MELBOURNE, AUSTRALIA

Degrees and diplomas

Course Guide

▶**2015**

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SWINBURNE
UNIVERSITY OF
TECHNOLOGY

swinburne.edu.au/international

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Helping you become
who you want to be

Students come first at Swinburne. We equip our students with the knowledge and capabilities they need to establish successful careers through high-quality teaching and industry-engaged learning.

Quality teaching

With a reputation for quality education and focused research, Swinburne attracts highly qualified academics and educational leaders who have industry experience in the areas they teach.

Career-ready graduates

Swinburne is known for its links with successful business and industry, and developing for international partnerships and collaborations. This local and international engagement ensures that our students graduate with valuable and sought-after skills employers value, which help graduates enter and get ahead in the workforce.

World-ranked university

Our rankings – top 400 in the world and top three in Melbourne by the 2013 Academic Ranking of World Universities – prove the success of our focus on and investment in research and research infrastructure. It is why we are leaders in science, technology, innovation, business and design.

A wide range of course options

Swinburne offers qualifications ranging from Foundation Studies, certificates, diplomas and bachelor degrees to master degrees and PhDs. These options allow you to choose courses and pathways to suit your individual interests and career aspirations.

Modern and safe campuses

Swinburne has campuses in the inner and eastern suburbs of Melbourne, one in the Melbourne CBD and one in Sarawak, Malaysia. We offer supportive, secure and peaceful environments with modern facilities. In 2014 we open the new Advanced Manufacturing and Design Centre, which is a symbol of the study opportunities, innovative thinking and dynamic campus life at Swinburne.

I hope to see you at Swinburne in 2015.

Professor Linda Kristjanson
Vice-Chancellor and President
Swinburne University of Technology

Studying in Melbourne

About Melbourne

Smart, captivating, multicultural, unique, fun, trend-setting, individual and welcoming, Melbourne is the capital city of Victoria and home to four million people.

In 2013 Melbourne was named the world's most liveable city by the Economist Intelligence Unit's Global Liveability Survey and is known as Australia's cultural, culinary and sporting capital. A mild climate, magnificent architecture, an extensive public transport network and beautiful parks and public spaces make living in Melbourne a great experience.

Hawthorn campus

John St, Hawthorn

Student population: 22,000

Distance from Melbourne city centre: 6 km (10 minutes by train)

Hawthorn is the main campus for international students. Our Hawthorn campus is an exciting place to study. Located on the edge of a vibrant local shopping and business area, it offers a range of facilities and services to help you balance the demands of study with your other interests.

Getting here

Glenferrie train station is practically on campus, making it easy to get to and from the city and surrounding suburbs. The Melbourne CBD is just 10 minutes away by train. Trams can also take you all the way to St Kilda beach. If public transport isn't an option, there's all-day, on-campus parking available, as well as ticketed parking off campus.

Study in a relaxed environment in a convenient location

Our Hawthorn campus is set directly behind Glenferrie Road. This vibrant shopping hub includes laneways and arcades where you can get a great coffee and find a quiet place to read.

There is a diverse choice of restaurants and cafés plus dozens of shops and boutiques, and a bookshop. Two supermarkets and a number of international grocers mean you'll never have to go far for the essentials.

From 2015 you'll also be able to visit Hawthorn's newest movie theatre, Lido Cinemas. The eight-cinema complex, including rooftop cinema, is currently under construction on Glenferrie Road.

Visit www.swinburne.edu.au/aroundswinburne to find out about the places students love on and around our campus.

Multimillion-dollar facilities

Major refurbishments and new infrastructure are a feature at our Hawthorn campus. The development of new buildings, renovation of existing buildings and landscaping enhance the study environment and education experience we offer our students.

Cutting-edge facilities include:

- the new $100 million Advanced Manufacturing and Design Centre (AMDC). It provides a purpose-built teaching and learning environment for design, business, engineering and information-technology students. The AMDC is also the new home of Swinburne's Design Factory, the first 'living lab' dedicated to design at an Australian university. The Design Factory model enables cross-discipline teams of students to work on research-led collaborations with external partners.
- the Advanced Technologies Centre, which features state-of-the-art laboratories and research and education facilities. It includes a 550-seat retractable lecture theatre, 40 high-tech learning spaces and the Smart Structures Laboratory – the only one of its kind in Australia – for leading-edge research in structural engineering.
- The George building, a multi-storey student services hub (named after university founder George Swinburne). It features study areas, a games room, prayer room, careers and employment and health services.

Other campuses

Wantirna campus

369 Stud Rd, Wantirna

Student population: 4100

Distance from Melbourne city centre: 25 km (60 minutes by train and bus)

Campus facilities include a library, a bookshop, a cafeteria, health and counselling services, computer labs and wireless internet. Selected courses are offered to international students at the Wantirna campus, including courses in business, design and ICT.

Croydon campus

12–50 Norton Rd, Croydon

Courses are not offered to international students at this campus.

Melbourne CBD campus

196 Flinders St, Melbourne

Courses are not offered to international students at this campus.

Flinders Street Station, Melbourne CBD.

Student life at Swinburne

Swinburne International

Staff at Swinburne International are responsible for the admission, orientation and support of all international students. They are your first point of contact when you arrive at Swinburne and provide ongoing support with your application, health insurance, accommodation, visas, course information and referrals to other services both on and off campus.

International student advisers provide advice and support to help international students adjust to life and study in Australia. They provide a comprehensive advisory and referral service to the many specialist services on and off campus covering both academic and pastoral care.

Visit www.swinburne.edu.au/international to find out more about the services available.

After-hours information hotline

Swinburne's after-hours hotline provides information to international students with medical, safety, environmental, mental health, accommodation, transport and other enquiries.

The service is available between 5pm and 9am on weekdays and is open 24 hours on weekends. The number is 1800 022 168.

For enquiries during business hours (9am to 5pm), contact Swinburne International.

Support for sponsored students

Swinburne International assists scholarship recipients and sponsoring agencies (such as governments, employers or other organisations) with administrative, reporting and financial arrangements, as well as a range of support services and programs.

Academic life

Modes of study

You will have the opportunity to participate in a variety of types of study depending on your chosen course. These may include lectures, workshops, tutorials, laboratory and studio sessions, group work, cross-discipline projects, case studies, practical sessions, discussion groups, online learning and research projects.

Assessment methods

At Swinburne, assessment takes various forms. You could be assessed through a combination of assignments, reports, examinations, class presentations, practicals, journal keeping, class participation and group projects.

Language and study skills services

Swinburne's language and academic skills advisers can help you to improve your English and study skills so you can achieve better results. You can attend free workshops, join a conversation group or make an individual appointment with an adviser.

Scholarships

International students may be eligible for a range of scholarships.

Visit www.swinburne.edu.au/international/scholarships for a list of available scholarships.

Wireless networking

Wi-fi access at Swinburne means that you can turn on your laptop or mobile phone at any time, anywhere within the coverage areas, and have access to the internet and university network.

Computer labs

Swinburne offers a number of PC labs to assist you in completing your assessments. The Hawthorn campus library provides a Late Lab, which offers 24-hour, seven-day-a-week access.

Libraries

As a Swinburne student you will have access to the extensive collection of resource material in any of our campus libraries. Resources available for student use include books, journals and other electronic resources. The libraries also have workstations, computers, printers, scanners and photocopiers for student use.

Campus life

Clubs and societies

There is a variety of Swinburne clubs and societies in which to get involved. Covering every social, religious, sporting, regional, political and cultural interest you can think of, there's bound to be something for you.

Events and activities

A full calendar of events and cultural activities – including trips to popular tourist destinations around Australia, free on-campus activities and social events – allows you to enjoy a balance between study and life, make new friends and experience the sights of Australia.

Sport and recreation

Gym facilities are available at the newly renovated Hawthorn Aquatic and Leisure Centre, a short walk from the Hawthorn campus. There are also several sporting clubs you can join.

Prayer room

Located in The George building, Swinburne's multi-faith prayer room can hold up to 400 people and is a place for students and staff to engage in communal reflection or individual meditation.

Counselling services

Swinburne students can access free counselling for any study, work, personal or relationship issues they are experiencing.

Health services

Friendly and accessible health services are available across all campuses, including free appointments with registered nurses (all campuses) and affordable appointments with doctors (Hawthorn campus).

Disability support services

Disability liaison officers can help to determine appropriate support services and develop an access plan for students.

Financial advice

Each of our campuses employs a financial adviser to assist students free of charge with managing budgets, student loans and other financial issues.

Legal advice

Swinburne provides access to free and confidential legal advice to students. The service encourages and supports students in solving their own legal and related problems.

Improving your job prospects

Swinburne offers a range of services and programs that extend beyond what you learn in the classroom to enhance your qualification and prepare you for your career.

Industry Engaged Learning

Industry Engaged Learning programs offer opportunities to learn from successful business and industry. Exposure to real workplace situations and projects helps develop the confidence, knowledge and skills to prepare you for your career.

Capstone Projects

Capstone Projects are professionally focused, practical team projects normally completed in your final year of a bachelor degree. Projects may be externally sourced industry or community projects, competitions or research-based projects.

Visit www.swinburne.edu.au/capstone

Careers in the Curriculum

Careers in the Curriculum is a compulsory careers education subject that is usually completed during the second year of a bachelor degree. This unit is designed to develop your career-planning and job-hunting skills to compete in the job market.

Visit www.swinburne.edu.au/cic

Student Leadership and Volunteer Program

The Student Leadership and Volunteer Program provides you with opportunities to contribute to the Swinburne community through leadership and volunteering roles. Volunteers develop practical experience and have opportunities to undertake training and obtain certifications in a number of fields.

Opportunities may include mentoring, events and activities hosted by the university or its faculties, or participation in academic panels and hearings.

Studying abroad

The cultural experience of international study offers you a personal growth opportunity: to develop insight, communication skills and a depth of understanding. There are several international study opportunities for both degree and diploma students, and your international study experience is usually credited towards your course.

Visit www.swinburne.edu.au/abroad

Professional Year Programs

Swinburne's Professional Year Programs are for international graduates seeking an additional pathway from university to employment in Australia. They provide valuable experience in the workplace to enhance your qualification.

Swinburne offers three Professional Year Programs:

- ACS Professional Year in Computer Science – delivered on behalf of the Australian Computing Society (ACS)
- Engineers Australia Professional Year in Engineering – delivered on behalf of Engineering Education Australia
- Skilled Migration Internship Program: Accounting – developed in conjunction with CPA Australia, the Institute of Chartered Accountants and the Institute of Public Accountants.

Students must have a Skilled – Graduate (Temporary) visa (subclass 485) or Bridging Visa A, plus a relevant bachelor or master degree.

Swinburne's Professional Year Programs have been approved by the Australian Department of Immigration and Border Protection.

Visit www.swinburne.edu.au/pyp

Careers and employment services

The Careers and Employment office has experienced careers counsellors who provide a range of free career services for current students and recent graduates.

The Careers and Employment office also offers a range of additional services to assist students with employment, including:

- résumé-checking
- interview practice sessions
- on-campus employment fairs
- job workshops.

Visit **www.swinburne.edu.au/careers**

SwinEmploy

SwinEmploy is an online job database that advertises professional, part-time and casual jobs. Once registered, students receive regular emails about jobs relevant to their study areas.

Degrees and double degrees

Swinburne's approach to learning puts you at the centre of everything we do. Our courses aim to give you the skills you need – not just the theory – so you'll have first-hand knowledge of what's needed when you start work. Our highly qualified teaching staff are experienced in the area they teach and use a number of innovative methods to promote understanding of your chosen area of study.

Undergraduate degrees

Swinburne degrees encourage independent learning and provide a supportive framework for you to successfully research, analyse and solve problems in your chosen field of study.

Flexible course structure

Our flexible course structure allows you to add depth and breadth to your degree by letting you choose from an extensive range of subjects from different disciplines.

Majors

Most three-year degrees at Swinburne comprise 24 units of study. You undertake most of these units in your primary area of study, which becomes your major.

Your major allows you to deepen your knowledge in a particular area. The number of units in a major may vary between degrees. For example, if you undertake a Bachelor of Business, you can major in accounting, advertising, finance, human resource management, marketing or management.

Minors

A minor is a set of units (shorter than a major) studied throughout a degree. The number of units in a minor may vary between courses.

Studying a minor will allow you to expand your career options by adding another area of expertise. You can also add depth to your qualification by studying units related to your major. For example, with a Bachelor of Business, you could major in management and undertake a minor in marketing, media or psychology.

Elective units

The remaining units that make up your degree are called elective units, which you can use to explore related or non-related areas of interest.

Depending on your course structure and timetable availability, you may be able to use these units to complete a double major, a major and a minor, or a major with two minors.

Honours

Many degrees offer an additional specialised honours (fourth) year. An honours year is intended to provide students who possess demonstrated academic ability with the opportunity to pursue their undergraduate studies at an advanced level. The honours course is highly valued by employers and serves as a recognised point of entry into postgraduate research studies.

Double degrees

Double degrees are a great way to broaden your study experience and are highly respected by employers. Double degrees combine two areas of study, and on completion you will be awarded two degrees. The duration of a double degree is generally only one year longer than a single degree.

Associate degrees

Swinburne's associate degrees are two-year qualifications based on hands-on skills and practical outcomes. They offer smaller class sizes and more support from teaching staff. These courses are designed to prepare you to start your career and also provide the opportunity to pathway into the third year of a related bachelor degree.

Swinburne pathways

Swinburne makes it easy to progress between different course levels.

Foundation Studies and UniLink diplomas

Foundation Studies and UniLink diplomas are designed to prepare you for direct entry to a bachelor degree at Swinburne. You'll enjoy smaller classes, more academic support and one-on-one time with your teachers.

All Foundation Studies and UniLink diplomas are delivered at the Hawthorn campus.

Visit www.swinburne.edu.au/college

Foundation Studies

Foundation Studies is a pre-university program for international students. It is designed to help students meet the entry requirements for university in Australia. Alternatively, students can progress from Foundation Studies to a UniLink diploma to prepare for entry into the second year of a bachelor degree.

Foundation Studies courses are available in business, design and science/engineering. They offer opportunities to progress to further study in arts, aviation, business, design, digital media, engineering, information technology, science and social sciences.

Swinburne's Foundation Studies programs meet the requirements for Foundation Programs that have been registered on CRICOS for delivery in Australia to overseas students, providing an academic preparation for students seeking entry to first-year undergraduate study or its equivalent.

They are standard programs of eight months duration. Each program is taught over two 14-week teaching periods and has a total of 720 scheduled contact hours.

The scheduled course contact hours are made up of the classes students are required to attend and their examinations. Classes can include laboratories, design studio work and excursions, depending on the Foundation Studies program students undertake.

UniLink diplomas

UniLink diplomas provide an alternative pathway to the second year of a range of bachelor degrees offered at Swinburne. The course content is similar to the first year of a bachelor degree, but classes are smaller and you have more one-on-one time with teachers and additional academic support.

UniLink diplomas are accredited, award-level higher education qualifications. UniLink diplomas are available in business, design, engineering and information technology.

Vocational education

Graduates of a TAFE advanced diploma or diploma can progress to a Swinburne undergraduate degree, subject to academic performance requirements. You'll receive credit for your studies, allowing you to advance to later stages of your chosen degree.

Most vocational courses are delivered at the Hawthorn campus.
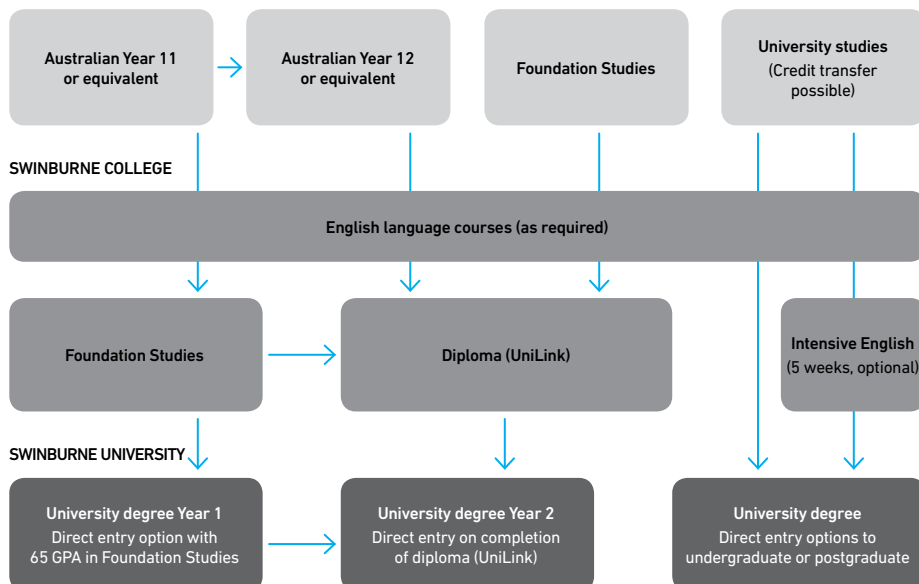
Diplomas and certificates

Diplomas and certificates focus on learning for work and aim to build the skills and technical expertise that make you employable. They offer independent learning with an emphasis on workplace and practical skills. There are more contact hours, smaller classes and more personal communication with your teachers.

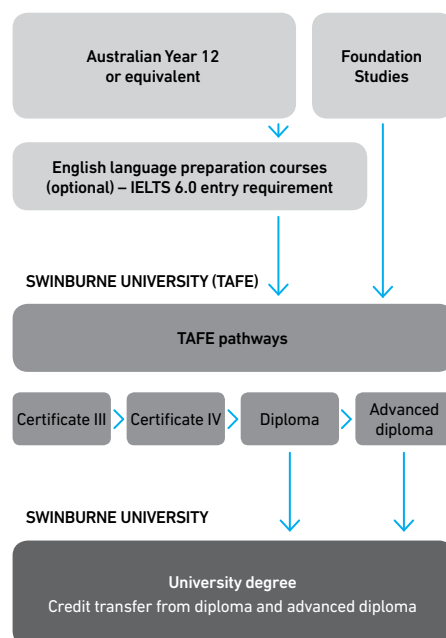Visit www.swinburne.edu.au/international/pathways

Your vocational pathway options

YOUR SCHOOLING

Australian Year 12 or equivalent → English language preparation courses (optional) – IELTS 6.0 entry requirement

Foundation Studies →

SWINBURNE UNIVERSITY (TAFE)

TAFE pathways

Certificate III → Certificate IV → Diploma → Advanced diploma

SWINBURNE UNIVERSITY

University degree
Credit transfer from diploma and advanced diploma

Your pathway options

YOUR SCHOOLING

Australian Year 11 or equivalent → Australian Year 12 or equivalent

Foundation Studies

University studies (Credit transfer possible)

SWINBURNE COLLEGE

English language courses (as required)

Foundation Studies → Diploma (UniLink)

Intensive English (5 weeks, optional)

SWINBURNE UNIVERSITY

University degree Year 1
Direct entry option with 65 GPA in Foundation Studies →

University degree Year 2
Direct entry on completion of diploma (UniLink)

University degree
Direct entry options to undergraduate or postgraduate

English language courses

English Language Intensive Courses for Overseas Students (ELICOS) give you the opportunity to learn from qualified teachers, interact in English in a multicultural environment and prepare for entry to other Swinburne programs.

Courses range from elementary to advanced levels. A new intake commences every five weeks, so you can start when it suits you. Course duration is between five and 50 weeks. The length of your course will depend on your current level of English and whether you want to continue with further study.

All English language courses are delivered at the Hawthorn campus.

General English

Elementary, Pre-intermediate and Intermediate

These courses will help you to improve your everyday English. They cover reading, writing, listening and speaking, punctuation and grammar.

Classes include:

- listening and oral communication skills
- grammar and vocabulary development
- supervised independent learning
- excursions and social activities.

English for Academic Purposes

Intermediate, Upper-intermediate and Advanced

These courses will prepare you for direct entry to Swinburne. They focus on the language, critical thinking and academic skills required in your further studies. Advanced-level classes focus on the language skills specific to your study area, including business, design, engineering and information technology.

You will develop skills in:

- academic writing
- academic reading, listening and note-taking
- communication and interaction in the academic environment
- oral presentations and seminar discussions
- research and library techniques.

Intensive English

Advanced

If you have already achieved the English language requirements for your course, we recommend that you complete this optional five-week intensive program. It is designed to refresh your English language skills and prepare you for academic transition in Australia before you begin your course.
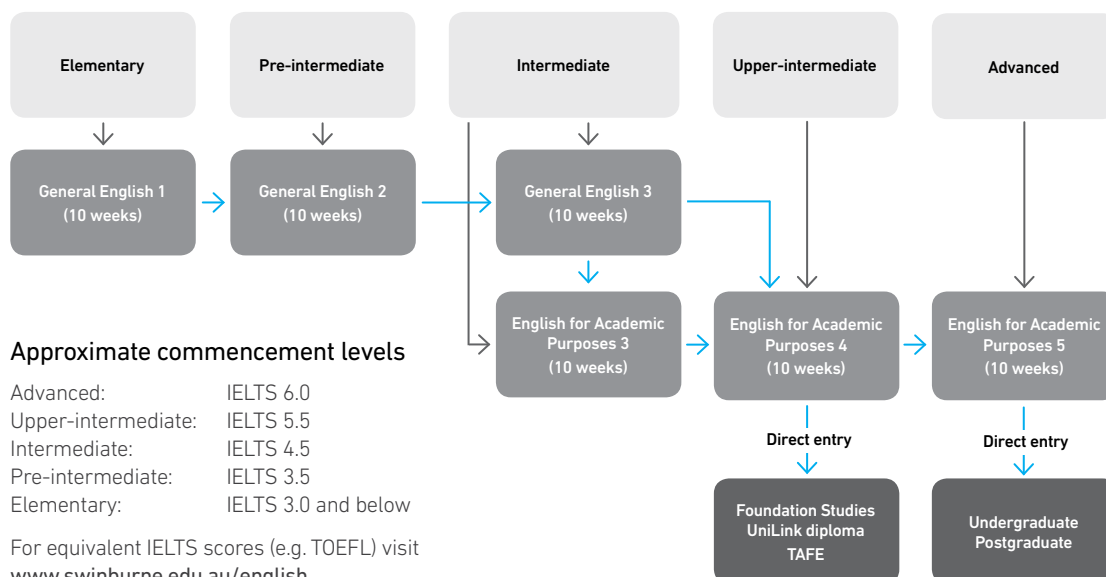
English Placement Test

You will need to take an English Placement Test before starting your ELICOS program. The test enables Swinburne College to assess your English language skills and place you at the appropriate level.

Direct entry to Swinburne

Students who successfully complete English for Academic Purposes to the required level can progress directly to their Swinburne course. Entry is subject to achieving the required results and all other conditions. English language requirements and other prerequisites for individual courses can vary.

Visit www.swinburne.edu.au/international/courses for specific course prerequisites.

English language course structure

Elementary	Pre-intermediate	Intermediate	Upper-intermediate	Advanced
General English 1 (10 weeks)	General English 2 (10 weeks)	General English 3 (10 weeks)		
		English for Academic Purposes 3 (10 weeks)	English for Academic Purposes 4 (10 weeks)	English for Academic Purposes 5 (10 weeks)
			Direct entry → Foundation Studies UniLink diploma TAFE	Direct entry → Undergraduate Postgraduate

Approximate commencement levels

Advanced: IELTS 6.0
Upper-intermediate: IELTS 5.5
Intermediate: IELTS 4.5
Pre-intermediate: IELTS 3.5
Elementary: IELTS 3.0 and below

For equivalent IELTS scores (e.g. TOEFL) visit www.swinburne.edu.au/english

→ Course entry
→ Pathway opportunity

Entry requirements

Students who do not meet the entry requirements for an undergraduate degree will automatically be considered for Foundation Studies or a UniLink diploma.

