Career Practitioners’ Reference Guide

2015
VTAC FEE-TYPE CODES

CSP: Commonwealth supported place
FTDP: Fee type determined by provider
IFP: International fee place

KEY DATES 2014

Tuesday 29 July
Trades Taster Day
Wantirna campus

Sunday 3 August
Open Day
Hawthorn campus

9–11 September
Advice Night
Hawthorn campus

Wednesday 26 November
Study Expo
RACV Club, Melbourne CBD

Wednesday 17 December
Change of Preference Expo
Hawthorn campus

FURTHER INFORMATION

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study@swinburne.edu.au
swinburne.edu.au/future
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Arts and Social Sciences

Arts

Bachelor of Arts

Campus: Hawthorn Arts

Duration: Three years full-time or equivalent part-time

VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English

Note: Some majors may have additional prerequisites.

Subject bonus: Satisfactory completion in Australian politics, global politics, history (any), philosophy, psychology or sociology is considered

Application: VTAC (Semester 1) or direct (all intakes)

VTAC code: 3400234321 (CSP), 3400234323 (IFP)

2014 Round 1 Clearly-in-ATAR: 65.15

This degree provides 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 enables students to develop analytical, communication and research skills that will facilitate their personal and professional development. This flexibility equips 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 Mandarin at beginner level to become prepared for a range of professions.

Cinema and Screen Studies: In this major students study moving-image traditions and theories. They develop screen-specific research and writing skills, and 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 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 equips 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.

Digital Media and Marketing: This major provides 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.

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.

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.

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.

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.

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.

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 provides a broad and practical approach to media studies, preparing students for work in the media and communications industries. Students 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.

Philosophy: This major offers students a well-grounded understanding of the main philosophical themes and thinkers to have shaped our contemporary world view. Students 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.
Bachelor of Arts (continued)

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.

Professional Writing and Editing: This major is designed to provide students with practical skills in writing and editing in the professional sphere. Students learn how to design and develop text. They gain an understanding of industry laws and regulations, as well as writing and editing skills for novels, non-fiction, creative fiction, scripts, screenwriting, advertising and the web.

Psychology: This major provides 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.

Psychology and Forensic Science: In this major students 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.

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

Psychology and Sport Science: In this major students 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.

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 prepares students for work in a culturally diverse global environment.

Social Media: This major focuses on emerging cultures and technologies, and the rise of social media platforms. Students develop expertise in communicating within social media environments and 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 prepares 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 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
- Bachelor of Arts (Games and Interactivity)/Bachelor of Computer Science (see Digital Media)

Career opportunities
Graduates are 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.

Bachelor of Arts/Bachelor of Business

Campus: Hawthorn

Duration: Four years full-time or equivalent part-time

VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English

Subject bonus: Satisfactory completion in accounting, Australian politics, business management, economics, global politics, history (any), legal studies, mathematics (any), philosophy, psychology, sociology or software development is considered

Application: VTAC (Semester 1) or direct (all intakes)

VTAC code: 3400210121 (CSP), 3400210123 (IFP) 2014 Round 1 Clearly-in ATAR: 75.10

This double degree offers students a general understanding of contemporary social and cultural developments through a range of study areas, as well as a strong understanding of the business world. Students develop analytical, communication and research skills designed to facilitate their personal and professional development.

Drawing on the expertise of leading teachers, researchers and industry experts, the course allows students to design a degree to develop a unique range of interdisciplinary skills.

Major study areas
Students select one arts major from:
- Chinese
- cinema and screen studies
- cultural studies
- digital media
- games and interactivity
- international studies
- Italian
- Japanese
- journalism
- literature
- media
- media and communication
- philosophy
- politics and public policy
- professional writing and editing
- psychology
- psychology and forensic science
- psychology and sport science
- psychophysiology
- security and counter terrorism
- social media
- sociology
- sustainability management.
Bachelor of Arts/Bachelor of Business (continued)

Students also select one business major from:
- advertising
- commercial law
- entrepreneurship and innovation
- finance
- human resource management
- international business
- management
- marketing
- public relations
- tourism management.

Career opportunities
The diverse nature of this degree provides graduates with a range of career opportunities in arts and business professions, including digital media, finance, human resources, journalism; management, marketing, media and communications, and psychology.