English language requirements

You may be required to sit one of the English language tests prescribed by the Australian Government's Department of Immigration and Border Protection, regardless of whether you meet the Swinburne entry requirements by other means.

The tables below detail the minimum requirements for entry into various levels of study at Swinburne.

Visit www.swinburne.edu.au/international/courses for details about English language requirements for specific courses.

Entry requirements for Foundation Studies

Entry to a Foundation Studies program requires students to have successfully completed Australian Year 11 or a comparable educational level and have an IELTS overall score of 5.5 (with no band below 5.5) or equivalent.

In most cases Swinburne will require that you provide final results, but may issue a conditional offer based on provisional results.

You must be at least 17 years of age at the time of commencing a Foundation Studies program.

Academic requirements

You must meet the minimum academic entry requirements to be accepted into your chosen course.

Visit www.swinburne.edu.au/international/apply/entry-requirements for details of academic entry requirements.

Non-European students

	IELTS (ACADEMIC MODULE)	TOEFL PAPER BASED	TOEFL INTERNET BASED	ENGLISH FOR ACADEMIC PURPOSES
Foundation Studies Certificate III/IV	Overall 5.5 (with no individual band below 5.5)	513 (minimum TWE 4.0)	65 (with no individual band below 15) Overall 65% (all skills 65% or above)	Swinburne College EAP level 4 (Upper-intermediate): 65%
UniLink diploma Diploma Advanced diploma	Overall 6.0 (with no individual band below 6.0)	537 (minimum TWE 4.5)	75 (with no individual band below 17) Overall 70% (all skills 65% or above)	Swinburne College EAP level 4 (Upper-intermediate): 70%
Undergraduate	Overall 6.5 (with no individual band below 6.0)	550 (minimum TWE 5.0)	79 (with no individual band below 18) Overall 70% (all skills 65% or above)	Swinburne College EAP level 5 (Advanced): 70%

Note: Results should be no more than two years old at the time of application.

European students

	DENMARK	GERMANY	NETHERLANDS	NORWAY	SWEDEN
Undergraduate	Studentereksamen grade 8 in English	Abitur minimum 3 in English and B in all sections of the DAAD language test	Voorbereidend Wetenschappeljik Onderwijs minimum 7 in English	Vitnemal den Videregaende Skole minimum 4 in English	VG in English

Visit www.swinburne.edu.au/international/english for more information about English language requirements.

Living in Melbourne

Melbourne is known for its restaurant scene, meandering laneways, exciting cafes and boutique shopping.

In the city centre you can explore grand, tree-lined streets and discover hidden laneways while experiencing first-class shopping, dining, theatre and entertainment options. A wide range of festivals are held throughout the year in the CBD, and you'll also find a number of cultural and arts venues such as the National Gallery of Victoria and the Australian Centre for the Moving Image.

Melbourne's inner-urban suburbs are also popular destinations: St Kilda offers beaches, clubs, bars and restaurants; Carlton has an Italian feel with coffee shops, pizzerias, bookshops and an arthouse cinema; Prahran is filled with trendy fashion boutiques; and Fitzroy has a bohemian vibe with unique shopping and dining options.

Living costs

Living costs will depend on the accommodation you choose and the lifestyle you lead, and as such all costs in this section are indicative only.

Students who are living and studying in Melbourne will require approximately A$23,000 to A$30,000 per year for ongoing living costs (not including tuition fees or airfares). Add to this a budget of approximately A$2300 to A$5000 for the initial costs of establishing yourself in Melbourne and approximately A$1000 to A$2000 if you need to purchase a computer.

Visit www.swinburne.edu.au/international/living-expenses

The Australian Government requires prospective student visa applicants and any family members accompanying them to have access to minimum funds to meet the living costs requirements.

Visit www.immi.gov.au/students for more information.

Accommodation

From the Residential College to student apartments, to off-campus rooms and houses, there is a range of housing options available.

Visit www.swinburne.edu.au/international/accommodation for more information.

Options in Hawthorn

Residential College and Apartments

The 84-bed student Residential College provides a safe and supportive on-campus environment. Accommodation in the Residential College costs between A$298 and A$313* per week per person, including gas, water, electricity and breakfast daily.

There are also 151 beds available in the two- and three-bedroom on-campus apartments. Apartments range from A$239 to A$285* per week per person, including gas, water and electricity.

UniLodge @ Swinburne Place

The 125 UniLodge designer apartments are fully furnished, including a TV and modern kitchens, plus a common room with a pool table and televisions, a laundry and an outdoor barbeque area. The apartments have security keycard access and CCTV surveillance.

Single-room studios and two-, three- and four-bedroom apartments are available, costing between A$233 and A$388* per week per person including gas, water and electricity.

UniLodge Vivida

The UniLodge Vivida complex comprises 194 fully furnished studio apartments. They feature ensuite bathrooms, security keycard access and CCTV surveillance, televisions and DVD players in each room, private balconies, and air-conditioning and dishwashers (selected apartments only). Common facilities include a rooftop garden and barbeque area, and laundry facilities. Apartments cost between A$220 and A$320* per week including water and gas.

*Prices listed are current for 2014. Visit www.swinburne.edu.au/housing for up-to-date accommodation costs.

Other options

Due to the varying nature of off-campus accommodation costs, all costs in this section should be taken as a guide only.

Private rental and share accommodation

You can choose to rent your own apartment, or share a rental house or apartment with other students. You can't pre-book share accommodation, so if you are seeking this type of accommodation we recommend you choose a short-term option for when you first arrive, then look for something to rent after you have settled in. Swinburne has a database of housing vacancies around each campus; visit www.swinburne.studystays.com.au to sign up as a future student.

The approximate cost of share accommodation is between A$140 and A$190 per week per person in the inner suburbs (including Hawthorn), or between A$110 and A$170 per week per person in the outer suburbs. This estimate does not include utilities (gas, electricity and water), which cost approximately A$25 per week. Setting up your own apartment or house will usually mean furnishing it, so you will also need to budget for that.

Living with an Australian family

Homestay is an opportunity for you to live with a local Australian resident or family. It is a great way to develop your English skills, make new friends and experience the Australian lifestyle.

You will live in a furnished bedroom as a guest in a home, with two meals a day provided from Monday to Friday, and three meals on weekends. The cost per week is A$280 for students aged over 18 years of age, and A$300 for students under 18 years of age.

A placement fee of A$240 and one month homestay payment must be paid prior to the placement commencing.

Visit www.swinburne.edu.au/international/homestay for more information.

How to apply

Follow these steps carefully to ensure your application is processed properly.

If you need assistance with your application you can email our application adviser at international@swinburne.edu.au

You can also speak with a registered Swinburne representative in your home country.

Visit www.swinburne.edu.au/international/representatives to view a list of Swinburne representatives.

1 **Choose the course that suits your interests and career goals**

- See pages 21–75 for course descriptions.
- Collect any documents you may require to apply to receive credit for previous study and/or experience.
- Visit www.swinburne.edu.au/international/courses to check application closing dates.

2 **Complete the application form**

- Visit www.swinburne.edu.au/international/apply to download a copy of the application form.
- Read the application form carefully and provide all of the required documents so we can assess your application.
- Complete the credit transfer section on the form if you wish to apply for credit.
- Sign the declaration.

3 **Attach additional required documents (if applicable) to your application form**

These documents include:
- certified academic transcripts with grading system
- English translations where applicable
- certified English proficiency test results
- referee reports (if applicable)
- portfolio (for some design programs)
- course or unit syllabus if you are applying for exemptions (e.g. credit transfer or Recognition of Prior Learning)
- copy of passport (photo page and relevant visa page, if applicable).

4 **Submit your application form and required documents**

You can send your completed application form along with relevant documents to your registered Swinburne representative or send it directly to Swinburne at:

Swinburne International
PO Box 218
HAWTHORN VIC 3122
AUSTRALIA

Email: international@swinburne.edu.au
Fax: +61 3 9818 3648

5 **Receive your offer via email**

Swinburne will assess your application. If you are successful you will receive a letter of offer via email.

Note: If you receive a conditional offer, you will be required to meet the condition(s) outlined in your offer letter.

Applying for credit transfer

What is credit transfer?

Credit transfer is exemption from certain course requirements in recognition for previous study and/or experience. The term 'credit' is used interchangeably with 'Recognition of Prior Learning', 'advanced standing' and/or 'status' in Australian universities.

How to apply for credit transfer

You can apply for credit transfer by submitting a course or unit (subject) syllabus or other evidence of your skills with your application. You must also indicate on your application form that you are applying for credit transfer.

If you are applying for credit transfer for a design course you may need to submit a portfolio.

If your application for credit transfer is successful, your letter of offer will state the updated course duration and the amount of credit for which you have been assessed. If you do not apply for credit transfer when you submit your application, you can do so within the first week of commencing your course. Applications for credit transfer made after this time may not be approved.

Accepting your offer

If your application is successful, you will receive a letter of offer to study at Swinburne. The offer will indicate:

- the course you have been offered
- the annual tuition fee
- the course commencement date
- the duration of the course
- the deposit to be paid
- the fee for your visa-length overseas student health cover
- any conditions to the offer
- any additional information relevant to your course.

Visit www.swinburne.edu.au/international/accept to read this information.

Other information

Applying for your student visa

You will need to obtain an Overseas Student Confirmation of Enrolment (CoE) from Swinburne to complete your student visa application. Your CoE must accompany your application to the Department of Immigration and Border Protection or Australian diplomatic mission in your country.

Visit www.immi.gov.au for more information.

Students under 18

If you are under 18 years of age, your parents must nominate a guardian who lives in Australia before you can be considered for a student visa. Your guardian must be over 21 years old, related to you and of good character.

If you do not have an appropriate guardian with whom you may live in Australia, you will need to engage a Swinburne-approved care provider This arrangement will include accommodation restrictions and places may be limited depending on the availability of suitable accommodation options.

Note: Some courses are not available to students who are under 18 years of age.

Overseas student health cover

All student-visa holders must have overseas student health cover (OSHC) for the duration of their study.

Swinburne will arrange your visa-length OSHC membership with our preferred provider, OSHC Worldcare. The OSHC fee will be included with your deposit indicated in your letter of offer.

Visa-length OSHC membership is a once-only payment that provides rate protection for the duration of the visa. This means that even if OSHC fees increase during the duration of your visa, you do not have to pay any increase.

If you need to extend your OSHC (for example, if you fail some units and need to extend your stay in Australia to complete your course), it is your responsibility to do this directly with the OSHC provider.

Exceptions apply to Norwegian students insured under the Norwegian National Insurance Scheme (NIS) and Swedish students with health insurance provided by CSN International (the Swedish National Board of Student Aid). Please include evidence with your application if you are covered under one of these programs.

Visit www.swinburne.edu.au/international/ arrival/health-cover

Students with families

If you plan to bring your family to Australia, check if any restrictions apply by contacting the Department of Immigration and Border Protection or the Australian diplomatic mission in your country. You will also need to obtain OSHC membership for your family.

Children

If you have children between five and 15 years of age who you plan to bring to Australia, you must enrol them in school. Full fees are payable at both government and non-government schools.

If you will be enrolled as a postgraduate research student at Swinburne, the Victorian Government may provide exemption from tuition fees in Victorian government primary and secondary schools for your children.

Visit www.education.vic.gov.au to find a complete list of Victorian primary and secondary schools. Information about fees, applications and enrolment for government, primary and secondary schools may be found online at www.study.vic.gov.au

Applications to non-government schools must be made directly to the school of your choice.

Note: Your student visa assessment criteria may change if your family is accompanying you to Australia.

Your rights and responsibilities

The Educational Services for Overseas Students (ESOS) Act regulates the education and training sector's involvement with overseas students studying in Australia on student visas.

Visit www.swinburne.edu.au/international/ esos-framework to read a description of the ESOS framework.

Restrictions may apply if you wish to change your enrolment. Visit www.swinburne.edu.au/ international/enrolment-change for more information about deferring, suspending or cancelling your enrolment.

Visit www.swinburne.edu.au/international/ apply/after-you-apply/accept-offer to read Swinburne's refund provisions, which are outlined in the offer acceptance form.

Swinburne's Sarawak campus

Swinburne in Malaysia

Swinburne's Sarawak campus is located in Kuching, the capital city of Sarawak, East Malaysia. The campus operates in partnership with the Sarawak Foundation and the Sarawak Higher Education Foundation.

The campus was established in 2000 to provide Swinburne students with international living, working and learning opportunities. The 16.5-acre campus is 15 minutes from the city centre and is close to commercial areas.

Our Sarawak campus features custom-designed buildings for the schools of business and enterprise, engineering and science, and computing and design. The buildings house a lecture theatre and lecture halls, engineering workshops, computer and research labs, a state-of-the-art digital resource centre, auditorium, multipurpose hall, cafeterias, student lounge and sporting facilities.

About Sarawak

Sarawak is located in the heart of South-East Asia, nestled between Peninsula Malaysia to the west and Indonesia to the south and east. Comprising one-third of the island of Borneo, Sarawak has emerged as a premier tourist attraction in the region, promoting its richness in nature and adventure. Its rainforests are among the oldest in the world, boasting the Rafflesia (a flower the size of a coffee table), snakes that 'fly', bearded monkeys and orang-utans.

As the largest state in the country with a population of 2.3 million, Sarawak is also the most culturally diverse. Its 29 ethnic communities are renowned for their friendliness and hospitality.

What you can study

Courses offered at our Sarawak campus are almost identical to those offered at our Australian campuses. Disciplines currently taught include:

- business – accounting, human resource management, international business, marketing, management and finance
- design – graphic design and multimedia design
- engineering – civil, electrical and electronic, mechanical, robotics and mechatronics, and telecommunication and network engineering
- IT – computer science and software engineering, information systems, and information and communication technologies
- science – biotechnology.

More information

Visit www.swinburne.edu.my for information about Sarawak courses, fees and entry requirements.

Degrees and diplomas

COURSE	CAMPUS	DURATION	INTAKE	2015 INDICATIVE COURSE FEE#	PREREQUISITE SUBJECTS	PAGE
ARTS AND SOCIAL SCIENCES						
Bachelor of Arts	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	24
Bachelor of Arts (International Studies)	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	24
Bachelor of Arts (International Studies and Chinese)	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	24
Bachelor of Arts (International Studies and Italian)	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	24
Bachelor of Arts (International Studies and Japanese)	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	24
Bachelor of Arts (Security and Counter Terrorism)	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	24
Bachelor of Arts/Bachelor of Business	Hawthorn	4 years	Mar, Aug	A$22,630 annual	Nil	25
Bachelor of Arts/Bachelor of Science	Hawthorn	4 years	Mar, Aug	A$26,070 annual	Nil	25
Bachelor of Social Science	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	26
Bachelor of Social Science (Security and Counter Terrorism)	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	26
AVIATION						
Bachelor of Aviation	Hawthorn	3 years	Mar	A$29,270 annual plus flying school fees[a]	AM	28
Bachelor of Aviation/Bachelor of Business	Hawthorn	4 years	Mar	A$29,270 annual plus flying school fees[a]	AM	28
Bachelor of Aviation (Management)	Hawthorn	3 years	Mar, Aug	A$29,270 annual	MA	28
Bachelor of Aviation (Management)/Bachelor of Business	Hawthorn	4 years	Mar, Aug	A$29,270 annual	MA	28
BUSINESS AND MANAGEMENT						
Swinburne College Foundation Studies (Business)	Hawthorn	8 months	Feb, Jun, Oct	A$17,950 total	Nil	30
Diploma of Business (UniLink)	Hawthorn	8 months	Feb, Jun, Oct	A$20,650 total	Nil	30
Certificate IV in Accounting	Hawthorn	6 months	Mar, Aug	A$6850 total	Nil	30
Certificate IV in Business	Hawthorn	6 months	Mar, Aug	A$6850 total	Nil	31
Certificate IV in International Trade	Hawthorn	6 months	Mar, Aug	A$6850 total	Nil	31
Certificate IV in Marketing	Hawthorn	6 months	Mar, Aug	A$6850 total	Nil	32
Diploma of Accounting	Hawthorn	6 months	Mar, Aug	A$6850 total	Nil	30
Diploma of Business	Hawthorn	6 months	Mar, Aug	A$6850 total	Nil	31
Diploma of Events	Hawthorn	1 year	Mar	A$13,700 total	Nil	31
Diploma of International Business	Hawthorn	6 months	Mar, Aug	A$6850 total	Nil	31
Diploma of Marketing	Hawthorn	6 months	Mar, Aug	A$6850 total	Nil	32
Advanced Diploma of Accounting	Hawthorn	6 months	Mar, Aug	A$6850 total	Nil	30
Advanced Diploma of Events	Hawthorn	6 months	Mar	A$6850 total	Nil	31
Associate Degree of Business Administration	Hawthorn	2 years	Mar, Aug	A$22,630 annual	Nil	33
Bachelor of Business	Hawthorn	3 years	Mar, Aug	A$22,630 annual	Nil	32
Bachelor of Business (Accounting)	Hawthorn	3 years	Mar, Aug	A$22,630 annual	Nil	32
Bachelor of Business (Accounting and Finance)	Hawthorn	3 years	Mar, Aug	A$22,630 annual	Nil	32
Bachelor of Business (Advertising)	Hawthorn	3 years	Mar, Aug	A$22,630 annual	Nil	32
Bachelor of Business (Commercial Law)	Hawthorn	3 years	Mar, Aug	A$22,630 annual	Nil	32
Bachelor of Business (Entrepreneurship and Innovation)	Hawthorn	3 years	Mar, Aug	A$22,630 annual	Nil	32
Bachelor of Business (Finance)	Hawthorn	3 years	Mar, Aug	A$22,630 annual	Nil	32
Bachelor of Business (Human Resource Management)	Hawthorn	3 years	Mar, Aug	A$22,630 annual	Nil	32
Bachelor of Business (International Business)	Hawthorn	3 years	Mar, Aug	A$22,630 annual	Nil	32
Bachelor of Business (Management)	Hawthorn	3 years	Mar, Aug	A$22,630 annual	Nil	32
Bachelor of Business (Marketing)	Hawthorn	3 years	Mar, Aug	A$22,630 annual	Nil	32
Bachelor of Business (Public Relations)	Hawthorn	3 years	Mar, Aug	A$22,630 annual	Nil	32
Bachelor of Business (Tourism Management)	Hawthorn	3 years	Mar, Aug	A$22,630 annual	Nil	32

Degrees and diplomas (continued)

COURSE	CAMPUS	DURATION	INTAKE	2015 INDICATIVE COURSE FEE#	PREREQUISITE SUBJECTS	PAGE
BUSINESS AND MANAGEMENT (CONTINUED)						
Bachelor of Business/Bachelor of Communication	Hawthorn	4 years	Mar, Aug	A$22,630 annual	Nil	33
Bachelor of Business/Bachelor of Social Science	Hawthorn	4 years	Mar, Aug	A$22,630 annual	Nil	33
DESIGN						
Swinburne College Foundation Studies (Design)	Hawthorn	8 months	Feb, Jun, Oct	A$19,200 total	Nil	36
Diploma of Design (UniLink)	Hawthorn	8 months	Feb, Jun, Oct	A$20,650 total	Any art, design or media subject	36
Certificate IV in Design	Hawthorn, Wantirna	1 year	Mar	A$16,500 total	Nil	36
Diploma of Graphic Design	Hawthorn, Wantirna	1.5 years	Mar	A$16,500 annual	Folio	37
Diploma of Interior Design and Decoration	Hawthorn	1.5 years	Mar	A$16,500 annual	Nil	37
Bachelor of Design (Communication Design)	Hawthorn	3 years	Mar, Aug	A$25,282 annual	Any art, design or media subject	37
Bachelor of Design (Communication Design) (Honours)	Hawthorn	4 years	Mar	A$25,282 annual	Any art, design or media subject	38
Bachelor of Design (Communication Design)/Bachelor of Business	Hawthorn	4 years	Mar, Aug	A$25,282 annual	Any art, design or media subject	37
Bachelor of Design (Digital Media Design)	Hawthorn	3 years	Mar, Aug	A$25,282 annual	Nil	38
Bachelor of Design (Industrial Design)	Hawthorn	4 years	Mar, Aug	A$25,282 annual	Any art, design or media subject	38
Bachelor of Design (Interior Architecture)	Hawthorn	4 years	Mar, Aug	A$25,282 annual	Any art, design or media subject	39
DIGITAL MEDIA						
Certificate IV in Digital and Interactive Games	Hawthorn	1 year	Mar	A$14,990 total	Nil	42
Certificate IV in Digital Media Technologies specialising in Multimedia	Hawthorn	1 year	Mar	A$14,990 total	Nil	42
Diploma of Digital and Interactive Games	Hawthorn	1 year	Mar	A$14,990 total	Nil	42
Diploma of Digital Media Technologies	Hawthorn	1 year	Mar	A$14,990 total	Nil	42
Bachelor of Arts (Digital Media)	Hawthorn	3 years	Mar, Aug	A$24,230 annual	Nil	42
Bachelor of Arts (Games and Interactivity)	Hawthorn	3 years	Mar, Aug	A$24,230 annual	Nil	43
Bachelor of Arts (Games and Interactivity)/Bachelor of Computer Science	Hawthorn	4 years	Mar, Aug	A$24,230 annual	MA	43
ENGINEERING						
Swinburne College Foundation Studies (Science/Engineering)	Hawthorn	8 months	Feb, Jun, Oct	A$19,200 total	Nil	46
Diploma of Engineering (UniLink)	Hawthorn	8 months	Feb, Jun, Oct	A$23,100 total	AM	46
Advanced Diploma of Electronics and Communications Engineering	Hawthorn	2 years	Mar, Aug	A$15,950 annual plus materials feeᵇ	MA	47
Advanced Diploma of Engineering Technology specialising in Civil Engineering, Mechanical Engineering, and Robotics and Mechatronics	Hawthorn	2 years	Mar, Aug	A$15,950 annual	MA	47
Advanced Diploma of Engineering Technology – Electrical specialising in Industrial Automation and Control	Hawthorn	2 years	Mar, Aug	A$15,950 annual	MA	46
Bachelor of Engineering (Biomedical) (Honours)	Hawthorn	4 years	Mar, Aug	A$28,310 annual	AM	47
Bachelor of Engineering (Civil) (Honours)	Hawthorn	4 years	Mar, Aug	A$28,310 annual	AM	48
Bachelor of Engineering (Civil) (Honours)/Bachelor of Business	Hawthorn	5 years	Mar, Aug	A$28,310 annual	AM	48
Bachelor of Engineering (Construction) (Honours)	Hawthorn	4 years	Mar, Aug	A$28,310 annual	AM	48
Bachelor of Engineering (Electrical and Electronic) (Honours)	Hawthorn	4 years	Mar, Aug	A$28,310 annual	AM	48
Bachelor of Engineering (Electrical and Electronic) (Honours)/Bachelor of Business	Hawthorn	5 years	Mar, Aug	A$28,310 annual	AM	48
Bachelor of Engineering (Electronics and Computer Systems) (Honours)	Hawthorn	4 years	Mar, Aug	A$28,310 annual	AM	49

COURSE	CAMPUS	DURATION	INTAKE	2015 INDICATIVE COURSE FEE#	PREREQUISITE SUBJECTS	PAGE
ENGINEERING (CONTINUED)						
Bachelor of Engineering (Electronics and Computer Systems) (Honours)/Bachelor of Business	Hawthorn	5 years	Mar, Aug	A$28,310 annual	AM	49
Bachelor of Engineering (Electronics and Computer Systems) (Honours)/Bachelor of Computer Science	Hawthorn	5 years	Mar, Aug	A$28,310 annual	AM	49
Bachelor of Engineering (Mechanical) (Honours)	Hawthorn	4 years	Mar, Aug	A$28,310 annual	AM	49
Bachelor of Engineering (Mechanical) (Honours)/ Bachelor of Business	Hawthorn	5 years	Mar, Aug	A$28,310 annual	AM	49
Bachelor of Engineering (Product Design) (Honours)	Hawthorn	4 years	Mar, Aug	A$28,310 annual	AM	50
Bachelor of Engineering (Robotics and Mechatronics) (Honours)	Hawthorn	4 years	Mar, Aug	A$28,310 annual	AM	50
Bachelor of Engineering (Robotics and Mechatronics) (Honours)/Bachelor of Business	Hawthorn	5 years	Mar, Aug	A$28,310 annual	AM	50
Bachelor of Engineering (Robotics and Mechatronics) (Honours)/Bachelor of Computer Science	Hawthorn	5 years	Mar, Aug	A$28,310 annual	AM	50
FILM AND TELEVISION						
Diploma of Screen and Media specialising in Digital Media Animation	Hawthorn	1 year	Mar	A$16,500 total	Nil	52
Diploma of Screen and Media specialising in Film and Television	Hawthorn	1 year	Mar	A$16,500 total	Folio	52
Advanced Diploma of Screen and Media specialising in Digital Media Animation	Hawthorn	1 year	Mar	A$16,500 total	Nil	52
Advanced Diploma of Screen and Media specialising in Film and Television	Hawthorn	1 year	Mar	A$16,500 total	Nil	52
Bachelor of Film and Television	Hawthorn	3 years	Mar	A$26,430 annual	Nil	53
Bachelor of Film and Television (Animation)	Hawthorn	3 years	Mar	A$26,430 annual	Nil	52
HEALTH SCIENCES AND COMMUNITY CARE						
Associate Degree of Health and Community Care	Hawthorn[c]	2 years	Mar, Aug	A$21,230 annual	Nil	56
Bachelor of Community Health	Hawthorn[c]	3 years	Mar, Aug	A$21,230 annual	Nil	56
Bachelor of Health Science	Hawthorn	3 years	Mar, Aug	A$26,070 annual	Nil	56
Bachelor of Health Science (Public and Environmental Health)	Hawthorn	3 years	Mar, Aug	A$26,070 annual	MA	57
INFORMATION AND COMMUNICATION TECHNOLOGIES						
Diploma of Information Technology (UniLink)	Hawthorn	8 months	Feb, Jun, Oct	A$20,650 total	Nil	60
Certificate IV in Computer Systems Technology	Hawthorn	1 year	Mar	A$14,990 total	Nil	60
Certificate IV in Information Technology Networking	Hawthorn	1 year	Mar	A$14,990 total	Nil	60
Diploma of Information Technology Networking	Hawthorn	1 year	Mar	A$14,990 total	Nil	60
Advanced Diploma of Computer Systems Technology	Hawthorn	1 year	Mar	A$14,990 total	Nil	60
Bachelor of Applied Information and Communication Technology	Hawthorn	3 years	Mar	A$23,750 annual	Nil	62
Bachelor of Business Information Systems	Hawthorn	3 years	Mar, Aug	A$23,750 annual	Nil	61
Bachelor of Business Information Systems/Bachelor of Business	Hawthorn	4 years	Mar, Aug	A$23,750 annual	Nil	61
Bachelor of Computer Science	Hawthorn	3 years	Mar, Aug	A$23,750 annual	MA	61
Bachelor of Computer Science (Games Development)	Hawthorn	3 years	Mar, Aug	A$23,750 annual	MA	61
Bachelor of Engineering (Software Engineering) (Honours)	Hawthorn	4 years	Mar, Aug	A$28,310 annual	AM	63
Bachelor of Engineering (Telecommunication and Network Engineering) (Honours)	Hawthorn	4 years	Mar, Aug	A$28,310 annual	AM	63
Bachelor of Engineering (Telecommunication and Network Engineering) (Honours)/Bachelor of Business	Hawthorn	5 years	Mar, Aug	A$28,310 annual	AM	63
Bachelor of Engineering (Telecommunication and Network Engineering) (Honours)/Bachelor of Computer Science	Hawthorn	5 years	Mar, Aug	A$28,310 annual	AM	63

Degrees and diplomas (continued)

COURSE	CAMPUS	DURATION	INTAKE	2015 INDICATIVE COURSE FEE#	PREREQUISITE SUBJECTS	PAGE
INFORMATION AND COMMUNICATION TECHNOLOGIES (CONTINUED)						
Bachelor of Information and Communication Technology	Hawthorn	3 years	Mar, Aug	A$23,750 annual	MA	62
Bachelor of Information and Communication Technology (Network Design and Security)	Hawthorn	3 years	Mar, Aug	A$23,750 annual	MA	62
MEDIA AND COMMUNICATIONS						
Bachelor of Arts (Journalism)	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	66
Bachelor of Arts (Media and Communication)	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	67
Bachelor of Communication	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	66
Bachelor of Communication (Advertising)	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	66
Bachelor of Communication (Media Studies)	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	66
Bachelor of Communication (Public Relations)	Hawthorn	3 years	Mar, Aug	A$21,230 annual	Nil	66
PSYCHOLOGY						
Bachelor of Arts (Psychology)	Hawthorn	3 years	Mar, Aug	A$26,110 annual	Nil	70
Bachelor of Arts (Psychology and Forensic Science)	Hawthorn	3 years	Mar, Aug	A$26,110 annual	Nil	70
Bachelor of Arts (Psychology and Psychophysiology)	Hawthorn	3 years	Mar, Aug	A$26,110 annual	MA	71
Bachelor of Arts (Psychology and Sport Science)	Hawthorn	3 years	Mar, Aug	A$26,110 annual	Nil	71
Bachelor of Science (Psychology)	Hawthorn	3 years	Mar, Aug	A$26,110 annual	MA	70
Bachelor of Science (Psychology and Psychophysiology)	Hawthorn	3 years	Mar, Aug	A$26,110 annual	MA	71
Bachelor of Social Science (Psychology)	Hawthorn	3 years	Mar, Aug	A$26,110 annual	Nil	70
Bachelor of Social Science (Psychology and Forensic Science)	Hawthorn	3 years	Mar, Aug	A$26,110 annual	Nil	70
Bachelor of Social Science (Psychology and Sport Science)	Hawthorn	3 years	Mar, Aug	A$26,110 annual	Nil	71
SCIENCE						
Swinburne College Foundation Studies (Science/Engineering)	Hawthorn	8 months	Feb, Jun, Oct	A$19,200 total	Nil	74
Bachelor of Science	Hawthorn	3 years	Mar, Aug	A$26,070 annual	MA	74
Bachelor of Science (Applied Mathematics)	Hawthorn	3 years	Mar, Aug	A$26,070 annual	MA	74
Bachelor of Science (Biochemistry and Chemistry)	Hawthorn	3 years	Mar, Aug	A$26,070 annual	MA	74
Bachelor of Science (Biomedical Science)	Hawthorn	3 years	Mar, Aug	A$26,070 annual	MA	74
Bachelor of Science (Biotechnology)	Hawthorn	3 years	Mar, Aug	A$26,070 annual	MA	74
Bachelor of Science (Chemistry)	Hawthorn	3 years	Mar, Aug	A$26,070 annual	MA	74
Bachelor of Science (Environmental Science)	Hawthorn	3 years	Mar, Aug	A$26,070 annual	MA	74
Bachelor of Science (Physics)	Hawthorn	3 years	Mar, Aug	A$26,070 annual	MA	74

Notes

*For information about prerequisite subjects, visit www.swinburne.edu.au/international/apply/entry-requirements

#The indicative course fees detailed in this publication relate to 2015 only. They are based on a standard study load per year. Note that fees are assessed according to a student's study load in each semester, and variation to study load will result in an adjustment to tuition fees. All fees are subject to annual review and may be adjusted.

(a) Additional fees apply for flying school; see course description for details.
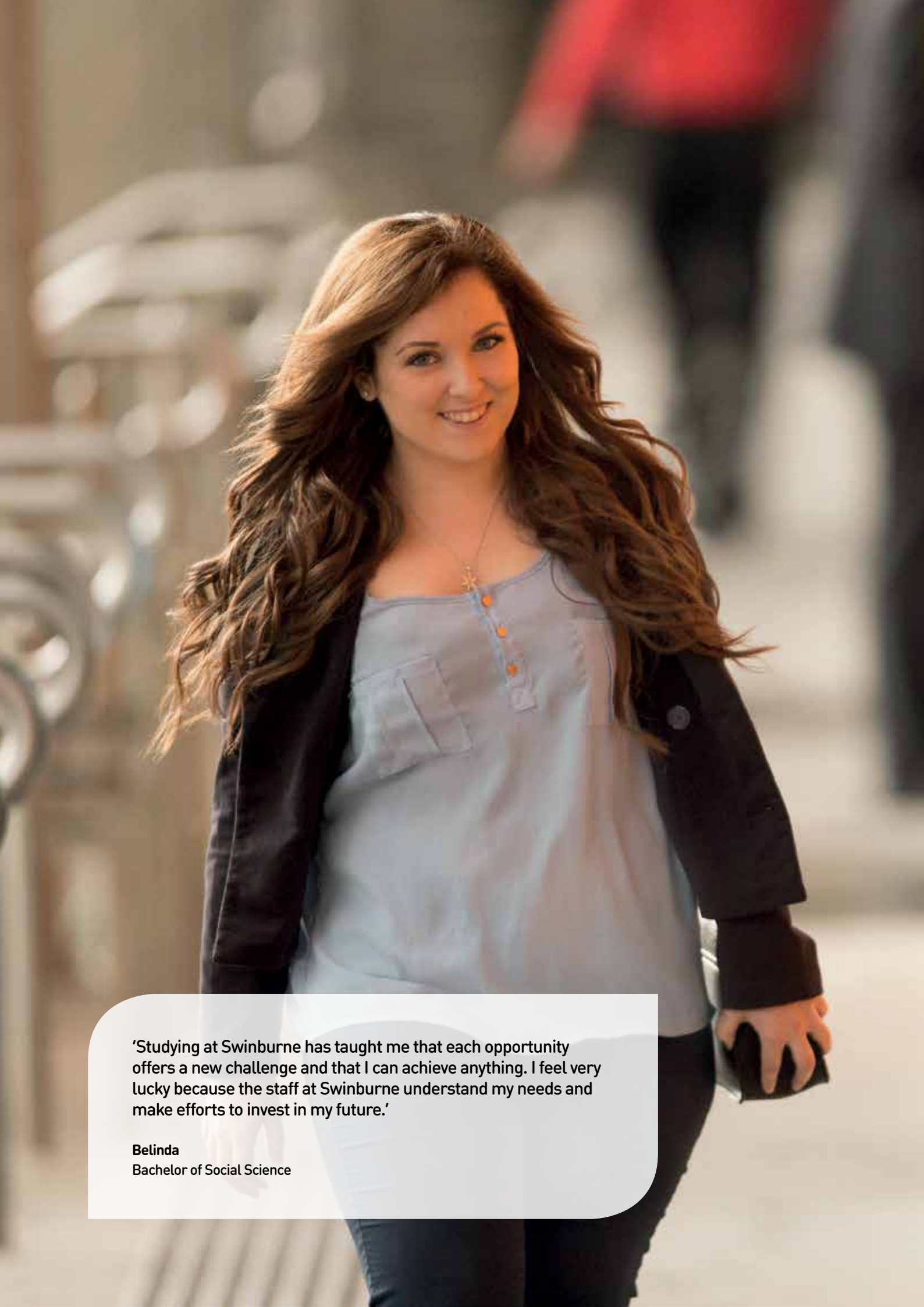
(b) Materials fee is approximately A$250.

(c) Students may be required to attend more than one campus and some units may be available online.

Additional costs

Tuition fees do not include minor equipment costs that may be incurred as part of your course (e.g. statistics calculators, some design equipment, etc). Contact us via email at international@swinburne.edu.au for details.

▶ Course information

'Studying at Swinburne has taught me that each opportunity offers a new challenge and that I can achieve anything. I feel very lucky because the staff at Swinburne understand my needs and make efforts to invest in my future.'

Belinda
Bachelor of Social Science

Arts and Social Sciences▸

Studying arts and social sciences is a great choice if you're interested in discovering why different things drive different people, learning about human interaction and behaviour, or exploring the connections between social science and communication.

Whether through literature, politics or health, you'll have the opportunity to examine people and their environments, and to gain the research, analytical and communication skills to build a career.

Make connections with industry

Your arts and social sciences degree can take you beyond the classroom to engage with industry and better prepare you for your career.

Final-year projects, called Capstone Projects, engage students from across multiple disciplines and allow you to put your learning into practice. You could contribute to an industry or community project, competition submission, research-based project or internally developed project.

Finding the right course

An arts and social sciences course could be right for you if your interests include:

- news media
- understanding what motivates people
- writing
- blogging, the internet and social media
- social justice
- social groups and interactions
- the human mind and human behaviour
- history
- politics
- philosophy
- researching ideas and theories.

These courses can lead to careers such as:

- advertising coordinator
- art director
- community worker
- copywriter
- criminologist
- editor
- journalist
- marketing professional
- media officer
- policy analyst
- psychologist
- social researcher
- social worker
- sociologist
- teacher
- writer.

University degrees

Arts

▶ Bachelor of Arts

Campus: Hawthorn
Duration: Three years
Intake: March, August

This degree aims to provide students with a range of options for gaining a general understanding of contemporary social and cultural developments, as well as specialised knowledge in their chosen area(s) of study. The course seeks to enable students to develop analytical, communication and research skills that will facilitate their personal and professional development. This flexibility is designed to equip students for a wide range of careers.

Swinburne also offers an honours (fourth) year for this degree.

Major study areas

Chinese: This major offers students the skills and knowledge to work in, or in association with, organisations in China. They study the structure, grammar, phonetics and phonology of a language at beginner or advanced level to become prepared for a range of specialist and general business professions.

Cinema and Screen Studies: In this major students study moving-image traditions and theories. They have the opportunity to develop screen-specific research and writing skills, and to become prepared for roles in media organisations and across a range of creative industries.

Cultural Studies: This major focuses on the nature of culture and its transformations. Students have the opportunity to gain a foundation in the theoretical debates taking place within cultural studies and may choose to complete units addressing a range of interest areas, including literature and film as cultural phenomena; cultural politics; the problematic relationship between cultures in a globalised world; the problems associated with the disintegration of traditional cultures and the search for new foundations for beliefs; and science and philosophy as cultural phenomena.

Digital Media: This major takes a comprehensive approach to digital media production. It emphasises practical skills and creative techniques, and aims to equip students with a solid theoretical foundation. Students learn about web development and programming, digital imaging, digital video and audio, radio production, 3D modelling, experience design, information architecture, interactive narrative and multimedia technology.

Students who complete this major and other degree requirements may graduate with a Bachelor of Arts (Digital Media).

Digital Media and Marketing: This major aims to provide students with comprehensive skills in the principles and practice of marketing, as well as the applied and creative aspects of digital media production. An emphasis on digital marketing is complemented by a thorough grounding in relevant areas of web development, video production, audio production, digital imaging, experience design, information architecture and 3D modelling.

Games and Interactivity: This major focuses on the role of games in contemporary society and how games are developing as a cultural industry. Students develop a portfolio of analog and digital game projects that develop practical and creative research and communication skills in a games lab environment.

Students who complete this major and other degree requirements may graduate with a Bachelor of Arts (Games and Interactivity).

International Studies: This major is designed to prepare students for a range of professions in an increasingly globalised world. Students learn about the political, cultural, economic and social contexts of global issues.

Students who complete this major and other degree requirements may graduate with a Bachelor of Arts (International Studies).

International Studies and Chinese: In this major students combine studies in Mandarin with units that explore the political, cultural, economic and social contexts of global issues. Students are introduced to the Mandarin language and learn about modern Chinese history and culture.

Students who complete this major and other degree requirements may graduate with a Bachelor of Arts (International Studies and Chinese).

International Studies and International Business: This major is designed to prepare students for a range of professions in an increasingly globalised world. Students learn about the political, cultural, economic and social contexts of global issues. The major engages a range of disciplines, including politics, studies in security and counter terrorism, sociology, philosophy, history, international business and languages, to develop in students a core understanding of global issues and relations in an international business context.

International Studies and Italian: In this major students combine studies in Italian with units that explore the political, cultural, economic and social contexts of global issues. Students learn how to communicate in the Italian language and about modern Italian history and culture. The Italian language component is offered at both beginner and advanced levels.

Students who complete this major and other degree requirements may graduate with a Bachelor of Arts (International Studies and Italian).

International Studies and Japanese: In this major students combine studies in Japanese with units that explore the political, cultural, economic and social contexts of global issues. Students learn how to communicate in Japanese and about modern Japanese history and culture. The Japanese language component is offered at both beginner and advanced levels.

Students who complete this major and other degree requirements may graduate with a Bachelor of Arts (International Studies and Japanese).

Italian: In this major students gain the skills and knowledge to work in, or in association with, organisations in Italy. They study the structure, grammar, phonetics and phonology of the Italian language at beginner or advanced level to become prepared for a range of professions.

Japanese: This major offers students the skills and knowledge to work in, or in association with, organisations in Japan. They study the structure, grammar, phonetics and phonology of the Japanese language at beginner or advanced level to become prepared for a range of professions.

Journalism: This major combines traditional journalistic skills with online publishing, multimedia production and the skills required for interacting with audiences, social networking and building online communities. It also allows students to publish and broadcast their work in online, television, radio and print outlets.

Students who complete this major and other degree requirements may graduate with a Bachelor of Arts (Journalism).

Literature: This major focuses on how people relate to and make sense of the world through writing. It provides students with the opportunity to consider literary works from a variety of historical periods, ranging from the Renaissance to 20th-century cyber culture. Students also consider the changing nature of culture as we move into the information age.

Media: This major aims to provide students with a broad and practical approach to media studies, preparing students for work in the media and communications industries. Students have the opportunity to gain an understanding of the way media is evolving by examining issues such as ownership, control of the media and the impact of new media technologies on society.

Media and Communication: In this major students are introduced to key theories that help explain the pivotal role the media has come to play in our society. They also learn a range of skills to prepare them for both traditional and emerging media roles.

Students who complete this major and other degree requirements may graduate with a Bachelor of Arts (Media and Communication).

Philosophy: This major offers students a well-grounded understanding of the main philosophical themes and thinkers to have shaped our contemporary world view. Students may enrich their critical and creative reasoning skills in ways that enhance their personal and professional development. They undertake studies in environmental philosophy, ethics, philosophical psychology, political philosophy, theory of knowledge, philosophy of science and the history of ideas.

Politics and Public Policy: This major explores politics through contemporary and historical perspectives to examine the dimensions of power in local, national and global contexts. Students learn about national and international politics, comparative political systems, Australia's engagement with the Asia-Pacific region, international relations, nation-building, making public policy, political and social history, war, security and counter terrorism, freedom and democracy, and human rights.

Psychology: This major aims to provide students with the knowledge and skills to understand and explain human behaviour and relationships. Students undertake specialised study in developmental psychology, cognition, social psychology, personality, design and measurement, psychological measurement and abnormal psychology.

Students who complete this major and other degree requirements may graduate with a Bachelor of Arts (Psychology).

Psychology and Forensic Science: In this major students have the opportunity to 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.

Students who complete this major and other degree requirements may graduate with a Bachelor of Arts (Psychology and Forensic Science).

Psychology and Psychophysiology: This major encompasses the fields of psychology and cognitive and behavioural neurosciences.

Students who complete this major and other degree requirements may graduate with a Bachelor of Arts (Psychology and Psychophysiology).

Psychology and Sport Science: In this major students have the opportunity to gain an understanding of the application of psychology to sport. Students learn about the influence of psychological factors on involvement and performance in a sports setting, the use of statistical techniques to evaluate sports performance and make predictions, the interaction between sport and social relationships, and the psychological factors that influence group and individual sport and exercise.

Students who complete this major and other degree requirements may graduate with a Bachelor of Arts (Psychology and Sport Science).

Psychophysiology: In this major students learn about the relationship between physiological and psychological processes. The major also looks at the use of biological recording technology relevant to the study of cognition and behaviour.

Security and Counter Terrorism: This major explores terrorism from political, historical, sociological and military perspectives to provide insight into the causes and effects of global terrorism. It focuses on human rights and the ethical issues surrounding security and counter terrorism policy, and aims to prepare students for work in a culturally diverse global environment.

Students who complete this major and other degree requirements may graduate with a Bachelor of Arts (Security and Counter Terrorism).

Social Media: This major focuses on emerging cultures and technologies, and the rise of social media platforms. Students have the opportunity to develop expertise in communicating within social media environments and to learn how to balance critical, theoretical, methodological and practical engagement in the platform.

Sociology: This major explores social identities, differences, structures and change in Australia and globally. It aims to prepare students for careers in research, government, non-profit organisations and other human-focused fields. Emphasis is placed on research skills training, particularly research design and qualitative research methods. Students design and carry out original research and learn skills in project management, research design and report writing.

Sustainability Management: This major examines the concept of sustainability using case studies that explore the relationships between social, economic and environmental systems, and analyse historical, sociological and philosophical processes. The major incorporates units in philosophy, sociology, science, and politics and public policy. Students have the opportunity to develop the skills to manage sustainable outcomes in public policy and private business.

Double degree opportunities

- Bachelor of Arts/Bachelor of Business
- Bachelor of Arts/Bachelor of Science

Visit www.swinburne.edu.au/international for more information.

Career opportunities

Graduates may be equipped for professional careers in their area of specialisation, including policy analysis and development, research, community development, administration, public relations, publishing, media, social management, journalism, psychology, internet and digital marketing, and writing.

Professional recognition

The three-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council (APAC). Swinburne also offers an APAC-accredited honours (fourth) year in psychology.

International studies

Students who wish to study international studies may do so as part of the Bachelor of Arts and may graduate with a Bachelor of Arts (International Studies).

International studies and Chinese

Students who wish to study international studies and Chinese may do so as part of the Bachelor of Arts and may graduate with a Bachelor of Arts (International Studies and Chinese).

International studies and Italian

Students who wish to study international studies and Italian may do so as part of the Bachelor of Arts and may graduate with a Bachelor of Arts (International Studies and Italian).

International studies and Japanese

Students who wish to study international studies and Japanese may do so as part of the Bachelor of Arts and may graduate with a Bachelor of Arts (International Studies and Japanese).

Security and counter terrorism

Students who wish to study security and counter terrorism may do so as part of the Bachelor of Arts or Bachelor of Social Science (see page 26) and may graduate with a Bachelor of Arts (Security and Counter Terrorism) or Bachelor of Social Science (Security and Counter Terrorism).

Social Science

▶ Bachelor of Social Science

Campus: Hawthorn
Duration: Three years
Intake: March, August

This course introduces students to the study of individuals, groups and human societies. It explores how social relationships and institutions shape individuals and how they, in turn, have the capacity to shape these social institutions.

Students have the opportunity to develop theoretical insight into their chosen discipline and gain an understanding of current developments in society and the workplace. They also learn how to adapt and respond appropriately to future developments in their area of study, both nationally and internationally.

Swinburne also offers an honours (fourth) year for this degree.

Major study areas

Community Health: This major combines studies in the sociology of health and illness, and public and environmental health. It introduces students to the social model of health and its implications for addressing health promotion and health inequalities. Students have the opportunity to develop the skills needed to understand the social and community context of health, design health policy and evaluate healthcare programs, as well as qualitative research methodology and report writing.

Politics and Public Policy: This major explores politics through contemporary and historical perspectives to examine the dimensions of power in local, national and global contexts. Students learn about national and international politics, comparative political systems, Australia's engagement with the Asia-Pacific region, international relations, nation-building, making public policy, political and social history, war, security and counter terrorism, freedom and democracy, and human rights.