Professional recognition
Graduates may be eligible for membership of the Australian Human Resources Institute, Australian Institute of Management, Australian Marketing Institute, Financial Services Institute of Australasia, Governance Institute of Australia, Public Relations Institute of Australia and Stockbrokers Association of 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.

Bachelor of Arts/Bachelor of Science

Campus: Hawthorn
Duration: Four years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematics (any)
Subject bonus: Satisfactory completion in Australian politics, history, global politics, philosophy, physical education, psychology or science (any) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400210131 (CSP), 3400210133 (IFP)
2014 Round 1 Clearly-in ATAR: 75.30

This double degree offers students a general understanding of contemporary social and cultural developments through a range of study areas, as well as a capacity to understand complex scientific information in a specialised field. It combines a range of key humanities and scientific skills and knowledge related to current and projected industry needs.

Students learn how to communicate their knowledge in ways that address the issues facing humanity and the planet. Students also develop analytical, communication and research skills designed to facilitate their personal and professional development.

Drawing on the expertise of leading teachers, researchers and industry experts, the course allows students to design a degree to develop a unique range of interdisciplinary skills.

Major study areas
Students select one arts major from:
- Chinese
- cinema and screen studies
- cultural studies
- digital media
- games and interactivity
- international studies
- Italian
- Japanese
- journalism
- literature
- media
- media and communication
- philosophy
- politics and public policy
- professional writing and editing
- psychology
- psychology and forensic science
- psychology and sport science
- psychophysiology
- security and counter terrorism
- social media
- sociology
- sustainability management.

Students also select one science major from:
- applied statistics
- biotechnology
- chemistry
- environmental science
- neuroscience
- psychology
- psychophysiology.

Career opportunities
The diverse nature of this degree provides graduates with a range of career opportunities in arts, science and technology professions.

Professional recognition
Graduates may be eligible for membership of the Association of Professional Engineers, Scientists and Managers, Australia; Australian Biotechnology Association; 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.

Chinese
Students who wish to study Chinese may do so as part of the Bachelor of Arts.

Cinema and screen studies
Students who wish to study cinema and screen studies may do so as part of the Bachelor of Arts.

Community health
Students who wish to study community health may do so as part of the Bachelor of Social Science.

Also see Health Sciences and Community Care: Bachelor of Community Health.
Criminology
- Bachelor of Social Science (Criminology)

Campus: Online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Application: Direct

Every society suffers from the consequences of crime. This course combines studies from the science and psychology disciplines to help students understand the motivations of crime and prepare them for roles where they implement strategies to combat crime.

Using research to identify social issues that lead to crime allows criminologists to develop policy and systems to address these problems. This knowledge makes them valuable contributors to victim support, community safety, rehabilitation, crime prevention and corrections programs.

Major study areas
- Correctional systems
- Forensic psychology
- Forensic science
- Policing practices

Career opportunities
Graduates may find employment in crime prevention agencies, child protection, corrective services and in government positions that develop or analyse policy.

Cultural studies
Students who wish to study cultural studies may do so as part of the Bachelor of Arts.

Digital media
Students who wish to study digital media or digital media and marketing may do so as part of the Bachelor of Arts.

Games and interactivity
Students who wish to study games and interactivity may do so as part of the Bachelor of Arts.

Also see Digital Media: Bachelor of Arts (Games and Interactivity) and Bachelor of Arts (Games and Interactivity)/Bachelor of Computer Science.

Italian
Students who wish to study Italian may do so as part of the Bachelor of Arts.

International studies
- Bachelor of Arts (International Studies)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Application: Direct

Students who wish to study digital media or digital media and marketing may do so as part of the Bachelor of Arts.

Career opportunities
Graduates will be prepared for roles across a range of areas in business, government and non-government organisations, international agencies, multinational firms, non-profit organisations and financial institutions. They may also find roles in foreign affairs analysis, marketing, tourism, hospitality, policy development, research, education, media, market research, journalism or public affairs coordination.