Psychology: This major aims to provide students with the knowledge and skills to understand and explain human behaviour and relationships. Students undertake specialised study in developmental psychology, cognition, social psychology, personality, design and measurement, psychological measurement and abnormal psychology.

Students who complete this major and other degree requirements may graduate with a Bachelor of Social Science (Psychology).

Psychology and Forensic Science: In this major students have the opportunity to 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.

Students who complete this major and other degree requirements may graduate with a Bachelor of Social Science (Psychology and Forensic Science).

Psychology and Sport Science: In this major students have the opportunity to gain an understanding of the application of psychology to sport. Students learn about the influence of psychological factors on involvement and performance in a sports setting, the use of statistical techniques to evaluate sports performance and make predictions, the interaction between sport and social relationships, and the psychological factors that influence group and individual sport and exercise.

Students who complete this major and other degree requirements may graduate with a Bachelor of Social Science (Psychology and Sport Science).

Security and Counter Terrorism: This major explores terrorism from political, historical, sociological and military perspectives to provide insight into the causes and effects of global terrorism. It focuses on human rights and the ethical issues surrounding security and counter terrorism policy, and aims to prepare students for work in a culturally diverse global environment.

Students who complete this major and other degree requirements may graduate with a Bachelor of Social Science (Security and Counter Terrorism).

Sociology: This major explores social identities, differences, structures and change in Australia and globally. It aims to prepare students for careers in research, government, non-profit organisations and other human-focused fields. Emphasis is placed on research skills training, particularly research design and qualitative research methods. Students design and carry out original research and learn skills in project management, research design and report writing.

Double degree opportunities

- Bachelor of Business/Bachelor of Social Science

Visit www.swinburne.edu.au/international for more information.

Career opportunities

Employment may be found in policy analysis and development, social research, community development, administration and human services management, planning, welfare, human resources, media relations, public relations, communications research or marketing. With further study, students with appropriate majors may obtain qualifications to become psychologists, librarians, teachers, personnel officers, social workers or sociologists.

Professional recognition

The three-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council (APAC). Swinburne also offers an APAC-accredited honours (fourth) year in psychology.

Aviation▸

Aviation is an evolving industry at the forefront of technology and business. Whether you're interested in flying commercial aircraft or managing operations on the ground, we offer courses that pave the way to a successful career.

Aviation Simulation Laboratory

As an aviation student, you may have the opportunity to try your hand at our flight simulators. There are two available at Swinburne – Victoria's only Redbird flight simulator, which is used to simulate a range of aircraft, and Australia's only FlyIt Professional Helicopter Simulator, capable of simulating six types of helicopter.

The flight simulators are used to investigate issues such as pilot fatigue and inexperience, and the impact of adverse weather on aviation operations.

Study a course reviewed by industry

The Swinburne Aviation Industry Advisory Committee reviews content of our undergraduate aviation courses and ensures that they are relevant to the changing needs of the industry. Committee members include senior executives from the aviation industry, within Australia and overseas.

Add an international edge to your course

Every two years eligible undergraduate students can participate in the aviation international study tour. The tour is a three- to four-week fully escorted tour visiting major aviation facilities around the world, including airports, airlines, aircraft and engine manufacturers, regulators, museums, fuel companies and aviation systems operations. The tour is an accredited elective unit of the course.

Finding the right course

An aviation could be right for you if your interests include:

- the airline industry
- flying
- management and safety.

These courses can lead to careers such as:

- airport/airline management
- airworthiness inspector
- compliance officer
- flight crew
- flight dispatcher
- general aviation pilot
- network analyst
- safety analyst

University degrees

Aviation

▶ **Bachelor of Aviation**

Campus: Hawthorn and external venue (Moorabbin Airport)
Duration: Three years
Intake: March

This course is designed to equip students for a professional career as a pilot. Students undertake their professional pilot training program at CAE Oxford Aviation Academy (COAA), located at Moorabbin Airport, and obtain a Commercial Pilot Licence (CPL) and Multi-engine Command Instrument Rating (MCIR). They also complete a Multi Crew Cooperation and Jet Orientation Course or Flight Instructor Rating, and Frozen Air Transport Pilot Licence (ATPL).

Students complete the theory units required by CASA up to and including ATPL standard, as well as studies in aviation human factors, aviation management and aviation technology.

Swinburne also offers an honours (fourth) year for this degree.

Major study areas

First-year studies introduce students to the structure and operation of the aviation industry. Students are prepared for further study via units in human factors and the aviation industry. Students undertake flying training at COAA three days per week and attend classes at the Hawthorn campus two days per week.

In their second year of study students have the opportunity to develop practical managerial and analytical skills and capabilities. This is designed to enable a deeper understanding of operations and decision-making processes. Students also continue their flying training to complete their CPL and MCIR qualifications.

In their final year of study students complete units designed to help them bring together aviation concepts by applying knowledge and skills to a major industry-based research project.

Areas of study include:
- aerodynamics and jet aircraft performance
- aircraft design and operations
- airline operations
- airspace management and air traffic services
- Air Transport Pilot Licence theory
- aviation business management
- aviation human factors and safety management systems
- Commercial Pilot Licence
- Multi-engine Command Instrument Rating.

Fees

In addition to course fees, students undertaking flying training must pay flying training fees. CPL, MCIR, and Multi Crew Cooperation and Jet Orientation Course fees in 2014 are approximately $92,040, based on scheduled flying hours. CPL, MCIR and Flight Instructor Rating fees in 2014 are approximately $105,805, based on scheduled flying hours. Equipment, headset, uniform, CASA documentation and CASA exam fees are an additional $6921.

Visit www.swinburne.edu.au/aviation for more information.

Note: Fees are subject to change.

Double degree opportunities
- Bachelor of Aviation/Bachelor of Business

Visit www.swinburne.edu.au/international for more information.

Career opportunities

Graduates may be able to pursue a professional career as a pilot within the general aviation sector or via accelerated entry to an airline pilot cadet scheme. The broad aviation knowledge obtained through this course may also prepare graduates for roles in management within the aviation industry.

Professional recognition

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 Command Instrument Rating practical tests.

Aviation management

▶ **Bachelor of Aviation (Management)**

Campus: Hawthorn
Duration: Three years
Intake: March, August

Many careers in the aviation industry are in the diverse operational areas. This course is designed for those who seek a management role in the aviation industry in Australia or overseas. Students have the opportunity to gain a sound professional understanding of the aviation industry and its associated environment, and skills in organisational, regulatory, safety, technical and business management.

This course has been developed with input from industry professionals and focuses on trends shaping the aviation industry today.

Swinburne also offers an honours (fourth) year for this degree.

Major study areas

First-year studies introduce students to the structure and operation of the aviation industry. Students are prepared for further study via units in human factors and the aviation industry.

In their second year of study students have the opportunity to develop practical managerial and analytical skills and capabilities. This is designed to enable a deeper understanding of operations and decision-making processes.

In their final year of study students complete units designed to help them bring together aviation concepts by applying knowledge and skills to a major industry-based research project.

Areas of study include:
- aircraft maintenance, design and operations
- aircraft planning, operation and management
- airline operations
- airport management, airspace management and air traffic services
- aviation business management
- aviation human factors and safety management systems
- aviation law
- aviation marketing
- flight planning and performance
- project management.

Double degree opportunities
- Bachelor of Aviation (Management)/Bachelor of Business

Visit www.swinburne.edu.au/international for more information.

Career opportunities

Graduates may have the professional skills to work in a diverse range of specialist areas in airlines, airports, regulatory authorities and associated organisations. They may find roles in airline management, airports and ground operations, airport planning, aviation consultancy firms, aviation charter firms, aviation regulatory and safety services, commercial management, safety and compliance management, flight operations, network operations, engineering and maintenance, and passenger services.

Business and Management ▶

Studying a business-related degree can give you skills and knowledge that can be applied and are valued in any industry, anywhere in the world. You can learn organisational capabilities, while building on your creativity and resourcefulness.

Make connections with industry

Your degree in business can take you beyond the classroom to engage with industry and better prepare you for your career.

Final-year projects, called Capstone Projects, engage students from across multiple disciplines and allow you to put your learning into practice. One business student used the university's Formula SAE team as the basis for his project. Using his business skills, he helped the racing team ensure that their car was commercially viable. The student also brought in other business students to perform in operational roles, including marketing and sponsorship.

Add an international edge to your course

A short-term international study program is perfect for internationalising your course in a short amount of time, ranging in duration from two to six weeks. Business students can apply for a range of short-term programs in Europe, Asia or the US.

Visit **www.swinburne.edu.au/studytours**

Finding the right course

A business and management course could be right for you if your interests include:

- people and society
- making things happen
- consumers and their buying habits
- markets and marketing
- economies and how they function
- starting or owning your own business
- meeting new people and discovering new places.

These courses can lead to careers such as:

- accountant
- business analyst
- data analyst
- economist
- entrepreneur
- export/import administrator
- financial adviser
- funds management officer
- human resources officer
- investment analyst
- legal secretary
- marketing officer
- mortgage broker.

Foundation Studies

Business

▶ Swinburne College Foundation Studies (Business)

Campus: Hawthorn
Duration: Eight months
Intake: February, June, October

Foundation Studies is a pre-university program specially designed to help international students meet the entry requirements for first-year university. Students gain fundamental academic and communication skills, with a focus on developing their English language skills. They learn the basic principles of business and complete studies in accounting, economics, law and marketing.

Major study areas
- Academic and communication skills
- Accounting
- Economics
- Information technology
- Innovation change
- Introductory mathematics
- Law
- Marketing

Pathways
On successful completion of all units of study, students may progress to a Diploma of Business (UniLink), which prepares them for the second year of a related bachelor degree.

Students who achieve a combined minimum 70 per cent average in Academic and Communication Skills A and B and a minimum 65 per cent average across all remaining units may progress to a bachelor degree. Degrees include:
- Bachelor of Arts
- Bachelor of Business
- Bachelor of Business Information Systems
- Bachelor of Business Information Systems/ Bachelor of Business
- Bachelor of Information and Communication Technologies
- Bachelor of Information and Communication Technologies (Network Design and Security)
- Bachelor of Social Science.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
With further study, graduates may find careers in accounting, finance, human resources, international business, management, marketing, project management, public relations, software development, systems analysis or tourism.

Visit www.swinburne.edu.au/college for more information.

Degree Transfer Programs

Business

▶ Diploma of Business (UniLink)

Campus: Hawthorn
Duration: Eight months
Intake: February, June, October

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.

Major study areas
- Accounting
- Communication for business
- Introduction to business information systems
- Marketing
- Microeconomics
- Organisations and management
- Quantitative analysis

Pathways
On successful completion of this course, students may progress to the second year of a:
- Bachelor of Business
- Bachelor of Business Information Systems
- Bachelor of Information and Communication Technology.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
With further study, graduates may find careers in accounting, commercial law, human resources, international business, management, marketing, project management, public relations, software development, systems analysis or tourism management. They may also be prepared to launch their own business.

Visit www.swinburne.edu.au/college for more information.

TAFE courses

Accounting

▶ Advanced Diploma of Accounting

▶ Diploma of Accounting

▶ Certificate IV in Accounting

Campus: Hawthorn
Duration: *Advanced diploma* – Six months
Diploma – Six months
Certificate – Six months
Total duration – Eighteen months
Note: These courses are usually taken in combination. Units from the Certificate IV are prerequisites for the diploma; units from the diploma are prerequisites for the advanced diploma.
Intake: March, August

In these courses students learn about intermediary accounting principles and applications. Students have the opportunity to gain practical accounting skills to prepare them for work in financial services and other industries requiring accounting support.

Major study areas
- Auditing
- Costing
- Financial accounting
- Management accounting
- Taxation
- Working with spreadsheets

Pathways
Successful completion of the advanced diploma may allow students to progress to the Bachelor of Business (Accounting) or Bachelor of Business (Accounting and Finance) with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Employment may be found in a variety of professional accounting positions such as assistant accountant in medium to large organisations or tax agent.

Professional recognition
Graduates of the advanced diploma may be eligible for membership of the Institute of Public Accountants.

Business

▶ Diploma of Business `new`

▶ Certificate IV in Business `new`

Campus: Hawthorn

Duration: *Diploma* – Six months

Certificate – Six months

Total duration – One year

Note: These courses are usually taken in combination. Units from the Certificate IV are prerequisites for the diploma.

Intake: March, August

These courses teach students advanced technology and administration skills, including recruitment and team management. They are designed to equip students for work in a range of office administration positions.

Major study areas
- Document production
- Managing meetings and projects
- Teamwork

Pathways
Successful completion of this course may allow students to progress to another qualification with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Graduates may be equipped for work as an executive assistant, administrative supervisor or officer, or in senior administrative positions. Graduates may also have the skills required for a range of supervisory and management positions in both large and small businesses. With further study or experience, they may find employment in roles such as executive officer, office manager, retail manager, event manager or business manager.

Event management

▶ Advanced Diploma of Events `new`

▶ Diploma of Events `new`

Campus: Hawthorn

Duration: *Advanced diploma* – Six months

Diploma – One year

Total duration – Eighteen months

Note: These courses are usually taken in combination. Units from the diploma are prerequisites for the advanced diploma.

Intake: March

These courses aim to develop wide-ranging, highly specialised technical event management skills with a strategic research, planning and communication focus. Event organisation and management takes place across the full spectrum of business and community activities. The courses have particular relevance in the community, cultural, hospitality, sporting and tourism sectors.

Major study areas
- Audiovisual systems and equipment
- Business management
- Conventions and exhibitions
- Environmental management
- Event management (festivals, meetings and conventions)
- Financial planning
- Fundraising
- Leadership and management

Pathways
Successful completion of the advanced diploma may allow students to progress to a range of Bachelor of Business degree options with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Employment may be found in exhibition and event management companies, sporting associations, community organisations, or in hospitality or cultural venues.

International Business

▶ Diploma of International Business

▶ Certificate IV in International Trade

Campus: Hawthorn

Duration: *Advanced diploma* – Six months

Diploma – Six months

Total duration – One year

Note: These courses are usually taken in combination. Units from the Certificate IV are prerequisites for the diploma.

Intake: March, August

These courses focus on the various strategies involved in moving into overseas markets and the methods used to engage in international business. Students learn how to apply practical marketing and managerial skills to business and commercial enterprises.

Major study areas
- Building international client relationships and networks
- Consumer behaviour in international markets
- Forecasting international business needs
- Import and export
- International law
- International trade
- Project management
- Researching international business opportunities

Pathways
Successful completion of the diploma may allow students to progress to a range of Bachelor of Business degree options or a range of Bachelor of Communication degree options with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Graduates may be equipped for management positions in shipping, transport, and public and private import/export organisations.

Marketing

▶ Diploma of Marketing

▶ Certificate IV in Marketing

Campus: Hawthorn

Duration: *Diploma* – Six months

Certificate – Six months

Total duration – One year

Note: These courses are usually taken in combination. Units from the Certificate IV are prerequisites for the diploma.

Intake: March, August

These courses may assist students who possess sound theory, knowledge and practical experience in marketing to progress their career prospects in sales and marketing management. They may suit students with work experience in sales or marketing who have the energy, ambition and commitment to expand their careers.

Major study areas
- Integrated marketing communications
- Interpreting market trends
- Managing budgets
- Market profiling and consumer behaviour
- Market research planning

Pathways
Successful completion of the diploma may allow students to progress to a range of Bachelor of Business degree options with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Graduates may advance to management positions in sales and marketing.

Professional recognition
Graduates may be eligible for membership of the Australian Marketing Institute.

Accounting

Students who wish to study accounting or accounting and finance may do so as part of the Bachelor of Business and may graduate with a Bachelor of Business (Accounting) or Bachelor of Business (Accounting and Finance).

Advertising

Students who wish to study advertising may do so as part of the Bachelor of Business or Bachelor of Communication (see page 66) and may graduate with a Bachelor of Business (Advertising) or Bachelor of Communication (Advertising).

Business

▶ Bachelor of Business

Campus: Hawthorn

Duration: Three years

Intake: March, August

This degree is designed to equip students with core skills and knowledge in business, management and operations to prepare them for roles in modern organisations. Students select a major area of specialisation which is combined with other studies to teach them how to be entrepreneurial thinkers in their future career.

The course links theoretical and practical knowledge needed to operate effectively in diverse settings such as not-for-profits, government, small business and corporate organisations. Students have the opportunity to participate in professionally focused, multidisciplinary projects during their final year of study.

Swinburne also offers an honours (fourth) year for this degree.

Major study areas

Accounting: This major is designed to equip students with the skills 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, price products, develop operating strategies and evaluate business performance.

Accounting and Finance: This major combines studies in accounting and finance to introduce students to the concepts of accounting, management, statistics, microeconomics and business law. Students have the opportunity to develop core skills in analysing investments, sourcing foreign exchange deals, risk management and business investment.

Advertising: Advertising drives growth for businesses of all types and sizes. In this major students explore the role of advertising in the business environment. They have the opportunity to gain the skills to be creative in making maximum use of advertising to assist in achieving organisational objectives. Students also learn how to create and deliver attention-grabbing advertisements and advertising campaigns.

Commercial Law: In this major students have the opportunity to gain skills in legal problem-solving and in assessing the impact of law and regulation on an organisation. They learn about the legal aspects of contracts, marketing, intellectual property, taxation and finance, and company law.

Note: This major does not enable students to practice as a barrister or solicitor.

Economics: In this major students learn how to critically analyse and evaluate contemporary issues and policies put forward by government and international bodies. Students have the opportunity to review, debate, identify and discuss the limitations of policies and proposals. The major aims to provide students with a thorough understanding of the economics of financial markets, economic development, and environmental and managerial economics.

Entrepreneurship and Innovation: This major offers students the skills to differentiate a business idea from a tangible business opportunity and to use innovation to maximise that opportunity, whether economic, social or political. Students learn about business scenario analysis and how to apply it to develop strategic thinking and planning skills, explore business models, interpret sales and marketing opportunities, build an effective team and source capital funding.

Finance: Finance professionals inform business decision-makers about financing and investment opportunities, and associated profit and security risks. In this major students learn how to analyse and assess financial forecasts and the value of companies, manage risk, investigate investment opportunities and examine the values of shares and bonds.

Human Resource Management: In this major students learn about the impact of human resource management as the driver of innovation and high performance in the workplace. They study staff recruitment, selection and development; employee relations management; staff training; job evaluation; change management; and occupational health and safety.

International Business: The world is one of express global transportation and instant communication, increasing demand for business graduates who are prepared to tackle the international nature of the contemporary marketplace. This major addresses two themes: trades and investment, and cross-country management. Students discover the importance of economic systems, currencies and business customs; and learn about their effects on an organisation with international interests.

Management: In this major students learn about the role of management in business and discover how key resources must be planned, monitored and controlled to meet strategic business objectives. Students have the opportunity to develop the skills to manage themselves, to organise and lead others, to make creative and well-informed decisions, and to evaluate current situations. They also learn how to be an ethical and socially responsible manager.

Marketing: In this major students have the opportunity to develop advanced marketing and managerial skills. They learn about the significance of marketing in the wider business context. The major explores how business results are achieved through the development and endorsement of a strategic customer focus; and addresses topics such as buyer behaviour, innovation and design, planning, branding, channel design, communication and market research.

Public Relations: Public relations (PR) focuses on protecting and advancing clients' reputations through effective communication and relationship-building. This major explores the importance of communication in reaching corporate objectives. Students learn how PR supports the implementation of strategic plans, communication planning and campaign development.

Tourism Management: Tourism affects national and international economies, and requires managers to have both management skills and a tourism focus. In this major students examine contemporary issues in tourism, including social responsibility, ethics, equitable use of resources and global tourism futures. They are challenged to adopt culturally sensitive attitudes and to conceptualise innovative solutions to difficult problems.

Double degree opportunities
- Bachelor of Arts/Bachelor of Business
- Bachelor of Aviation/Bachelor of Business
- Bachelor of Aviation (Management)/Bachelor of Business
- Bachelor of Business/Bachelor of Communication
- Bachelor of Business/Bachelor of Social Science
- Bachelor of Business Information Systems/Bachelor of Business
- Bachelor of Design (Communication Design)/Bachelor of Business
- Bachelor of Engineering/Bachelor of Business (various)

Career opportunities
Graduates may be prepared to be employed or self-employed in a wide range of fields such as accounting, advertising, business analysis, commercial law, communications, entrepreneurship, finance, human resources, international business, management, marketing, public relations or tourism management.

Professional recognition
Graduates may be eligible for membership of a number of organisations relevant to their major area of study, including the Association of Chartered Certified Accountants, Australian Human Resources Institute, Australian Institute of Management, Australian Marketing Institute, Chartered Institute of Management Accountants, CPA Australia, Financial Services Institute of Australasia, Governance Institute of Australia, Institute of Chartered Accountants, Institute of Public Accountants, Public Relations Institute of Australia and Stockbrokers Association of Australia.

The accounting and accounting and finance majors are professionally accredited by CPA Australia.

The human resource management major is professionally accredited by the Australian Human Resources Institute.

The public relations major is professionally accredited by the Public Relations Institute of Australia.

Business administration

▶ Associate Degree of Business Administration

Campus: Hawthorn
Duration: Two years
Intake: March, August

This course is designed to equip students with the skills and knowledge for a range of generalist business professions. It seeks to provide students with personal development; an understanding of organisational management, marketing and finance; and the ability to apply these concepts in the workplace by undertaking an internship.

The course emphasises practical knowledge and skills. It combines skills in office administration, human resource management, accounting, project management and business law. The course aims to provide managers and administrators in public, private and not-for-profit organisations with a professional qualification.

On completion of their first year, students are eligible to graduate with a diploma.

Major study areas
- Accounting
- Business law
- Business planning
- Human resources
- Management
- Marketing

Career opportunities
Graduates may be equipped for employment as an executive assistant, administrative supervisor or assistant, and in administrative and office management positions.

Commercial law

Students who wish to study commercial law may do so as part of the Bachelor of Business and may graduate with a Bachelor of Business (Commercial Law).

Entrepreneurship and innovation

Students who wish to study entrepreneurship and innovation may do so as part of the Bachelor of Business and may graduate with a Bachelor of Business (Entrepreneurship and Innovation).

Finance

Students who wish to study finance or accounting and finance may do so as part of the Bachelor of Business and may graduate with a Bachelor of Business (Finance) or Bachelor of Business (Accounting and Finance).

Human resource management

Students who wish to study human resource management may do so as part of the Bachelor of Business and may graduate with a Bachelor of Business (Human Resource Management).

International business

Students who wish to study international business may do so as part of the Bachelor of Business and may graduate with a Bachelor of Business (International Business).

Management

Students who wish to study management may do so as part of the Bachelor of Business and may graduate with a Bachelor of Business (Management).
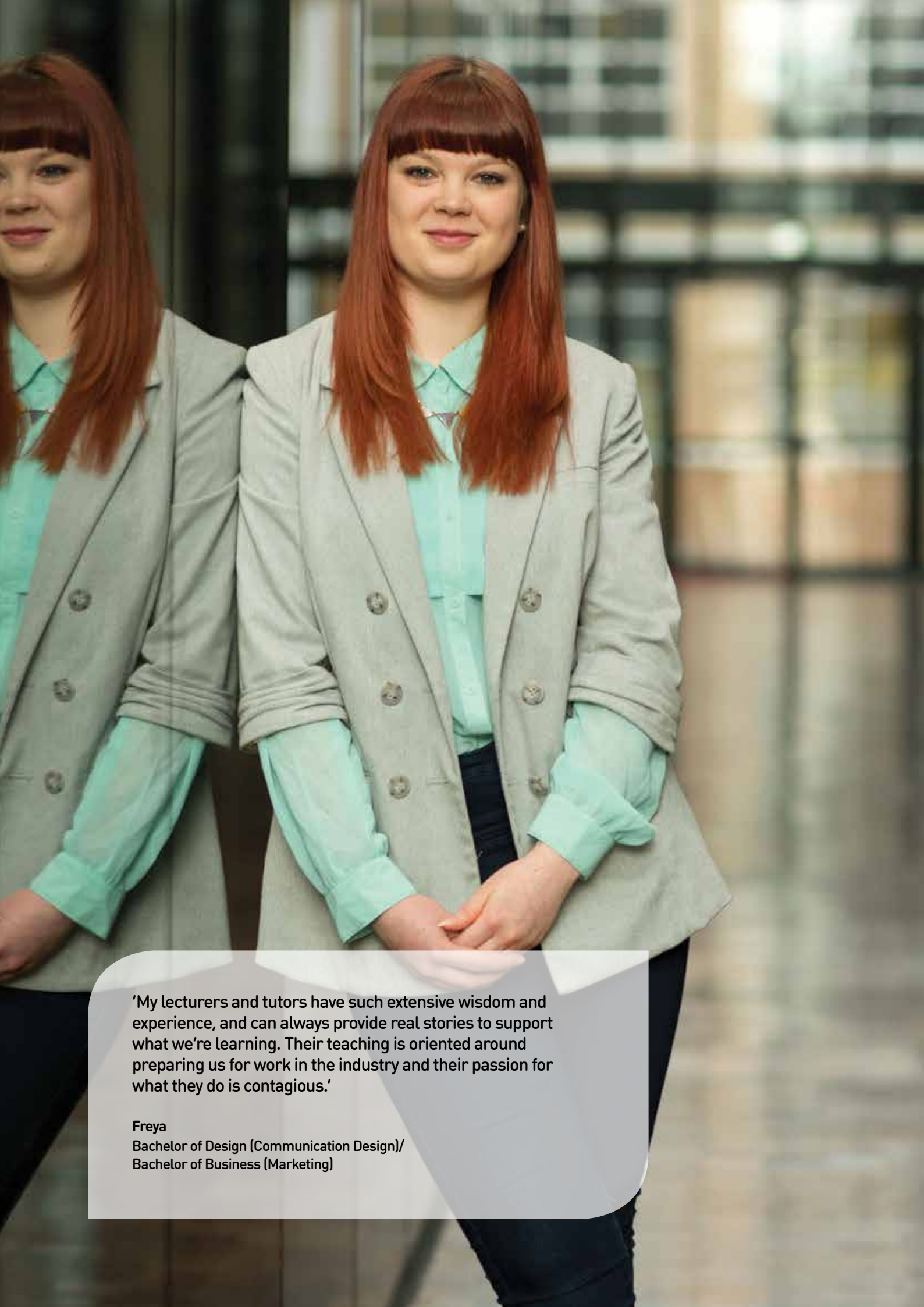
Marketing

Students who wish to study marketing may do so as part of the Bachelor of Business and may graduate with a Bachelor of Business (Marketing).

Public relations

Students who wish to study public relations may do so as part of the Bachelor of Business or Bachelor of Communication (see page 66) and may graduate with a Bachelor of Business (Public Relations) or Bachelor of Communication (Public Relations).

Tourism management

Students who wish to study tourism management may do so as part of the Bachelor of Business and may graduate with a Bachelor of Business (Tourism Management).

'My lecturers and tutors have such extensive wisdom and experience, and can always provide real stories to support what we're learning. Their teaching is oriented around preparing us for work in the industry and their passion for what they do is contagious.'

Freya
Bachelor of Design (Communication Design)/
Bachelor of Business (Marketing)

Design▸

Swinburne's prestigious design courses let you combine imagination and innovation with smart business sense. Our strong industry connections can help you harness your natural creativity and apply it in industry.

Extend your skills by undertaking honours

High-achieving undergraduate design students may apply for entry into our honours program. This competitive program adds an additional year to undergraduate courses and equips you with skills in industry practice, research and development.

The honours year in design gives you the opportunity to work in the Swinburne Design Factory. This is a dedicated design space where students studying business, design, engineering and information technology form teams and work in a professional setting to solve problems or improve products and services for business, government and not-for-profit organisations. Led by expert staff from across the university, you'll tackle specific innovation challenges for industry sponsors. You could work on projects with students across the Design Factory network, from countries including Finland, China and Chile.

Add an international edge to your course

A short-term international study program is perfect for internationalising your course in a short amount of time, ranging in duration from two to six weeks. A number of short-term programs are available to design students. Destinations may include France, Germany, Hong Kong, Italy, the UK, the US, Singapore and Vietnam.

Visit **www.swinburne.edu.au/studytours**

Finding the right course

A design course could be right for you if your interests include:

- design
- communication
- humanistic elements of space and environments
- popular culture
- visual expression
- social change and sustainability
- solving problems
- style, colour and form
- working with ideas to creatively express and present them.

These courses can lead to careers such as:

- advertising/art director
- animator
- cinematographer
- design manager
- exhibition designer
- furniture designer
- graphic designer/illustrator
- industrial/product designer
- interaction designer
- interior architecture designer
- interior designer
- packaging designer
- post-production visual effects artist
- service designer
- video game designer/developer
- website and app designer.

Foundation Studies

Design

▶ Swinburne College Foundation Studies (Design)

Campus: Hawthorn
Duration: Eight months
Intake: February, June, October

Foundation Studies is a pre-university program specially designed to help international students meet the entry requirements for first-year university. Students gain fundamental academic and communication skills, with a focus on developing their English language skills. Students are also introduced to essential design theory and learn to apply practical skills in drawing, illustration and graphic design.

Major study areas
- Academic and communication skills
- Context and culture
- Design studies
- Drawing and illustration
- Graphic design
- Information technology
- Innovation and change
- Introductory mathematics

Pathways
On successful completion of all units of study, students may progress to a Diploma of Design (UniLink), which prepares them for the second year of a related bachelor degree.

Students who achieve a combined minimum 70 per cent average in Academic and Communication Skills A and B and a minimum 65 per cent average across all remaining units may progress to a bachelor degree. Degrees include:
- Bachelor of Arts
- Bachelor of Design (Communication Design)
- Bachelor of Design (Digital Media Design)
- Bachelor of Design (Industrial Design)
- Bachelor of Design (Interior Architecture)
- Bachelor of Film and Television
- Bachelor of Film and Television (Animation)
- Bachelor of Social Science.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
With further study, graduates may find employment in design areas such as communication/graphic design, multimedia/digital media design, interior design and industrial design.

Visit www.swinburne.edu.au/college for more information.

Degree Transfer Programs

Design

▶ Diploma of Design (UniLink)

Campus: Hawthorn
Duration: Eight months
Intake: February, June, October

This higher education diploma provides an alternative pathway to the second year of a bachelor degree. It includes study in digital, interactive and 3D design. 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.

Students extend their creative and practical design skills and develop a modern approach to the role of design in society.

Major study areas
- 20th century design
- 3D communication
- 3D design
- Communication for design
- Design studio
- Digital design
- Interactive design for web technologies
- Methods of investigation

Pathways
On successful completion of this course, students may progress to the second year of a:
- Bachelor of Design (Communication Design)
- Bachelor of Design (Digital Media Design)
- Bachelor of Design (Industrial Design)
- Bachelor of Design (Interior Architecture).

Students may also progress to the first year of a Bachelor of Design (Communication Design)/Bachelor of Business with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Graduates may work towards a career in advertising, animation, design consultancy, graphic design, packaging design, publishing, research and development for manufactured products, video games development, or web and interactive digital design, as well as roles in the design of commercial and residential interiors and public spaces, or in media and entertainment studios.

Visit www.swinburne.edu.au/college for more information.

TAFE courses

Design

▶ Certificate IV in Design new

Campus: Hawthorn, Wantirna
Duration: One year
Intake: March

In this course students have the opportunity to develop and enhance skills in graphic design, interior design, product design and related design studies. Students explore the historical and contextual basis for design.

The course acts as a foundation year for exploring the diversity of design from both 2D and 3D perspectives.

Major study areas
- 2D design
- 3D design
- Communication design
- Design history, theory and processes
- Digital design
- Drawing for illustration
- Information design
- Product design

Pathways
Successful completion of this course may allow students to progress to another qualification with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Graduates may be prepared for further study.

Graphic design

▶ Diploma of Graphic Design

Campus: Hawthorn, Wantirna
Duration: Eighteen months
Intake: March

In this course students learn to create and execute design concepts efficiently and economically. The course seeks to teach students how to combine technical, creative and conceptual skills to meet design briefs and solve a range of visual communication problems. Students have the opportunity to use traditional and electronic media to assemble camera-ready and digital artwork for graphic reproduction and web-based output. Web design and production is also covered in the course.

Major study areas

- Design theory, concept and process
- Digital art and design
- Digital imaging
- Drawing techniques
- Graphic arts
- Graphic pre-press
- Photography
- Print processing
- Typography techniques
- Web design

Pathways

Successful completion of this course may allow students to progress to the Bachelor of Design (Communication Design) or Bachelor of Design (Communication Design)/Bachelor of Business with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities

Graduates may find employment in advertising agencies, graphic design and finished art studios, publishing (newspaper and magazines), retail advertising, printers, film and television production houses, educational institutions or government.

Interior design

▶ Diploma of Interior Design and Decoration

Campus: Hawthorn
Duration: Eighteen months
Intake: March

This course aims to provide students with the skills and knowledge to create plans and undertake projects in interior design and decoration. It teaches students the skills to undertake industry-based design projects in later stages of the course; they learn how to create and plan furniture, fittings, surfaces and colour schemes for commercial and residential settings. Units cover spatial planning, computer-aided drafting and colour design for specialist interior applications.

Major study areas

- Building materials and construction
- Colour schemes, furniture, fabrics and fixtures
- Computer-aided drafting
- Contracts
- Design documentation
- Design process
- Historic furnishing styles
- Manage client projects
- Planning, arranging and styling the space
- Technical drawing

Pathways

Successful completion of this course may allow students to progress to the Bachelor of Design (Interior Architecture) with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities

Graduates may find employment in interior design firms, architectural firms, design and decoration consultancies, furnishing and fabric suppliers, furnishing departments, retail or shop fitting. They may also work as a self-employed interior designer or decorator.

University degrees

Communication design

▶ Bachelor of Design (Communication Design)

Campus: Hawthorn
Duration: Three years
Intake: March, August

This course offers students a solid understanding of communication design across a broad range of media and seeks to prepare them for the challenges of an exciting and evolving industry. Students explore the communication imperative in a commercial environment and learn how to respond confidently to design problems.

Students also explore an area of specialisation and have the opportunity to produce a portfolio that aims to demonstrate diverse idea generation and production skills. The course has a strong technology base and is designed to provide students with the skills and knowledge needed to become imaginative thinkers, refined practitioners and well-informed designers.

Students are encouraged to participate in study tours and international exchange programs to broaden their understanding of design in a global context.

Swinburne also offers an honours (fourth) year for this degree.

Major study areas

Students complete studies in:

- 20th century design
- brand and identity design
- communication design strategy
- design concepts and narratives
- design for production
- digital design
- typography
- visual communication
- web design

Students also select one specialisation from:

- advertising design and strategy
- design for publication
- illustrative media
- motion graphics
- packaging and brand design
- photography
- web and mobile devices.

Double degree opportunities

- Bachelor of Design (Communication Design)/ Bachelor of Business

Visit www.swinburne.edu.au/international for more information.

Career opportunities

Graduates may find careers in design consultancy, advertising, infographics, publishing, merchandising, packaging design, branding and communication strategy, education and research.

Professional recognition

Graduates may be eligible for membership of the Australian Graphic Design Association and Design Institute of Australia.

Communication design (continued)

▶ Bachelor of Design
(Communication Design) (Honours)

Campus: Hawthorn
Duration: Four years
Intake: March

This comprehensive course is designed to equip students with high-end strategic and conceptual thinking skills, informed by research, to help them create innovative and refined visual design solutions. Students are mentored by experts via industry-focused workshops and encouraged to build strong industry networks through an industry placement, work in the Swinburne Design Factory or participation in industry projects.

Students have the opportunity to produce a portfolio that reflects a focused approach to design thinking and practice, and is designed to position them to help shape the future of contemporary design practice.

Students are encouraged to participate in study tours and international exchange programs to broaden their understanding of design in a global context.

Major study areas
Students complete studies in:

- 20th century design
- communication design strategy
- contemporary design issues
- design for production
- design research
- digital design
- information design
- packaging design
- photography
- typography.

Students also gain industry experience through workshops and by undertaking an industry placement or project.

Career opportunities
Graduates may find careers in design strategy, advertising, branding design strategy, design and management, consultancy, design research, education, information design, publishing, packaging design and wayfinding.

Professional recognition
Graduates may be eligible for membership of the Australian Graphic Design Association and Design Institute of Australia.

Digital media design

▶ Bachelor of Design
(Digital Media Design)

Campus: Hawthorn
Duration: Three years
Intake: March, August

In this course students learn how to develop and deliver a range of digital media applications, including projects for web, digital film and television production, interactive digital media and handheld mobile devices. In doing so, they have the opportunity to employ a combination of creative design thinking, industry-relevant technical skills and research. Studies in time-based sequence design seek to provide students with expertise in animation, 3D modelling, digital video, audio media and communication design for electronic media.

Students select one specialisation from 2D animation, 3D animation, web and mobile devices, motion graphics, advertising design and strategy, packaging and brand design or stop-motion animation.

Students are encouraged to participate in study tours and international exchange programs to broaden their understanding of design in a global context.

Swinburne also offers an honours (fourth) year for this degree.

Major study areas
- 20th century design
- 2D character animation
- Contemporary design issues
- Design research
- Digital media design new technologies
- Digital video camera techniques
- Imaging for narrative and storyboarding
- Interactive design for games and web applications
- Interactive design for web technologies
- Typography for screen and motion

Career opportunities
Graduates may find careers in advertising; animation; design consultancy; design management; media and entertainment; music or corporate video production; post-production, including post-production special effects; video games entertainment; and website design/development.

Professional recognition
Graduates may be eligible for membership of the Australian Graphic Design Association, Australasian Interactive Media Industry Association and Design Institute of Australia.

Industrial design

▶ Bachelor of Design
(Industrial Design)

Campus: Hawthorn
Duration: Four years
Intake: March, August

In this course students learn how to develop products that meet human needs and expectations, ranging from personal and household items to commercial and industrial equipment. Materials selection, energy use, human interface and environmental sustainability are some of the design parameters considered in the research and development undertaken to design new products for mass production.

Students have the opportunity to develop creative and technological aptitude through a user-centred design program supported by business studies, professional practice, consumer knowledge, sustainability and design ethics. They explore materials and manufacturing techniques to create product concepts and learn how to communicate their ideas using industry-standard software and workshop-based prototyping facilities.

Students are encouraged to participate in study tours and international exchange programs to broaden their understanding of design in a global context.

Swinburne also offers an honours year for this degree.

Major study areas
- 20th century design
- Contemporary design issues
- Design for manufacture
- Design research
- Digital sketching and rendering
- Explanatory and technical sketching
- Ideation sketching
- Product computer-aided design
- Products in context
- Rapid manufacture
- Socially responsible design
- Sustainable design studio
- User-centred design

Career opportunities
Graduates may find careers in product design, research and development for manufacturing of products such as electronic items, consumer goods, transportation vehicles, transportation systems, furniture and fittings, sporting equipment, medical equipment, toys and games.

Professional recognition
Graduates may be eligible for membership of the Design Institute of Australia.

Interior architecture

▶ Bachelor of Design
(Interior Architecture)

Campus: Hawthorn
Duration: Four years
Intake: March, August

In this course students learn about the environments in which we spend our lives and how they are formed and fabricated. They examine our need to revisit continually the way we create our cities, homes, retail environments and workplaces in a rapidly changing world.

Students engage in a variety of projects and learn to capitalise on new technologies and materials in the construction of indoor and outdoor 3D spaces. They have the opportunity to develop a broad repertoire of representation and visualisation skills using industry-standard software programs, manual drafting and freehand drawing.

Students are encouraged to participate in study tours and international exchange programs to broaden their understanding of design in a global context.

Swinburne also offers an honours year for this degree.

Major study areas
- 20th century design
- Aesthetics and space
- Construction technology
- Contemporary design issues
- Design research
- Digital communication for interiors
- Digital representation
- Interior architecture communication
- Interior architecture history
- Interior architecture materials and construction technology
- Professional communication for interiors
- Project management
- Sustainable design
- Theory of interior design

Career opportunities
Graduates may consider a career in an architectural or interior design practice, or as a self-employed designer. Careers may be found in the design of residential, commercial, retail, sporting and government spaces; temporary spaces such as trade shows and museum displays; public spaces and environments; or in design management.

Professional recognition
Graduates may be eligible for membership of the Design Institute of Australia.

'I would highly recommend Swinburne because the teaching staff are fantastic! They are always willing to answer questions and they genuinely care for students. My degree allowed me to further my skills in digital media as well as gain a strong understanding of marketing concepts. It is designed with my future in mind.'

Aaron
Bachelor of Arts (Digital Media)

Digital Media ▶

Digital media is revolutionising the way we access information, do business, are governed and how we interact with each other. Our industry-relevant digital media courses focus on practical and applied knowledge, so you can graduate with both a theoretical understanding of the industry and the skills you'll need to excel.

Gain invaluable experience from final-year projects

Final-year projects, called Capstone Projects, engage students from across multiple disciplines and allow you to put your learning into practice.

Developed over one semester by a team of five Bachelor of Arts (Games and Interactivity)/ Bachelor of Computer Science students, the Worlds of Navitas was completed for commercial client VEA. The company approached Swinburne with the goal of taking a difficult unit of VCE physical education study and turning it into a game. The student team took the content provided by VEA and developed a complex, database-driven interactive game. The Worlds of Navitas was distributed worldwide on Mac, PC and iPad in March 2013.

Whizkid Games was created by 80 Bachelor of Design (Digital Media Design) students for children with moderate to severe autism, in collaboration with Swinburne's National eTherapy Centre (NeTC), the Swinburne Autism Bio-Research Initiative and Bulleen Heights School for autistic children. NeTC commissioned the students to create a tool that would help autistic children learn independent living skills. Whizkid Games received the Premier's Recognition Award as the stand-out design achievement of 2010.

Finding the right course

A digital media course could be right for you if your interests include:

- communication and media design
- digital design
- animation for the web and mobile devices
- mobile app development
- the virtual world
- computer games
- the codes and languages that help to create a website
- search engine optimisation and digital marketing
- digital content creation.

These courses can lead to careers such as:

- 2D/3D animator
- art director
- digital media designer/developer
- digital video/sound editor
- games developer/writer
- graphic designer/illustrator
- internet marketing specialist
- multimedia designer/developer
- production assistant
- programmer
- user-interface software engineer
- visual effects specialist
- website designer.

TAFE courses

Digital and interactive games

▶ Diploma of Digital and Interactive Games `new`

▶ Certificate IV in Digital and Interactive Games `new`

Campus: Hawthorn
Duration: *Diploma* – One year
Certificate – One year
Total duration – Two years
Note: These courses are usually taken in combination. Units from the Certificate IV are prerequisites for the diploma.
Intake: March

These courses may be suitable for those who want to learn how to create interactive games; sound for games; 2D characters, backgrounds and animations; and 3D characters, models and animations. Students also learn about games development using the game engine Utility.

The courses aim to provide students with the skills and knowledge to become animators and game developers for online and mobile platforms. Students may also be prepared to progress to further study in information technology.

Major study areas
- 2D animation
- 3D animation and modelling
- Digital video production and post-production
- Games development
- Visual design and imaging
- Web programming

Pathways
Successful completion of the diploma may allow students to progress to one of the following degrees with advanced standing:

- Bachelor of Business Information Systems
- Bachelor of Design (Digital Media Design)
- Bachelor of Information and Communication Technology
- Bachelor of Computer Science (Games Development).

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Employment may be found in the fields of game design, multimedia, web design, web programming, video production and post-production, 3D modelling, animation and games development.

Digital media technology

▶ Diploma of Digital Media Technologies `new`

▶ Certificate IV in Digital Media Technologies `new`
specialising in Multimedia

Campus: Hawthorn
Duration: *Diploma* – One year
Certificate – One year
Total duration – Two years
Note: These courses are usually taken in combination. Units from the Certificate IV are prerequisites for the diploma.
Intake: March

These courses have been developed with industry assistance and aim to provide a broad range of skills required for entry into the information technology and multimedia industries. Emphasis is placed on practical skills using a hands-on approach. The courses offer students the skills and knowledge to become a web or multimedia developer. Students also learn about digital photography, visual design, web design, web programming, database integration and multimedia project management.

Major study areas
- 2D animation
- Digital photography
- Drawing
- Dynamic website development
- Motion graphics
- Project management
- Visual design
- Web design and programming

Pathways
Successful completion of the diploma may allow students to progress to one of the following degrees with advanced standing:

- Bachelor of Business Information Systems
- Bachelor of Computer Science
- Bachelor of Computer Science (Games Development)
- Bachelor of Design (Digital Media Design)
- Bachelor of Information and Communication Technology
- Bachelor of Information and Communication Technology (Network Design and Security).

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Employment may be found in the fields of web design, web programming, interactive digital media and project management for web content.

University degrees

Digital media

▶ Bachelor of Arts (Digital Media)

Campus: Hawthorn
Duration: Three years
Intake: March, August

This course focuses on digital media production, emphasising practical skills and creative techniques. Students have the opportunity to gain a solid theoretical foundation in digital media and may select units from a range of study areas, including the business of media, user experience design, remix culture, media law and multimedia technology. Units in marketing are also available to complement studies in digital media.

Swinburne also offers an honours (fourth) year for this degree.

Major study areas
- 3D modelling
- Digital content management
- Digital imaging
- Digital mobility
- Digital narratives
- Digital video and audio
- Radio production
- User experience design
- Web development and programming

Career opportunities
Graduates may find roles in web development and usability, video production, information architecture and multimedia project management. They may also be prepared to start their own multimedia business or to pursue a career in digital marketing working in the production of online marketing campaigns.

Professional recognition
Students and graduates may be eligible for membership of the Australasian Interactive Media Industry Association.

Games and interactivity

▶ Bachelor of Arts
(Games and Interactivity)

Campus: Hawthorn
Duration: Three years
Intake: March, August

This course focuses on the role of games in contemporary society and how games are developing as a cultural industry. Students undertake a range of projects which focus on analog and digital games, and have the opportunity to develop practical and creative research and communication skills in a games lab environment. The course recognises the increasing convergence of games and other forms of media by complementing a core set of games-specific studies with units drawn from the wider field of media and communications.

Swinburne also offers an honours (fourth) year for this degree.

Major study areas
- 3D world design
- Audio and video production
- Game design
- Games development
- Games technology
- Narrative design

Double degree opportunities
- Bachelor of Arts (Games and Interactivity)/Bachelor of Computer Science

Visit www.swinburne.edu.au/international for more information.

Career opportunities
Graduates may find employment opportunities in game design, writing for games, producing interactive content, transmedia storytelling, digital content production, online community management, games criticism and digital arts. Graduates may also be equipped to pursue a career outside the games industry in the broader media, multimedia and communications sectors.

Professional recognition
Students may be eligible for membership of the Games Developers' Association of Australia.

Graduates working in the games industry may be eligible for membership of the Games Developers' Association of Australia and International Games Developers' Association.

Students and graduates may be eligible for membership of the Australasian Interactive Media Industry Association.