Bachelor of Arts (International Studies and Chinese)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in humanities (any) or LOTE (any) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400235661 (CSP), 3400235663 (IFP)
2014 Round 1 Clearly-in ATAR: 70.80

As the world becomes increasingly globalised, it is more important than ever to understand the ideas and beliefs of our neighbours and trading partners. International studies draws upon a number of disciplines to create a core understanding of global issues and relations. It enables students to create connections between global issues and local practices in work and life.

This course is ideal for those seeking to contribute to making the world a better place or find success in international business. Students gain an understanding of the political, cultural, economic and social contexts of global issues. They learn how to deal with foreign cultures, languages, worldviews and values; gain an appreciation for cultural diversity and borderless societies; and develop an understanding about how economic trade and geopolitical lines affect our everyday lives. Students may also add Chinese, Italian or Japanese language subjects to their degree.

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

Major study areas
- Chinese history and culture
- Mandarin language
- Philosophy
- Politics and political history
- Security and counter terrorism studies
- Sociology

Career opportunities
Graduates may find employment in a range of occupations including policy development and research positions in government departments and non-government organisations, diplomatic services, international relations, trade and business, media and education.

Other study options
Students can complete a major in Chinese as part of the Bachelor of Arts.
International studies (continued)

Bachelor of Arts (International Studies and Italian)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in humanities (any) or LOTE (any) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400235681 (CSP), 3400235683 (IFP)
2014 Round 1 Clearly-in ATAR: n/a

This course prepares students for a range of professions in an increasingly globalised world. 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 society. The Italian language component is offered at both beginner and advanced levels.

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

Major study areas
- Italian language and literature
- Italian history, culture and cinema
- Philosophy
- Politics and political history
- Security and counter terrorism studies
- Sociology

Career opportunities
Graduates may find employment in a range of occupations including education; language and translation services; or policy development and research positions in government departments and non-government organisations, diplomatic services, international relations, trade and business, and media.

Other study options
Students can complete a major in Italian as part of the Bachelor of Arts.

Bachelor of Arts (International Studies and Japanese)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in humanities (any), Japanese first language, Japanese second language or LOTE (any) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400235691 (CSP), 3400235693 (IFP)
2014 Round 1 Clearly-in ATAR: 70.15

This course prepares students for a range of professions in an increasingly globalised world. 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 society. The Japanese language component is offered at both beginner and advanced levels.

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

Major study areas
- Japanese history and culture
- Japanese language
- Philosophy
- Politics and political history
- Security and counter terrorism studies
- Sociology

Career opportunities
Graduates may find employment in a range of occupations including education; language and translation services; or policy development and research positions in government departments and non-government organisations, diplomatic services, international relations, trade and business, and media.

Graduates who complete Stage 3 units in the advanced Japanese stream will also be eligible to undertake further study to become a Japanese language teacher at primary or secondary level.

Other study options
Students can complete a major in Japanese as part of the Bachelor of Arts.

Japanese
Students who wish to study Japanese may do so as part of the Bachelor of Arts.

Journalism
Students who wish to study journalism may do so as part of the Bachelor of Arts.

Also see Media and Communications: Bachelor of Arts (Journalism) and Diploma of Screen and Media (specialising in Broadcast Journalism).

Liberal arts

Certificate IV in Liberal Arts

Campus: Hawthorn, Wantirna
Duration: Six months full-time or equivalent part-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: Hawthorn: 3400270094 (FTDP)
Wantirna: 3401070094 (FTDP)

This course prepares students for further study in humanities and social sciences or to enter the workforce in a variety of fields. Students explore a range of subjects within these disciplines, including literature, philosophy, anthropology and sociology.

The course also provides students with skills to assist their transition into an academic environment and is a suitable foundation for students who have had an extended break from study. Students learn skills and techniques in writing, text analysis, conducting and presenting research, effective communication and making presentations.

Major study areas
- Citizenship and the public sphere
- Economy and society
- Human transformations of nature
- Stories/narratives within cultures

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

Career opportunities
Graduates may find employment in the fields of arts, communications and social sciences, plus fields where extensive researching, writing and other communication skills are required, or pursue further study.
Library and information services

- Diploma of Library and Information Services

**Campus:** Hawthorn, online  
**Duration:** One year full-time or equivalent part-time  
**Prerequisites:** Satisfactory completion of Victorian Year 12 or equivalent, or mature age  
**Application:** VTAC (March start) or direct (all intakes)  
**VTAC code:** 3400278804 (FTDP)

In this course students are provided with the relevant skills and knowledge to work in a variety of technical and customer service positions in the library and information sector. Knowledge gained in this course allows students to register with the Australian Library and Information Association (ALIA), the professional organisation for the Australian library and information services industry.