'The facilities at Swinburne are great. There are modern laboratories and the teachers are very enthusiastic and attentive to students. The Hawthorn campus is a mix of cultures and languages. Everyone is friendly and there are many chances to make friends with students who come from all over the world.'

Thai Hoang
Bachelor of Engineering (Civil) (Honours)
2012 Champion, *Way to Olympia Peak*

Engineering ▶

Across Australia and the world, businesses are seeking employees with the knowledge and skills to design, build and maintain our built environment, and to create innovative products. Next-generation computers and tablets, smartphones, low-emission cars, biomechanical limbs and industrial robots are just some of the products created by engineers.

Record-breaking marble run

In 2013 a team of nine Swinburne engineering students broke the Guinness World Record for the longest marble run. The third-year students set themselves the challenge, which was held on Swinburne's Open Day, and spent five hours a day, four days a week for a month preparing for the attempt.

The students had to choose a location, design and build their marble run, work within a budget and deliver the project on time. On the day, the marble ran continually unassisted for the entire length of the track, from the 10th floor of the Advanced Technologies Centre to the ground floor, setting a new world record of 1286.6 metres. The previous record was 649.38 metres, set in Germany in 2012.

Get involved in the Formula SAE competition

As part of your final-year project, you may be able to take part in the Formula SAE competition. The competition offers engineering and business students the opportunity to design, build, market and race an electric formula race car against other university teams. Team Swinburne came first in the electric vehicle division of the 2012 competition. Swinburne has been involved in Formula SAE since the event's conception in 2000 and has been one of the highest performing and most consistent teams in the competition.

In 2013 the race car featured both on and off the track at the Formula 1 Australian Grand Prix in Melbourne. On day one of the grand prix the car did a demonstration run along the main straight of the Albert Park race track. It was then on display for the remainder of the grand prix.

Finding the right course

An engineering course could be right for you if your interests include:

- how things work and how they can work better
- the design of innovative products
- maths and science
- problem-solving
- creating things
- the environment and sustainable solutions for the future
- robotics
- hardware and software development.

These courses can lead to careers such as:

- biomechanical engineer
- biomedical engineer
- building surveyor
- CAD engineer
- cardiac technologist
- civil engineer
- construction engineer
- draftsperson
- electrical engineer
- electronics and computer systems designer
- manufacturing engineer
- mechanical engineer
- mechatronics engineer
- network design specialist
- product design engineer
- software engineer
- structural engineer
- system-on-chip designer
- telecommunications engineer
- vascular sonographer/technician.

Foundation Studies

Science/Engineering

▶ Swinburne College Foundation Studies (Science/Engineering)

Campus: Hawthorn
Duration: Eight months
Intake: February, June, October

Foundation Studies is a pre-university program specially designed to help international students meet the entry requirements for first-year university. Students gain fundamental academic and communication skills, with a focus on developing their English language skills. They also develop skills in communication, information technology and mathematics, and undertake units in physics, chemistry, and mathematics for science and engineering.

Major study areas
- Academic and communication skills
- Chemistry
- Information technology
- Innovation and change
- Introductory mathematics
- Mathematics for science and engineering
- Physics

Pathways
On successful completion of all units of study, students may progress to a Diploma of Engineering (UniLink) or Diploma of Information Technology (UniLink), which prepares them for the second year of a related bachelor degree.

Students who achieve a combined minimum 70 per cent average in Academic and Communication Skills A and B and a minimum 65 per cent average across all remaining units may progress to a bachelor degree in aviation, engineering, health science, information technology or science.

Students may also progress to a range of related double degrees.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
With further study, students may find careers in engineering, biotechnology, management, mining, network administration, telecommunications and transport.

Visit www.swinburne.edu.au/college for more information.

Degree Transfer Programs

Engineering

▶ Diploma of Engineering (UniLink)

Campus: Hawthorn
Duration: Eight months
Intake: February, June, October

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.

Major study areas
Students complete units in:
- electronic systems
- energy and motion
- engineering mathematics
- materials and processes
- mechanics and structures
- professional engineering.

Students also complete bioengineering, general engineering or information technology elective units, depending on their plans for further study.

Note: Not all elective units are available at every intake.

Pathways
On successful completion of this course, students may progress to the second year of a:
- Bachelor of Engineering (Civil) (Honours)
- Bachelor of Engineering (Electrical and Electronic) (Honours)
- Bachelor of Engineering (Electronics and Computer Systems) (Honours)
- Bachelor of Engineering (Mechanical) (Honours)
- Bachelor of Engineering (Robotics and Mechatronics) (Honours).

Students may also progress to the first year of a range of engineering degrees with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
With further study, graduates may find employment in a range of industries and associated areas, including project management, project design, project planning and research.

Visit www.swinburne.edu.au/college for more information.

TAFE courses

Electrical

▶ Advanced Diploma of Engineering Technology – Electrical
specialising in Industrial Automation and Control

Campus: Hawthorn
Duration: Two years
Intake: March, August

This course aims to provide students with the necessary skills and knowledge to evaluate, design, update and implement industrial automation systems to a technical and pre-degree level.

Major study areas
- Business documentation
- Electrical engineering
- Electrical generation engineering
- Hydraulics
- Networks
- Occupational health and safety
- Pneumatics
- Programmable logic controllers (PLCs)
- Programming
- Project management
- Robotics
- Supervisory control and data acquisition (SCADA)

Pathways
Successful completion of this course may allow students to progress to another qualification with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Graduates may find employment as a technical officer performing planning design supervision, project management and engineering liaison.

Electronics and communications engineering

▶ Advanced Diploma of Electronics and Communications Engineering

Campus: Hawthorn
Duration: Two years
Intake: March, August

This course seeks to provide students with a foundation in electronics. It emphasises digital technology, gate array technologies and the application of microprocessor-controlled circuitry, communications and analogue electronics. Students learn how to provide technical leadership in the workplace and to design, commission, test, evaluate and diagnose faults in advanced electronic systems and associated apparatus.

Major study areas
- Analyse, diagnose, fault-find and repair electronic equipment and systems
- Commission advanced electronic systems and equipment
- Identify customer and client needs
- Plan, analyse and design the hardware and control software of complex electronic systems
- Understand the relationship between hardware and software systems

Pathways
Successful completion of this course may allow students to progress to another qualification with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Graduates may work in paraprofessional positions in the procurement, debugging or design fields; as a servicing and maintenance engineer in industries such as mining, telecommunications, transport, entertainment and medical electronics; as a technical officer/manager in public services and defence; as a technical consultant; or as a hardware and software field service engineer.

Engineering technology

▶ Advanced Diploma of Engineering Technology new

with streams in Civil Engineering, Mechanical Engineering, and Robotics and Mechatronics

Campus: Hawthorn
Duration: Two years
Intake: March, August

This course is designed to equip students with the knowledge and skills required for a career in manufacturing, mechanical engineering, design and civil engineering. It aims to provide students with paraprofessional-level training for the mechanical and manufacturing industries, with emphasis on automation systems and structural engineering applications. Students select one specialisation from civil engineering, mechanical engineering or robotics and mechatronics.

Major study areas
- Applying electrotechnology principles in an engineering work environment
- Computer-aided drafting, computer-aided manufacturing and computer-aided engineering
- Construction principles
- Designing mechanical machines
- Managing projects
- Material science
- Performing basic machining processes
- Programming, operating and selecting a robotic system
- Structural analysis and design engineering
- Structural drafting
- Survey engineering

Pathways
Successful completion of this course may allow students to progress to one of the following degrees with advanced standing:

- Bachelor of Engineering (Civil) (Honours)
- Bachelor of Engineering (Mechanical) (Honours)
- Bachelor of Engineering (Product Design) (Honours)
- Bachelor of Engineering (Robotics and Mechatronics) (Honours).

Students may also progress to a range of related double degrees with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Graduates of the civil engineering specialisation may be equipped to manage projects and to analyse, diagnose, design and execute judgements in the civil/structural field. Employment may also be found in construction engineering as technical support or as a technical officer with a water authority or local council.

Graduates of the mechanical engineering specialisation may work as a tool designer, drafting technician, production supervisor, production planner, production controller, estimator or plant and equipment sales technical officer.

Graduates of the robotics and mechatronics specialisation may work as a technician in any engineering industry with automation such as process control. Roles may include drafting technician, production supervisor, production planner, production controller or plant and control equipment sales technical officer.

Professional recognition
Graduates may be eligible to apply for assessment by Engineers Australia for membership at Associate Level (Engineering Officer).

University degrees

Biomedical engineering

▶ Bachelor of Engineering (Biomedical) (Honours)

Campus: Hawthorn
Duration: Four years
Intake: March, August

Biomedical engineering aims to improve human health by integrating engineering with biomedical science and clinical practice. This course emphasises the application of electrical, electronics and systems engineering in medicine and biology. This allows students to explore the applications and challenges associated with biomedical engineering.

Students learn how to develop and use new technologies such as medical, instrumentation and prosthetic devices that can be used to advance and improve health care and the quality of life in communities. Practical workshops and industry projects are key features of the course.

Students apply their learning in a professionally focused, multidisciplinary project during their final year of study. They also undertake at least 12 weeks of relevant work experience and can choose to complete postgraduate-level elective units.

Major study areas
First-year studies include general units in engineering mathematics and energy and motion.

Students also complete units in:
- anatomy and physiology
- biophysics, circuits and electronics
- electronics engineering
- engineering management
- medical imaging and instrumentation systems
- physiological modelling
- the application of physics to biomedical systems.

Career opportunities
With increasing demand for biomedical engineers and engineers with biological expertise, graduates may have a range of exciting career options. They may work in areas such as medical electronics, clinical engineering, medical device design and medical imaging. Potential employers include the public and private sectors, ranging from hospitals to the medical instrumentation and medical diagnostics industries.

Professional recognition
Graduates may be eligible for membership of the Australasian College of Physical Scientists and Engineers in Medicine, and Engineers Australia.

This degree is professionally accredited by Engineers Australia.

Civil engineering

▶ **Bachelor of Engineering (Civil) (Honours)**

Campus: Hawthorn
Duration: Four years
Intake: March, August

Civil engineers are concerned with the design, construction and improvement of our built environment and sustainability is a key consideration for civil engineers. This degree aims to provide students with the 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. It teaches comprehensive engineering theory and offers students hands-on practical experience.

Students apply their learning in a professionally focused, multidisciplinary project during their final year of study. They also undertake at least 12 weeks of relevant work experience and can choose to complete postgraduate-level elective units.

Major study areas

First-year studies include general units in engineering mathematics, energy and motion, and introductory civil engineering.

Students also complete units in:
- computer-aided engineering
- geotechnical engineering
- project management
- road and transport engineering
- structural engineering
- topographical engineering
- water and environmental engineering.

Students may undertake technical specialisation units covering:
- construction
- design
- management of urban infrastructure.

Double degree opportunities

- Bachelor of Engineering (Civil) (Honours)/Bachelor of Business

Visit www.swinburne.edu.au/international for more information.

Career opportunities

Graduates may find work as a planner, designer, construction manager, project engineer, researcher or forensic engineer. Graduates may also be prepared for roles in the development of new public and private infrastructure projects, resolution of water availability and salinity issues, development of green energy infrastructure, sustainable development in natural resource projects, implementation of intelligent transport systems and upgrading ageing infrastructure.

Professional recognition

Graduates may be eligible for membership of Engineers Australia.

This degree is professionally accredited by Engineers Australia.

Construction

▶ **Bachelor of Engineering (Construction) (Honours)** `new`

Campus: Hawthorn
Duration: Four years
Intake: March, August

Construction engineers are concerned with the design, construction and improvement of our built environment, as well as the management of on-site projects. This course aims to provide students with the technical expertise and management skills needed to plan, design, construct and maintain facilities such as buildings, bridges, dams, water supply systems, waste treatment systems, road and rail networks, airports and seaports.

The course teaches comprehensive theory and offers students hands-on practical experience in construction engineering and management areas. It may be suitable for students who wish to work in the engineering field in a hands-on, on-site role.

Students apply their learning in a professionally focused, multi-disciplinary project during their final year of study. They also undertake at least 12 weeks of relevant work experience and can choose to complete postgraduate-level units of study

Major areas of study

- Computer-aided engineering
- Construction engineering and management
- Construction law and contracts
- Construction quality and practices
- Design of constructed structures
- Design of temporary structures
- Project and construction planning
- Structural mechanics

Career opportunities

Graduates may explore opportunities in a range of construction engineering and management roles such as construction engineer, construction manager, site engineer, project engineer, project manager, civil engineer or asset management engineer across a number of industries, including consulting engineering, construction, research organisations, the private sector or government.

Professional recognition

Graduates may be eligible for membership of Engineers Australia.

Electrical and electronic engineering

▶ **Bachelor of Engineering (Electrical and Electronic) (Honours)**

Campus: Hawthorn
Duration: Four years
Intake: March, August

Combining mathematics, science and technology, electrical and electronic engineers design, implement and manufacture electrical and electronic systems and devices at the centre of modern society. They are responsible for a range of technologies, including global positioning systems (GPS) that can accurately locate a vehicle in real time and giant electric power generators.

This course aims to provide students with technical expertise in power system design, electronics, control systems, signal processing and embedded systems. Students learn how to apply their skills and knowledge in the design, construction, operation and maintenance of electronics and electrical energy infrastructure. They have the opportunity to work on projects to design renewable energy systems, electric batteries, electric motor control with regenerative braking, or an electric car.

Students undertake at least 12 weeks of relevant work experience and can choose to complete postgraduate-level elective units during their final year of study.

Major study areas

First-year studies include general units in engineering mathematics and energy and motion.

Students also complete units in:
- analogue and digital electronics
- control and robotic systems
- engineering management
- integrated circuit design
- power electronics and electric machines
- power system design, modelling, operation and control
- renewable energy systems.

Students also select from software engineering, specialist, technical and business management units.

Double degree opportunities

- Bachelor of Engineering (Electrical and Electronic) (Honours)/Bachelor of Business

Visit www.swinburne.edu.au/international for more information.

Career opportunities

Graduates may find employment as a design engineer, project planner, product designer or project manager in a range of industries including robotics, aerospace, power systems infrastructure, electronics, manufacturing and industrial research.

Professional recognition

Graduates may be eligible for membership of Engineers Australia.

This degree is professionally accredited by Engineers Australia.

Electronics and computer systems

▶ **Bachelor of Engineering (Electronics and Computer Systems) (Honours)**

Campus: Hawthorn
Duration: Four years
Intake: March, August

In this course students learn how to design, construct, develop and test complex electronics and computer-based systems. The course covers the overlapping fields of computer hardware and software, telecommunications, electronics and electrical systems applications. It course teaches fundamentals in science and technology, and problem-solving skills. Students have the opportunity to develop design expertise in electronics, computer systems and software engineering. They also select a specialisation from embedded systems, programmable hardware design, programming or artificial intelligence.

The course seeks to cultivate logical and lateral thinking through practical hands-on workshops and industry-based projects to prepare students for professions characterised by the growth of new technologies.

Students apply their learning in a professionally focused, multidisciplinary project during their final year of study. They also undertake at least 12 weeks of relevant work experience and can choose to complete postgraduate-level elective units.

Major study areas

First-year studies include general units in engineering mathematics and energy and motion.

Students also complete units in:
- analogue and digital electronics design
- digital signal processing and hardware implementation
- engineering project management
- hardware description languages
- principles of embedded systems
- software engineering
- system on chip
- telecommunication, automation and control.

Double degree opportunities
- Bachelor of Engineering (Electronics and Computer Systems) (Honours)/Bachelor of Business
- Bachelor of Engineering (Electronics and Computer Systems) (Honours)/Bachelor of Computer Science

Visit www.swinburne.edu.au/international for more information.

Career opportunities

Graduates may be able to work in a diverse range of environments designing innovative products for the aerospace, computer programming, defence, industrial and power electronics, medical imaging systems, power generation, renewable energy and smart grid design, manufacturing, robotics and telecommunications industries.

Professional recognition

Graduates may be eligible for membership of Engineers Australia.

This degree is professionally accredited by Engineers Australia.

Mechanical engineering

▶ **Bachelor of Engineering (Mechanical) (Honours)**

Campus: Hawthorn
Duration: Four years
Intake: March, August

Mechanical engineers design technologies requiring physical motion and, in doing so, sustain and transform every aspect of life. They have created wind turbines, artificial hearts and limbs, intensive-care equipment, trains, cars, ships, aircraft and mining machinery. Sustainability is a key consideration for mechanical engineers as they develop solutions to engineering problems in a way that efficiently uses energy and natural resources.

This course teaches the core concepts of mechanics, kinematics, thermodynamics, fluid mechanics and energy. It seeks to take students beyond the classroom and they participate in industry projects and practical workshops.

Students apply their learning in a professionally focused, multidisciplinary project during their final year of study. Topics may include modelling bushfire behaviour, creating renewable energy technology or developing the Formula SAE electric race car. They also undertake at least 12 weeks of relevant work experience and can choose to complete postgraduate-level elective units.

Major study areas

First-year studies include general units in engineering mathematics and energy and motion.

Students also complete units in:
- control systems
- engineering management
- machine dynamics
- materials engineering
- mechanics of structures
- solid and fluid mechanics
- thermodynamics.

Students may select elective units from specialist and technical areas including:
- aviation
- biomedicine
- design
- future manufacturing
- mathematical physics
- sustainable futures.

Double degree opportunities
- Bachelor of Engineering (Mechanical) (Honours)/ Bachelor of Business

Visit www.swinburne.edu.au/international for more information.

Career opportunities

Graduates may find employment in the aerospace, automotive, biomedical, building services, consulting engineering, defence, finance, manufacturing, maritime engineering, materials processing, mining, power generation, renewable energy, research and development, and transport industries. This may include roles in design, development, testing, innovation, quality control, project management, planning, research and engineering management.

Professional recognition

Graduates may be eligible for membership of Engineers Australia.

This degree is professionally accredited by Engineers Australia.

Product design engineering

▶ **Bachelor of Engineering (Product Design) (Honours)**

Campus: Hawthorn
Duration: Four years
Intake: March, August

Product design engineers have a unique skill set that enables them to design innovative, sustainable products. 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. Students have the opportunity to develop skills needed to design and develop competitive products for Australian and international markets.

Practical workshops and industry projects are key features of the course. Students may choose a minor specialisation in manufacturing engineering, biomedical engineering or electronic engineering.

Students apply their learning in a professionally focused, multidisciplinary project during their final year of study. They also undertake at least 12 weeks of relevant work experience and can choose to complete postgraduate-level elective units.

Major study areas

First-year studies include industrial design units and general units in engineering mathematics and energy and motion.

Students also complete units in:
- computer-aided design
- computer modelling and simulation
- design and culture
- design for manufacturing
- engineering management
- innovative design methodology
- mechanical design
- product design interaction
- product development
- product innovation
- sustainable design.

Career opportunities

Graduates may find employment in the engineering or industrial design fields, or in product design engineering. This may include roles in the design, development and manufacture of products for personal, medical or industrial use.

Professional recognition

Graduates may be eligible for membership of the Design Institute of Australia and Engineers Australia.

This degree is professionally accredited by Engineers Australia.

Robotics and mechatronics

▶ **Bachelor of Engineering (Robotics and Mechatronics) (Honours)**

Campus: Hawthorn
Duration: Four years
Intake: March, August

Mechatronic engineers design and develop diverse systems for a range of industries, including manufacturing, medicine and the service industries. The field encompasses exciting advances in technology, from automated assembly plants to driverless vehicles.

This course integrates three traditional engineering disciplines – mechanical, electronics and software. Students learn how to use multidisciplinary skills to meet growing demand from an industry that is pushing the limits of technology.

Practical workshops and industry projects are key features of the course and students choose from a wide range of projects. Students also have the opportunity to undertake postgraduate-level elective units in their final year of study.

Major study areas

First-year studies include general units in engineering mathematics and energy and motion.

Students also complete units in:
- computer-aided engineering
- control systems
- electronics
- machine dynamics and design
- mechatronics systems design and development
- programming
- project management
- structural mechanics.

Double degree opportunities
- Bachelor of Engineering (Robotics and Mechatronics) (Honours)/Bachelor of Business
- Bachelor of Engineering (Robotics and Mechatronics) (Honours)/Bachelor of Computer Science

Visit www.swinburne.edu.au/international for more information.

Career opportunities

Graduates may be prepared for roles as a design engineer, project planner/manager or product designer in industries such as robotics, airlines, chemical, automotive, appliance manufacturing and industrial research.

Professional recognition

Graduates may be eligible for membership of Engineers Australia.

This degree is professionally accredited by Engineers Australia.

Software engineering

See Bachelor of Computer Science on page 61 and Bachelor of Engineering (Software Engineering) (Honours) on page 63.

Telecommunications and network engineering

See Bachelor of Engineering (Telecommunication and Network Engineering) (Honours) on page 63.

Film and Television ▶

A Swinburne course in film and television can help you master production skills, develop your scriptwriting talents and begin your career in cinematography, animation, special effects and more. You can learn how to harness your natural creativity and apply it in industry.

International award winners

In 2013 Bachelor of Film and Television students and graduates were prevalent at local and international film festivals.

Directed and produced by Nicole Tan during her final year of study, *I Dream a Geisha* won the Best Tertiary Animation award at the Australian Teachers of Media (ATOM) Awards. The film is a chalkboard stop-motion animation about a girl, Kiyomi, an aspiring geisha who dreams of one day wearing an elaborate kimono.

Written by Natalie Nalesnyik, short film *Thin Air* won the SBS2 TV Award at the St Kilda Film Festival. The film was made by a group of Swinburne students during their final year in 2011. *Thin Air* explores the themes of abuse, power and manipulation through the eyes of a gymnast witnessing the relationship between her coach and a fellow athlete.

Short film *We Keep on Dancing* by graduates and current students, including director Jessica Barclay Lawton and writer Rhys Mitchell, won the award for Best Live Action Short 15 Minutes and Under at the prestigious Palm Springs International ShortFest in California. The film is a romantic comedy about two disparate characters who come together over a broken-down Volkswagen Beetle.

Study animation

Our Bachelor of Film and Television (Animation) aims to provide a broad understanding of film in all genres with an emphasis on animation. Study areas include 2D, 3D and stop-motion animation; scriptwriting and directing; and character, environment and sound design for animation. Production facilities include state-of-the-art film, television and animation workstations; interactive pen displays; high-end still, video and film cameras; and render farm access for creating professional-quality work.

Finding the right course

A film and television course could be right for you if your interests include:

- making movies
- reviewing movies
- creative collaborations
- moving images
- telling stories
- popular culture
- visual and sound media
- working with ideas to express them creatively.

These courses can lead to careers such as:

- animator
- cinematographer
- digital media technician
- director
- film/video/sound editor
- post-production manager
- producer
- production manager
- scriptwriter
- sound or lighting specialist
- video game and interactive media designer
- visual effects artist.

TAFE courses

Animation

▶ **Advanced Diploma of Screen and Media** `new`
specialising in Digital Media Animation

▶ **Diploma of Screen and Media** `new`
specialising in Digital Media Animation

Campus: Hawthorn

Duration: *Advanced diploma* – One year
Diploma – One year
Total duration – Two years

Note: These courses are usually taken in combination. Units from the diploma are prerequisites for the advanced diploma.

Intake: March

These courses offer students a range of skills in creative and technical applications of motion graphics and animation. Students also learn about screen and media processes.

Major study areas
- 2D and 3D animation
- 3D design
- Digital video and sound design
- Production planning and processes
- Research projects

Pathways
Successful completion of these courses may allow students to progress to the Bachelor of Design (Digital Media Design) or Bachelor of Film and Television (Animation) with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Graduates may find careers in design or the film and television industry in roles involving 3D modelling, 2D and 3D animation, web animation, visual effects, motion graphics or film title design.

Professional recognition
Graduates may be eligible for membership of the Australian Graphic Designers Association.

Film and television

▶ **Advanced Diploma of Screen and Media**
specialising in Film and Television

▶ **Diploma of Screen and Media**
specialising in Film and Television

Campus: Hawthorn

Duration: *Advanced diploma* – One year
Diploma – One year
Total duration – Two years

Note: These courses are usually taken in combination. Units from the diploma are prerequisites for the advanced diploma.

Intake: March

These courses seek to provide students with in-depth knowledge of the filmmaking production process and its related technical aspects of camera operation, sound recording, non-linear editing, script development and interpretation, and project management. Students have the opportunity to develop productions within a broad cultural and theoretical context through research projects and studies in media theory.

Major study areas
- Directing
- Editing
- Lighting
- Pre- and post-production
- Production planning and processes
- Recording/mixing process
- Scriptwriting
- Sound recording and production
- Television/studio production

Pathways
Successful completion of these courses may allow students to progress to the Bachelor of Film and Television with advanced standing.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities
Graduates may find employment in the film and television industry or as an independent producer, director, editor or special effects developer.

University degrees

Animation

▶ **Bachelor of Film and Television (Animation)**

Campus: Hawthorn
Duration: Three years
Intake: March

This course aims to provide students with a broad understanding of animation through the practice of animation techniques. It explores film, television and animation history and theory; and the development of narrative structures as applied to animation.

The course emphasises project work and students have the opportunity to develop creative, analytical and research skills in all aspects and types of animation production. They select an animation specialisation to extend their skills and knowledge in a professional form of animation technique and style. Specialisations include 2D animation, 3D animation, stop-motion animation and motion graphics.

Swinburne also offers an honours (fourth) year for this degree.

Major study areas
- 2D character animation
- Animation technologies
- History and practice of animation
- Hollywood cinema
- Imaging for narrative and storyboards
- Introduction to genre
- Screen literacy and contemporary cinema
- Scriptwriting and directing
- Sound design and acquisition
- Writing for animation

Career opportunities
Graduates may explore career opportunities in advertising, cinema, games or film and television production, as well as in emerging digital entertainment and visualisation industries where animation is increasingly used for highly detailed, conceptual and narrative visual forms such as in architecture, education, engineering, medical imaging and science areas.

Professional recognition
Graduates may be eligible for membership of the Australian Cinematographers Society, Australian Graphic Designers Association, Australian Screen Editors Guild, Design Institute of Australia, Game Developers' Association of Australia, Melbourne Art Directors Club, Screen Producers Association of Australia and Screen Services Association of Victoria.

Film and television

▶ Bachelor of Film and Television

Campus: Hawthorn
Duration: Three years
Intake: March

This course seeks to provide students with the essential creative skills, technical knowledge and theory to make high-quality cinema, television and digital media productions. Students have the opportunity to collaborate to make films through research, screenwriting, direction, project management and production skills such as cinematography, sound editing and visual effects. Creative outcomes may include narrative films, documentaries, animations, experimental films, music videos and television commercials.

Students are encouraged to participate in study tours and international exchange programs to enhance their filmmaking skills.

Swinburne also offers an honours (fourth) year for this degree.

Major study areas

- Advanced post-production and digital outcomes
- Cinematography and lighting
- Digital post-production techniques
- Directing
- Documentary production
- Post-production and editing
- Producing
- Production management
- Production techniques
- Screen literacy and contemporary cinema
- Scriptwriting
- Sound design and acquisition

Career opportunities

Graduates may be equipped to explore a career in cinematography, directing, producing, scriptwriting, editing or sound roles in documentary, television or film production contexts. They may also be prepared for advertising, animation or video post-production roles, or business roles in the film and television industries.

Professional recognition

Graduates may be eligible for membership of the Australian Cinematographers Society, Australian Graphic Designers Association, Australian Screen Editors Guild, Melbourne Art Directors Club, Screen Producers Association of Australia and Screen Services Association of Victoria.

'My course has provided a broad range of interesting and engaging subjects. I've particularly enjoyed the science-based subjects such as microbiology and food science. One of the highlights was conducting laboratory analysis on the bacteria that exist on your hands and in your mouth – that was an eye-opener! Swinburne ensures that students don't feel like just a number, and is large enough and connected with industry to provide the best opportunities for students' development and growth.'

Roselyn
Bachelor of Health Science (Public and Environmental Health)

Health Sciences and Community Care ▶

By undertaking a health sciences and community care course you'll have the opportunity to examine the physical, psychological and social aspects of health in a variety of settings. These could include applying psychology to sporting teams, creating policies and laws to support health choices, or providing advice on food safety for communities and the food industry.

Make connections with industry

Your health sciences degree can take you beyond the classroom to engage with industry and better prepare you for your career.

Final-year projects, called Capstone Projects, engage students from across multiple disciplines and allow you to put your learning into practice. You could contribute to an industry or community project, competition submission, research-based project or internally developed project.

Finding the right course

A health sciences and community care course could be right for you if your interests include:

- applying compassionate qualities to your work
- community and social welfare
- health promotion
- human behaviour
- making a difference to society
- nutrition and food science
- psychology
- public health issues
- social justice
- sport science
- working with children.

These courses can lead to careers such as:

- alcohol and drugs counsellor
- childcare worker
- child protection worker
- community development officer
- community health worker
- environmental health officer
- food scientist
- health educator
- psychologist
- youth and family support worker.

Community health

▶ Bachelor of Community Health

Campus: Hawthorn

Note: Students may be required to attend more than one campus and some units may be available online.

Duration: Three years

Intake: March, August

This course is structured as an 'integrated' degree, providing an opportunity for students to receive an Associate Degree of Health and Community Care. The focus of the course is understanding and improving the health status of individuals and communities in different social settings.

The first two years comprise the associate degree – year one includes units in policy, communication and counselling; year two includes units in community care. The third year of the course focuses on high-level community health engagement, including evaluating environmental health services, public and environmental health, policy and sociological models relevant to health.

Major study areas
- Community and public health
- Occupational health and safety
- Philosophy
- Psychology
- Public policy and planning
- Sociology of health

Career opportunities

Graduates may be equipped for careers in community and public health promotion and planning, policy development, social research, risk management, health education and counselling.

▶ Associate Degree of Health and Community Care

Campus: Hawthorn

Note: Students may be required to attend more than one campus and some units may be available online.

Duration: Two years

Intake: March, August

This degree comprises one year with a focus on policy, communication and counselling, and one year focused on community care.

Following successful completion of the course students may choose to undertake an additional year of study (a third year), which will allow them to graduate with a Bachelor of Community Health.

Major study areas
- Community development
- Counselling
- Health and safety
- Organisations and management
- Policy
- Sociological, health and community care

Career opportunities

Employment may be found in community and public health promotion and planning, policy development, social research, risk management, health education and counselling.

Health science

▶ Bachelor of Health Science

Campus: Hawthorn

Duration: Three years

Intake: March, August

This practical, multidisciplinary course explores Australian and international health challenges from a range of perspectives. With a focus on assisting and improving the wellbeing of communities and groups, the course examines the physical, psychological and social aspects of health in a variety of settings. These include educating remote communities in the principles of health, applying psychology to sporting teams, creating policies and laws to support healthy choices, and providing advice on food safety to communities and the food industry.

Major study areas

Health Promotion: This major explores the fields of public and preventative health in an Australian and international context. The focus is on the practical application of health promotion strategies for a range of contemporary health issues such as cancer and obesity. Students learn how to plan and evaluate evidence-based programs, and have the opportunity to develop skills in other public health areas such as health policy, social marketing, epidemiology and research.

Nutrition: This major examines the relationships between diet, health and disease, and how we can apply these principles to public health issues. Students have the opportunity to explore issues relating to nutritional science, food science and food sources, from a biological, psychological, cultural and social perspective.

Psychology: This major examines how behavioural and social factors relate to health, wellness and disease. For example, how we adjust to, and cope with, illness, stress and pain; and what the potential is for behaviour and lifestyle change. Students learn how to apply psychological practices and principles to a range of health issues focusing on developmental, social and abnormal psychology; cognition; and personality.

Sport Science: This major examines the scientific factors involved in physical activity, wellbeing, exercise and sports performance. Students have the opportunity to develop in-depth knowledge about the application of health science in sport, exploring exercise physiology, motor learning and skill acquisition, biomechanics, and psychology of sport and exercise. Development and monitoring of skills-performance activities, injury rehabilitation, and talent identification and development are also covered.

Career opportunities

Health science graduates are in high demand and may find employment in government, business and the community, or health service providers, as laboratory or community-based researchers, in health promotion and policy roles, or in roles in sporting groups or schools.

Professional recognition

Graduates may be eligible for membership of the Australian Health Promotion Association, Exercise and Sports Science Australia, and Nutrition Society of Australia.

The three-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council (APAC). Swinburne also offers an APAC-accredited honours (fourth) year in psychology.

Public and environmental health

▶ Bachelor of Health Science
(Public and Environmental Health)

Campus: Hawthorn
Duration: Three years
Intake: March, August

This multidisciplinary course aims to provide students with the knowledge to assist in the protection of the environment and the health of people living within it. Students have the opportunity to gain expertise in planning and implementing programs in public health and environmental protection, and to develop skills in risk analysis, disease prevention and working with diverse communities.

Major study areas
- Biology and microbiology
- Chemistry (environmental)
- Environmental health and sustainability
- Food science, quality management and safety
- Health sciences, policy and promotion, and administration
- Law (public and environmental health)
- Occupational health and safety
- Public health
- Risk analysis and management

Career opportunities
Graduates may find employment as an environmental health officer or work in the areas of health promotion, policy development, foreign aid, communicable disease investigation, environmental science, immunisation coordination, sustainability, public and community health planning, food and waste management, private consultancies and research positions.

Professional recognition
This degree is professionally accredited by Environmental Health Australia, qualifying graduates to work in environmental health officer positions.

'Swinburne has fantastic teaching staff. They are always open to students asking questions and are very helpful and honest. During my course I have been able to study a broad range of ICT subjects and I've enjoyed gaining an understanding in these fields. If you are engaged and interested, you can definitely gain solid foundations for a future career by studying at Swinburne.'

Nathan
Bachelor of Information and Communication Technology
(Network Design and Security)

Information and Communication Technologies ▶

Dynamic and constantly evolving, the field of information and communication technologies (ICT) provides exciting and challenging career opportunities. ICT is the backbone of many industries – health, transport, finance, media, manufacturing and automotive – so the skills you'll learn will be highly valued by many employers.

Use cutting-edge technology

Students studying networking may have the opportunity to work with equipment used in industry to create live network systems in our three state-of-the-art Cisco networking labs.

Research excellence

Our commitment to high-quality teaching and research was reflected in our rating for computer software of 'above world standard' in the Australian Government's *Excellence in Research for Australia 2012* report. Swinburne was the highest rated university in this field in Victoria.

Our researchers foster extensive national and international networks and connections with industry, providing excellent opportunities for Swinburne students.

Finding the right course

An ICT course could be right for you if your interests include:

- developing software programs, models and processes to solve problems
- software development for mobile or web applications
- creating innovative technology
- coming up with creative solutions to problems
- guiding business decisions through analytics.

These courses can lead to careers such as:

- applications developer
- business analyst
- computer programmer
- database administrator
- games designer/developer/programmer
- information technology consultant
- mobile application developer
- multimedia developer/programmer
- network designer/administrator
- network security analyst
- software engineer
- systems analyst
- telecommunication network engineer
- user-interface analyst
- web developer.

Degree Transfer Programs

Information technology

▶ Diploma of Information Technology (UniLink)

Campus: Hawthorn
Duration: Eight months
Intake: February, June, October

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.

Major study areas

- Communication for information technology
- Database analysis and design
- Information communication technology environments
- Introduction to business information systems
- Introduction to programming .Net
- Requirements analysis and modelling
- Web development

Pathways

On successful completion of this course, students may progress to the second year of a Bachelor of Business Information Systems or Bachelor of Information and Communication Technology.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities

After completion of their chosen degree, graduates may find employment in database administration, electronic publishing, information architecture, internet systems development, online entertainment, multimedia application design, project management, software development, network security, systems analysis or web design.

Visit www.swinburne.edu.au/college for more information.

TAFE courses

Computer systems technology

▶ Advanced Diploma of Computer Systems Technology new

▶ Certificate IV in Computer Systems Technology new

Campus: Hawthorn
Duration: *Advanced diploma* – One year
Certificate – One year
Total duration – Two years
Note: These courses are usually taken in combination. Units from the Certificate IV are prerequisites for the advanced diploma.
Intake: March

These courses aim to provide students with the skills and knowledge needed to coordinate and administer the commissioning, installation and maintenance of a range of networks, enterprise servers and systems. Students have the opportunity to gain a solid background in and theoretical knowledge of hardware and software components of modern computing systems.

Major study areas

- Analysis, diagnosis and fault-finding of computer systems and equipment
- Commissioning advanced computer systems and equipment, including local and wide-area networks
- Client-needs analysis
- Planning, analysing and designing complex computer systems

Pathways

Successful completion of the advanced diploma may allow students to progress to one of the following degrees with advanced standing:

- Bachelor of Business Information Systems
- Bachelor of Computer Science
- Bachelor of Computer Science (Games Development)
- Bachelor of Information and Communication Technology
- Bachelor of Information and Communication Technology (Network Design and Security).

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities

Employment may be found in roles such as IT administrator or coordinator; IT operations administrator or coordinator; network services, network e-business, network support or network security administrator or coordinator; or network operations analyst. Alternatively, graduates may pursue further studies in information technology.

Information technology networking

▶ Diploma of Information Technology Networking

▶ Certificate IV in Information Technology Networking

Campus: Hawthorn
Duration: *Diploma* – One year
Certificate – One year
Total duration – Two years
Note: These courses are usually taken in combination. Units from the Certificate IV are prerequisites for the diploma.
Intake: March

In these courses students have the opportunity to gain the skills and knowledge needed to install and manage simple networks either as an independent ICT specialist or as part of a team. Students learn how to install and administer Linux and Microsoft operating systems, and network security. Students may also have the opportunity to undertake the Cisco Certified Network Associate program.

Major study areas

- Computer hardware
- Network administration, design, management, systems and security
- Networks and data communications
- Operating systems
- PC support
- Risk analysis and management
- Systems security and controls
- Systems testing

Pathways

Successful completion of the diploma may allow students to progress to one of the following degrees with advanced standing:

- Bachelor of Business Information Systems
- Bachelor of Computer Science
- Bachelor of Computer Science (Games Development)
- Bachelor of Information and Communication Technology
- Bachelor of Information and Communication Technology (Network Design and Security).

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities

Graduates may find employment in roles such as customer support, database support, help-desk specialist, network support technician, PC support technician or user support technician. Alternatively, graduates may undertake further study in computing, network design and security, telecommunications and related areas.

Business information systems

▶ Bachelor of Business Information Systems

Campus: Hawthorn
Duration: Three years
Intake: March, August

Information systems (IS) address how people, information, computers, networks and processes come together to create cohesive business solutions. This course is designed to prepare students for immediate entry into the management of business IS in organisations. Students have the opportunity to learn some technical skills, but more emphasis is placed on business analysis and problem-solving, systems analysis, project management, the provision of IS services, social networking in organisations, mobile business and connectivity, and the management of information systems in organisations.

Major study areas
Areas of study include:
- business analysis
- business process modelling
- database design, implementation and management
- enterprise systems
- mobile business and connectivity
- programming (.NET)
- project management
- risk and security
- systems acquisition and implementation management.

Students may also select elective units and build skills in ICT, business, social science or design.

Double degree opportunities
- Bachelor of Business Information Systems/ Bachelor of Business

Visit www.swinburne.edu.au/international for more information.

Career opportunities
Graduates may pursue a career in business analysis, business process analysis, business requirements analysis, project management, enterprise systems consultancy, business relationship management or business development.

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

Computer science

▶ Bachelor of Computer Science

Campus: Hawthorn
Duration: Three years
Intake: March, August

In this course students learn about software development and have the opportunity to gain a sound understanding of the traditional aspects of computer science. The course focuses on contemporary approaches to application development involving mobile devices and web-based systems, with an emphasis on the design and implementation of effective human–computer interfaces.

Students may have the opportunity to study advanced units in areas such as artificial intelligence, games programming, computer networks, database management, enterprise systems and advanced programming. The course also aims to develop skills in a range of programming languages, including C++, C#, Objective C and Java.

The course is oriented towards applications in business contexts such as defence, aerospace and medicine, where complex software plays a major role, as well as other industries that require extensive technological support such as banking and manufacturing.

Major study areas
- Computer and logic essentials
- Computer systems
- Creating secure and scalable software
- Data management
- Data structures and patterns
- Interface design and development
- Professional issues in information technology
- Programming
- Software development tools and practices
- Software engineering
- Software project practices and management
- User-centred design

Double degree opportunities
- Bachelor of Arts (Games and Interactivity)/Bachelor of Computer Science
- Bachelor of Engineering (Electronics and Computer Systems)/ Bachelor of Computer Science
- Bachelor of Engineering (Robotics and Mechatronics)/ Bachelor of Computer Science
- Bachelor of Engineering (Telecommunication and Network Engineering)/ Bachelor of Computer Science

Visit www.swinburne.edu.au/international for more information.

Career opportunities
Graduates may find employment in organisations engaged in medium- to large-scale software development, in technical areas such as web programming, software design and engineering, user-interface engineering, software testing, usability, systems analysis and design, and project management.

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

Games development

▶ Bachelor of Computer Science (Games Development)

Campus: Hawthorn
Duration: Three years
Intake: March, August

This specialist ICT course focuses on the design and programming of computer games and other interactive software. Major areas of study include software development using an object-oriented approach and specialist areas in games design and development.

Students learn about the creative and design aspects of multimedia and internet technologies, particularly as applied to games development. The course also includes units in database, networking and project management, and may provide good preparation for general software design and development careers, as well as specialist careers in the games industry.

Major study areas
- Artificial intelligence for games
- Databases
- Digital media, video and graphics
- Game design
- Games and graphics programming
- Programming (Java, C++, C#)
- Secure and scalable applications
- Software engineering
- Web technologies

Career opportunities
Areas of initial employment may include game design and development, multimedia development and general software design and development, with opportunities to move into team leader and project management roles after gaining experience.

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

Information and communication technology

▶ Bachelor of Applied Information and Communication Technology

Campus: Hawthorn
Duration: Three years
Intake: March

The focus of this course is on software and web development. The course also includes a range of ICT studies such as databases, networking, computer systems and project management. It has a practical approach with an emphasis on problem-solving and project work.

The first year aims to provide students with a supportive learning environment with small classes and additional contact hours for each class. Students may apply to be awarded a Diploma of Information Technology on successful completion of the first-year units. The second and final years of the course include elective units that are designed to allow students to broaden their focus or specialise in a specific ICT discipline.

Major study areas
- Database analysis and design
- Database and computer systems
- IT security
- Mobile application development
- Networking
- Operating systems
- Programming (C#, C++, Java)
- Project management
- Software engineering
- Usability and user-centred design
- Web development

Career opportunities
Employment may be found in roles such as applications developer, quality assurance analyst, project manager, multimedia developer, mobile application developer, systems architect, business requirements analyst, application integration specialist and user-interface analyst.

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

▶ Bachelor of Information and Communication Technology

Campus: Hawthorn
Duration: Three years
Intake: March, August

This course aims to provide students with the knowledge and skills to be an information and communication technology professional, with particular skills in a chosen area. The course focuses on computer and network configurations, web and application programming, and database design and maintenance. Students also have the opportunity to specialise in a particular aspect of ICT-related work. This course may suit students who are seeking an ICT course with flexible outcomes.

Major study areas
- Business analysis
- Business systems
- Network technology
- Software technology
- Systems management

Career opportunities
Graduates may be prepared for roles in a range of areas including software-related functions, ICT infrastructure maintenance, database administration, business analysis and systems integration. Depending on the specialisation chosen, graduates may also find roles in areas such as mobile applications, games design, software development, business intelligence or project management.

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

Network design and security

▶ Bachelor of Information and Communication Technology (Network Design and Security)

Campus: Hawthorn
Duration: Three years
Intake: March, August

This flexible course has been designed to meet growing industry demand for graduates who are able to secure information and communication systems and are competent in computer network technologies and security. Students study programming, internet technologies, systems analysis and design, database technologies and software engineering, as well as advanced topics in computer networks and security.

On completion, students may be able to evaluate and manage computing networks and business information systems, and may have the capacity to develop secure software applications, including web, database and information management projects.

The course also has a strong industry focus that is designed to prepare students for certification as a Cisco Certified Network Associate and for Microsoft certifications.

Major study areas
- Data management
- eForensics
- IT security
- Network administration
- Network security and resilience
- Programming (C#, C++, Java)
- Project management
- Risk and security
- Routing and switching
- Web technologies
- Windows operating system management

Career opportunities
Employment may be found as an information security analyst, network security professional, information security professional, IT systems administrator, network administrator, systems administrator, programmer, web developer or database administrator.

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

Software engineering

▶ Bachelor of Engineering (Software Engineering) (Honours)

Campus: Hawthorn
Duration: Four years
Intake: March, August

Software engineers design, implement, test, maintain and manage projects for the engineering of complex software systems. This course covers 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. The course also includes units in the engineering of embedded software systems, systems engineering and mobile applications.

Students have the opportunity to gain a professional understanding of the science and engineering principles underlying software and systems engineering, in addition to a solid foundation in general engineering principles. The course covers both the fundamentals and more advanced topics in software and systems engineering, including design, quality assurance, implementation and deployment.

The course also offers students the opportunity to gain specialised skills in a variety of areas, including telecommunications, robotics and mechatronics, pervasive computing and mobile application development.

Major study areas
- Electronics
- Engineering management
- Enterprise programming
- Mathematics
- Programming (C++ and Java)
- Project management
- Software architecture
- Software system design
- Usability and user-centred design

Career opportunities
Graduates may find employment in a variety of roles, including software engineer, quality assurance engineer, systems engineer, software architect, software designer and developer, and embedded systems and mobile application engineer. Employment opportunities may exist in organisations engaged in medium- to large-scale software development projects in areas such as defence and aerospace, manufacturing, control systems, banking and finance.

Professional recognition
Graduates may be eligible for membership of Engineers Australia.

This degree is professionally accredited by the Australian Computer Society and Engineers Australia.

Telecommunication and network engineering

▶ Bachelor of Engineering (Telecommunication and Network Engineering) (Honours)

Campus: Hawthorn
Duration: Four years
Intake: March, August

Telecommunication and network engineers design, implement and facilitate the communication infrastructure of businesses, ensuring information flow is not interrupted or slowed. Telecommunication engineers are capable of developing sophisticated systems such as cellular mobile communication networks, broadband multimedia computer networks, and radio and television broadcasting systems.

This degree aims to provide students with a professional understanding of the science and engineering principles underlying telecommunication and network engineering, and the ability to apply that knowledge. Students have the opportunity to acquire a detailed understanding of appropriate engineering methods and techniques, and to gain competence in their application. Elective units are designed to prepare students to obtain both Cisco Systems and Microsoft Industry certifications.

Detailed theoretical learning is coupled with extensive practical experience in various aspects of networking and signal analysis used in telecommunications and networking.

Major study areas
- Communications theory and principles
- Electronics
- Engineering management
- Enterprise services and security
- Mathematics
- Network design and security
- Network modelling and analysis
- Programming
- Wireless communications

Double degree opportunities
- Bachelor of Engineering (Telecommunication and Network Engineering) (Honours)/Bachelor of Business
- Bachelor of Engineering (Telecommunication and Network Engineering) (Honours)/Bachelor of Computer Science

Visit www.swinburne.edu.au/international for more information.

Career opportunities
Graduates may find employment in the ICT industry in a range of areas including the design, installation and commissioning of telecommunications equipment; management of next-generation telecommunications systems; management and optimisation of telecommunications performance; network design and security; network analysis; telecommunications and network product management; marketing; and senior sales management.

Professional recognition
Graduates may be eligible for membership of Engineers Australia.

This degree is professionally accredited by the Australian Computer Society and Engineers Australia.

'I love the combination of design and business units in my course. It allows me to explore my creative ideas and teaches me how to apply my ideas and skills in the workplace. My teachers were very dedicated and committed to helping me achieve my best. Their industry experience means they have a lot of insight and knowledge, and they were available to help me with my work or answer any questions even outside of class time.'

Jade
Bachelor of Communication (Advertising)

Media and Communications ▶

A media and communications qualification could be your entry point into a wide range of exciting career opportunities. You'll have the opportunity to discover how to develop innovative communications campaigns, learn about digital media technologies and the way media is evolving, and explore the connections between media, public relations and design.

Our career-focused courses can give you the latest skills employers are looking for across a wide range of communications positions, including writing, production and media analysis. Courses may also provide opportunities for membership with key industry associations.

Get involved in The *Burn* magazine

Produced by and for students at Swinburne, The *Burn* magazine provides an opportunity for media, communications, journalism, public relations, advertising, design and digital media students to use the skills gained throughout their degree and experience the process of producing a magazine from conception to print.

An option in the journalism final-year Capstone Project, the project replicates a real magazine publishing environment, complete with the demands, deadlines and expectations required to produce a professional publication. Anyone with an idea can contribute to the magazine or accompanying website.

Finding the right course

A media and communications course could be right for you if your interests include:

- news media
- understanding what motivates people
- writing and editing
- blogging, the internet and social media
- social justice
- improving your community
- social groups and interactions.

These courses can lead to careers such as:

- advertising coordinator
- art director
- audio/video engineer
- copywriter
- digital media designer/developer
- editor
- journalist
- marketing professional
- media officer
- multimedia designer/developer
- online writer or editor
- production assistant
- public relations professional
- writer.

University degrees

Advertising

Students who wish to study advertising may do so as part of the Bachelor of Business (see page 32) or Bachelor of Communication and may graduate with a Bachelor of Business (Advertising) or Bachelor of Communication (Advertising).

Communication

▶ Bachelor of Communication

Campus: Hawthorn
Duration: Three years
Intake: March, August

In this course students study three distinct but related areas: media studies, public relations and design. They learn about media and media production, public relations and the impact of design on these specialised areas of communication.

Students also have the opportunity to participate in hands-on projects designed to help them confront the challenges of the dynamic professional communication sector.

Major study areas

Advertising: In this major students learn about effective design and strategy; and advertising development, implementation and evaluation. They also learn how to design advertisements that please clients and reach the target audience. Through practical projects and theory linked to current professional standards and requirements, this major seeks to provide the opportunity to develop the vital knowledge and skills needed to succeed in the complex and creative world of advertising.

Communication: This major aims to prepare students for the broad communication field and includes studies in the role of media, media production, public relations, and the place and impact of design in communication.

Media Studies: In this major students have the opportunity to gain knowledge about current media theories and learn to write for print, broadcast and digital media. They learn about globalisation, media ownership, policy and regulation, and advances in digital technologies and social media. Students also have the opportunity to gain hands-on digital and communication experience.

Public Relations: Professionals in public relations work alongside creative designers of graphics, multimedia, web, products and events. Design is a central theme of this course and students learn about the language of design and how to write effective design briefs. This major includes units in marketing, event management and media.

Double degree opportunities

- Bachelor of Business/Bachelor of Communication

Visit www.swinburne.edu.au/international for more information.

Career opportunities

Employment may be found in advertising, public relations, journalism, radio, film and television, and communications research.

Professional recognition

Graduates may be eligible for membership of the Public Relations Institute of Australia.

The public relations major is professionally accredited by the Public Relations Institute of Australia.

Journalism

▶ Bachelor of Arts (Journalism)

Campus: Hawthorn
Duration: Three years
Intake: March, August

Journalism is undergoing change brought about by digital media and the rise of citizen journalism and blogging. This practice-based course combines traditional journalistic skills with online publishing, multimedia production and the skills required for interacting with audiences, social networking and building online communities. Students have the opportunity to publish and broadcast their work in online, television, radio and print outlets. The course also aims to provide students with an understanding of the broad social, historical, legal and moral context of journalism.

The course provides students the opportunity to develop a portfolio of work to show potential employers. The hands-on skills and theoretical understanding offered by the course may allow students to play an important part in redefining the journalist's role in the digital media age.

Major study areas

This course includes units in:

- audio and video reporting
- digital literacies
- investigative reporting
- media law
- news writing
- politics
- professional ethics
- the history of media innovation
- web publishing.

Students may have the opportunity to study shorthand. Other units are designed to provide students with an understanding of the social and political context in which journalists work.

Career opportunities

Graduates may be equipped for roles in journalism, new media, publishing, media research, writing, communications, television, radio, multimedia content production, news agency work and magazine production.

Media and communication

▶ **Bachelor of Arts (Media and Communication)**

Campus: Hawthorn
Duration: Three years
Intake: March, August

This course offers students a broad and practical approach to media studies. It is designed to prepare them for work in the media, communications and multimedia industries. Students have the opportunity to gain an understanding of the way media is evolving through an examination of issues such as ownership, control of the media and the impact of new media technologies on society. They also have the opportunity to develop professional communication skills.

Swinburne also offers an honours (fourth) year for this degree.

Major study areas
- Cinema studies
- Creative writing
- Journalism
- Media and literature
- Media ownership and control
- Media policy
- New media theory and production
- Professional communications
- Social media
- Video and radio production

Career opportunities
Graduates may be equipped with the conceptual and practical skills necessary to actively and creatively contribute to today's media world. They may also find careers in web authoring, information architecture, electronic publications and news broadcasting, radio production, journalism, public relations, communication research, policy analysis and book publishing.

Media studies

Students who wish to study media studies may do so as part of the Bachelor of Communication and may graduate with a Bachelor of Communication (Media Studies).

Public relations

Students who wish to study public relations may do so as part of the Bachelor of Business (see page 32) or Bachelor of Communication and may graduate with a Bachelor of Business (Public Relations) or Bachelor of Communication (Public Relations).

'The best thing about my degree has been learning about the parts of the brain and how they function in unison. I also enjoy the statistics component as I love mathematics. I have gained a lot of knowledge in human reactions, as well as skills in communicating professionally.'

Ravini
Bachelor of Social Science (Psychology)

Psychology ▸

If being able to understand and explain human behaviour and relationships interests you, a degree in psychology could be the right choice. Psychology graduates are sought by a wide range of organisations, and not just in clinical and counselling roles. A psychology degree could help you work in industries such as human resources, marketing, journalism or policy development.

Make connections with industry

Your psychology degree can take you beyond the classroom to engage with industry and better prepare you for your career.

Final-year projects, called Capstone Projects, engage students from across multiple disciplines and allow you to put your learning into practice. You could contribute to an industry or community project, competition submission, research-based project or internally developed project.

Research excellence

Our commitment to high-quality teaching and research was reflected in our rating for psychology of 'above world standard' in the Australian Government's *Excellence in Research for Australia 2012* report. The rating was awarded for research conducted in the areas of psychopharmacology and brain sciences.

Our researchers foster extensive national and international networks and connections with industry, providing excellent opportunities for Swinburne students.

Finding the right course

A psychology course could be right for you if your interests include:

- understanding what motivates people
- improving your community
- social groups and interactions
- the human mind
- human behaviour
- ideas and theories.

These courses can lead to careers such as:

- clinical psychologist
- community worker
- counselling psychologist
- counsellor
- criminologist
- forensic psychologist
- occupational health and safety officer
- organisational psychologist
- rehabilitation counsellor
- social worker
- sport psychologist
- youth worker.

Psychology

▶ Bachelor of Arts (Psychology)

▶ Bachelor of Social Science (Psychology)

Campus: Hawthorn
Duration: Three years
Intake: March, August

Studying psychology offers students the knowledge and skills to understand and explain human behaviour and relationships. Students have the opportunity to complete a variety of research projects and develop skills in project management, research design and report writing.

Students may graduate with either a Bachelor of Arts or Bachelor of Social Science, depending on their career aspirations.

Major study areas
Students undertake a major in psychology and combine it with other studies to add depth to their degree.

Areas of study include:
- abnormal psychology
- cognitive psychology
- developmental psychology
- psychological assessment
- psychology of personality
- research methods
- social psychology
- statistics.

Career opportunities
Psychology graduates are in high demand in a range of human services positions, including roles in community and mental health, human resource management, policy development, research, welfare, journalism, marketing and advertising.

This course provides the first step to becoming a professional psychologist. Graduates may apply to undertake a fourth year in psychology with further study in specialist areas of professional psychology such as clinical, counselling, health, organisational and sports psychology.

Professional recognition
The three-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council (APAC). Swinburne also offers an APAC-accredited honours (fourth) year in psychology.

▶ Bachelor of Science (Psychology)

Campus: Hawthorn
Duration: Three years
Intake: March, August

Studying psychology offers students the knowledge and skills to understand and explain human behaviour and relationships. This degree aims to provide specialised study in developmental psychology, cognition, social psychology, personality, design and measurement, psychological measurement and abnormal psychology. Students have the opportunity to complete a variety of research projects and develop skills in project management, research design and report writing.

Major study areas
- Biochemistry
- Biology
- Chemistry
- Cognitive and developmental psychology
- Personality and social psychology
- Physiology
- Psychological assessment
- Research methods and statistics

Career opportunities
Psychology graduates are in high demand in a range of human services positions, including roles in community and mental health, human resource management, policy development, research, welfare, journalism, marketing and advertising.

This course provides the first step to becoming a professional psychologist. Graduates may apply to undertake a fourth year in psychology with further study in specialist areas of professional psychology such as clinical, counselling, health, organisational and sports psychology.

Professional recognition
The three-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council (APAC). Swinburne also offers an APAC-accredited honours (fourth) year in psychology.

Psychology and forensic science

▶ Bachelor of Arts (Psychology and Forensic Science)

▶ Bachelor of Social Science `new` (Psychology and Forensic Science)

Campus: Hawthorn
Duration: Three years
Intake: March, August

This degree aims to provide students with 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. Students have the opportunity to complete a variety of research projects, specialist units in research design and project units related to forensic psychology.

Students may graduate with either a Bachelor of Arts or Bachelor of Social Science, depending on their career aspirations.

Major study areas
- Abnormal psychology
- Cognitive psychology
- Developmental psychology
- Forensic science
- Psychological assessment
- Psychology of personality
- Research methods
- Social psychology
- Statistics

Career opportunities
Psychology graduates are in high demand in a range of human services positions, including roles in community and mental health, human resource management, policy development, research, welfare, journalism, marketing and advertising.

This course may be an advantage for those wanting to work within the justice system. It also provides the first step to becoming a professional psychologist. Graduates have the opportunity to complete a fourth year in psychology and obtain postgraduate qualifications to become a forensic psychologist or work in other relevant specialties such as clinical or counselling psychology, neuropsychology, and organisational or sport psychology.

Professional recognition
The three-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council (APAC). Swinburne also offers an APAC-accredited honours (fourth) year in psychology.

Psychology and psychophysiology

▶ Bachelor of Arts
(Psychology and Psychophysiology)

▶ Bachelor of Science
(Psychology and Psychophysiology)

Campus: Hawthorn
Duration: Three years
Intake: March, August

This course is unique to Swinburne and encompasses the fields of psychology and cognitive and behavioural neurosciences.

The psychology major aims to provide a broad introduction to a range of relevant studies, including cognition, developmental psychology, social psychology, personality, design and measurement, psychological measurement and abnormal psychology.

The psychophysiology units offer students an understanding of physiological processes relevant to the study of psychology and address neuroanatomy; neurophysiology; physiological responses to sleep, dreaming, memory and cognition; and brain disorders. Psychophysiology also explores the use of biological recording technology relevant to the study of cognition and behaviour.

Students may graduate with either a Bachelor of Arts or Bachelor of Science, depending on their career aspirations.

Major study areas
- Cognition and human performance
- Developmental and social psychology
- Higher cortical function
- Neurophysiology
- Psychology of personality
- Sensation and perception
- Sleep and attention

Career opportunities
Swinburne psychology and psychophysiology graduates are highly regarded for their range of skills. They may explore roles in neurophysiological areas of hospitals; research areas of universities; research institutes in the private and public sectors; community health services and clinics; and areas associated with sports psychology, ergonomics, psychophysiology and clinical psychology.

Professional recognition
The three-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council (APAC). Swinburne also offers an APAC-accredited honours (fourth) year in psychology and psychophysiology.

Psychology and sport science

▶ Bachelor of Arts
(Psychology and Sport Science)

▶ Bachelor of Social Science new
(Psychology and Sport Science)

Campus: Hawthorn
Duration: Three years
Intake: March, August

This course seeks to provide students with an understanding of the application of psychology to sport. Students learn about the influence of psychological factors on involvement and performance in a sports setting, the use of statistical techniques to evaluate sports performance and predictions, the interaction between sport and social relationships, and the psychological factors that influence group and individual sport and exercise.

The psychology major offers specialised study in developmental psychology, cognition, psychological measurement, personality and abnormal psychology. Students have the opportunity to complete a variety of research projects and specialist units in research design.

Students may graduate with either a Bachelor of Arts or Bachelor of Social Science, depending on their career aspirations.

Major study areas
- Abnormal psychology
- Cognitive psychology
- Developmental psychology
- Psychological assessment
- Psychology of personality
- Research methods
- Social psychology
- Sociology of sport
- Sports psychology
- Sports statistics
- Statistics

Career opportunities
Psychology graduates are in high demand in a range of human services positions, including roles in community and mental health, human resource management, policy development, research, welfare, journalism, marketing and advertising.

This course may be an advantage for those wanting to work in the sports industry. It also provides the first step to becoming a professional psychologist. Graduates have the opportunity to complete a fourth year in psychology and obtain postgraduate qualifications to become a sport psychologist or work in other relevant specialties such as clinical or counselling psychology, neuropsychology, and organisational or forensic psychology.

Professional recognition
The three-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council (APAC). Swinburne also offers an APAC-accredited honours (fourth) year in psychology.

'The support provided for international students is great. When I started my course, I attended lots of workshops that taught me how to write an assignment, how to give a presentation and ways to improve my English. The campus is very multicultural which means you can meet people from different parts of the world. There are also many social events that help students settle in and provide opportunities to travel to stunning places and make friends with other students.'

Ngoc Han
Bachelor of Science
2009 Champion, *Way to Olympia Peak*

Science ▶

Scientific and technological knowledge is advancing at an unprecedented rate. By encouraging you to put your natural curiosity to practical use, Swinburne's science qualifications can put you on a career path of inquiry and discovery.

From solving environmental problems to making discoveries in state-of-the-art laboratories, Swinburne can give you the head start you need for the science career you want.

World-ranked in physics

Our commitment to excellence in science teaching and research was reflected in our inclusion again in the 2013 Academic Ranking of World Universities (ARWU). In addition to ranking Swinburne one of the world's top 400 research-intensive universities, the ARWU named Swinburne a top 100 research university in the field of physics.

In 2012 Swinburne's research quality in the area of science was also confirmed with ratings of 'well above world standard' and 'above world standard' in the Australian Government's *Excellence in Research for Australia 2012* report.

The 'well above world standard' rating was awarded for research conducted in the areas of astronomical and space sciences, and physical sciences. The 'above world standard' rating was awarded for research conducted in the areas of optical physics and physical chemistry.

Our researchers foster extensive national and international networks and connections with industry, providing excellent opportunities for Swinburne students.

Make connections with industry

Your science degree can take you beyond the classroom to engage with industry and better prepare you for your career.

Final-year projects, called Capstone Projects, engage students from across multiple disciplines and allow you to put your learning into practice. You could contribute to an industry or community project, competition submission, research-based project or internally developed project.

Finding the right course

A science course could be right for you if your interests include:

- biology, chemistry, environmental health, mathematics and statistics, physics or psychology
- technology and technological change
- subjects and arguments based on reason and analysis
- discovering through inquiry and observation
- solving problems through experimentation
- human anatomy
- health sciences.

These courses can lead to careers such as:

- analytical chemist
- biophysicist
- cardiovascular technologist
- computer programmer
- forensic scientist
- laboratory technician
- mathematical modeller
- maths and science teacher
- medical imaging administrator
- medical sales
- microbiologist
- neuroscientist
- psychologist
- quantitative analyst
- respiratory technologist.

Foundation Studies

Science/Engineering

▶ Swinburne College Foundation Studies (Science/Engineering)

Campus: Hawthorn
Duration: Eight months
Intake: February, June, October

Foundation Studies is a pre-university program specially designed to help international students meet the entry requirements for first-year university. Students gain fundamental academic and communication skills, with a focus on developing their English language skills. They also develop skills in communication, information technology and mathematics, and undertake units in physics, chemistry, and mathematics for science and engineering.

Major study areas

- Academic and communication skills
- Chemistry
- Information technology
- Innovation and change
- Introductory mathematics
- Mathematics for science and engineering
- Physics

Pathways

On successful completion of all units of study, students may progress to a Diploma of Engineering (UniLink) or Diploma of Information Technology (UniLink), which prepares them for the second year of a related bachelor degree.

Students who achieve a combined minimum 70 per cent average in Academic and Communication Skills A and B and a minimum 65 per cent average across all remaining units may progress to a bachelor degree in animation, engineering, health science, information technology or science.

Students may also progress to a range of related double degrees.

Visit www.swinburne.edu.au/international/pathways for more information.

Career opportunities

With further study, students may find careers in engineering, biotechnology, management, mining, network administration, telecommunications and transport.

Visit www.swinburne.edu.au/college for more information.

University degrees

Applied mathematics

Students who wish to study applied mathematics may do so as part of the Bachelor of Science and may graduate with a Bachelor of Science (Applied Mathematics).

Biochemistry and chemistry

Students who wish to study biochemistry and chemistry may do so as part of the Bachelor of Science and may graduate with a Bachelor of Science (Biochemistry and Chemistry).

Biomedical science

Students who wish to study biomedical science may do so as part of the Bachelor of Science and may graduate with a Bachelor of Science (Biomedical Science).

Biotechnology

Students who wish to study biotechnology may do so as part of the Bachelor of Science and may graduate with a Bachelor of Science (Biotechnology).

Chemistry

Students who wish to study chemistry may do so as part of the Bachelor of Science and may graduate with a Bachelor of Science (Chemistry).

Environmental science

Students who wish to study environmental science may do so as part of the Bachelor of Science and may graduate with a Bachelor of Science (Environmental Science).

Health science

See Bachelor of Health Science (page 56) and Bachelor of Health Science (Public and Environmental Health) (page 57).

Physics

Students who wish to study physics may do so as part of the Bachelor of Science and may graduate with a Bachelor of Science (Physics).

Science

▶ Bachelor of Science

Campus: Hawthorn
Duration: Three years
Intake: March, August

This course seeks to provide students with a broad science overview and the ability to specialise in a field of their choice through a range of science majors. The course aims to equip students with the skills, knowledge and key theoretical 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.

Drawing on the expertise of leading teachers, researchers and a variety of industry experts, the course offers students the opportunity to tailor their degree and develop a unique range of interdisciplinary skills. Offering a flexible range of unit combinations, the course allows students to select a professionally focused program of study. The topics covered seek to blend a range of key scientific skills and knowledge required by current and projected industry needs.

Swinburne also offers an honours (fourth) year for this degree.

Major study areas

Applied Mathematics: This major seeks to help students develop the professional quantitative skills needed to undertake mathematical modelling in chemistry, biomolecular science and physics, and to solve scientific problems.

Students who complete this major and other degree requirements may graduate with a Bachelor of Science (Applied Mathematics).

Applied Statistics: This major focuses on the practical applications of statistics; in particular, in the areas of psychology, sport, health, forensics and market research. Students learn skills in data gathering, data analysis and data modelling.

Biochemistry and Chemistry: This major examines how biochemical knowledge can be applied to a range of industries and medical investigations, focusing on practical skills such as the culturing of microorganisms and investigating complex molecules such as enzymes and DNA.

Students who complete this major and other degree requirements may graduate with a Bachelor of Science (Biochemistry and Chemistry).

Biomedical Science: This major aims to provide students with a basic scientific understanding of chemistry, biochemistry, microbiology, human anatomy and physiology. It offers students the opportunity to learn about the technology and modern instrumentation used in clinical care and monitoring environments such as analytical and research laboratories.

Students who complete this major and other degree requirements may graduate with a Bachelor of Science (Biomedical Science).

Biotechnology: This major combines studies in biology, chemistry, biochemistry and biotechnology. It aims to provide students with an understanding of the structure and function of living organisms, as well as scientific and laboratory skills in biotechnology and molecular biology. The major also examines microscopic life forms; the structures and functions of major cells and tissue of higher animals and human beings; plus the molecular basis of life.

Students who complete this major and other degree requirements may graduate with a Bachelor of Science (Biotechnology).

Chemistry: This major introduces students to the applications of chemistry, including forensic science, polymer formation, water analysis, the creation of new materials, agricultural chemistry and environmental science.

Students who complete this major and other degree requirements may graduate with a Bachelor of Science (Chemistry).

Computer Science and Mathematics: This major combines studies in general computing (such as software development, databases, data communications and software engineering) with specialist studies in scientific computing.

Environmental Science: In this major students have the opportunity to gain an understanding of and develop solutions to environmental issues on small and large scales. They learn skills in analytical, water and environmental chemistry designed to help them understand environmental sustainable systems in a scientific context and provide ways to improve them.

Students who complete this major and other degree requirements may graduate with a Bachelor of Science (Environmental Science).

Neuroscience: This major introduces the interdisciplinary field of neuroscience. It links the applied physical sciences of biology, medical physics and physiology with psychophysiology and neuroimaging and aims to provide students with the knowledge to scientifically understand the workings of the human brain and nervous system.

Physics: This major is designed to increase students' fundamental knowledge of classical and modern physics, as well as physics of nano-science and technology. In particular, the research skills of biotechnology, bioscience, chemistry and medical biophysics students may be enhanced if a significant physics component is present in their course.

Students who complete this major and other degree requirements may graduate with a Bachelor of Science (Physics).

Psychology: This major offers students a broad introduction to a range of relevant studies, as well as specialised study in developmental psychology, cognition, social psychology, personality, design and measurement, psychological measurement and abnormal psychology.

Students who complete this major and other degree requirements may graduate with a Bachelor of Science (Psychology).

Psychology and Psychophysiology: This major aims to provide students with an understanding of physiological processes relevant to the study of psychology. Students study neuroanatomy; neurophysiology; physiological responses to sleep, dreaming, memory and cognition; and brain disorders.

Students who complete this major and other degree requirements may graduate with a Bachelor of Science (Psychology and Psychophysiology).

Psychophysiology: In this major students learn about the relationship between physiological and psychological processes. The major also looks at the use of biological recording technology relevant to the study of cognition and behaviour.

Double degree opportunities

■ Bachelor of Arts/Bachelor of Science

Visit www.swinburne.edu.au/international for more information.

Career opportunities

Graduates may be equipped for professional careers in their area of specialisation.

Professional recognition

Graduates may be eligible for membership of the Association of Professional Engineers, Scientists and Managers, Australia; Australian Biotechnology Association; Australian Institute of Physics; Australian Society for Biochemistry and Molecular Biology; Australian Society for Microbiology; and Royal Australian Chemical Institute.

The three-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council (APAC). Swinburne also offers an APAC-accredited honours (fourth) year in psychology.

▶ FURTHER INFORMATION

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