**Major study areas**  
- Cataloguing and collection management skills  
- Digital and social media skills  
- Interpersonal and customer service skills  
- Research

**Pathways**  
Successful completion of this course may allow students to progress to the Bachelor of Business with advanced standing.


**Career opportunities**  
Employment may be found as a library technician or library officer in a range of library environments and information agencies.

Literature

Students who wish to study literature may do so as part of the Bachelor of Arts.

Media

Students who wish to study media or media and communication may do so as part of the Bachelor of Arts.

Also see Media and Communications: Bachelor of Arts (Media and Communication), Bachelor of Communication and Bachelor of Communication (Media Studies).

Philosophy

Students who wish to study philosophy may do so as part of the Bachelor of Arts.

Politics and public policy

Students who wish to study politics and public policy may do so as part of the Bachelor of Arts or Bachelor of Social Science.

Professional writing and editing

Students who wish to study professional writing and editing may do so as part of the Bachelor of Arts.

Also see Media and Communications: Bachelor of Arts (Professional Writing and Editing), Diploma of Professional Writing and Editing and Certificate IV in Professional Writing and Editing.

Psychology

Students who wish to study psychology, psychology and forensic science, or psychology and sport science may do so as part of the Bachelor of Arts or the Bachelor of Social Science.

Students who wish to study psychology and psychophysiology or psychophysiology may do so as part of the Bachelor of Arts.

Also see Psychology: Bachelor of Arts (Psychology), Bachelor of Arts (Psychology and Forensic Science), Bachelor of Arts (Psychology and Psychophysiology), Bachelor of Arts (Psychology and Sport Science), Bachelor of Science (Psychology), Bachelor of Science (Psychology and Psychophysiology), Bachelor of Social Science (Psychology), Bachelor of Social Science (Psychology and Forensic Science) and Bachelor of Social Science (Psychology and Sport Science).

Security and counter terrorism

- Bachelor of Arts (Security and Counter Terrorism)
- Bachelor of Social Science (Security and Counter Terrorism)

**Campus:** Hawthorn, online  
**Duration:** Three years full-time or equivalent part-time  
**VCE prerequisites:** Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English  
**Subject bonus:** Satisfactory completion in Australian politics, global politics, history (any), philosophy, psychology or sociology is considered  
**Application:** Hawthorn: VTAC (Semester 1) or direct (all intakes)  
Online, Social Science: Direct  
**VTAC code:** Arts: 3400235811 (CSP), 3400235813 (IFP)  
Social Science: 3400235591 (CSP), 3400235593 (IFP)  
**2014 Round 1 Clearly-in ATAR:** Arts: n/a  
Social Science: 71.55

Terrorism has become the world’s most significant and debated security issue. It has had implications for domestic and international security policy, international trade and policing.

This course focuses on human rights and the ethical issues associated with security and counter terrorism policy. Students examine the changing nature of warfare and its justification in the context of the post-September 11 security environment. This includes the role of technology such as drone warfare and cyber-security, as well as the legislative changes that aim to protect ‘liberty’ and democracy. Ideological, interventionist and economic measures to achieve ‘security’ are also critically examined from a range of different perspectives. The course prepares students for work in a culturally diverse global environment.

**Major study areas**  
- Australian foreign policy  
- Conflict and resolution  
- Human rights  
- Security and terrorism

**Career opportunities**  
Graduates may find employment in government departments including the Department of Foreign Affairs and Trade, the Department of Defence, the Department of Immigration and Citizenship, and the Attorney-General’s office. They may also find roles in the private sector in research, corporate management and international business.

Social media

Students who wish to study social media may do so as part of the Bachelor of Arts.

Arts and Social Sciences 1-6
Social science

**Bachelor of Social Science**

**Campus:** Hawthorn, online

**Duration:** Three years full-time or equivalent part-time

**VCE prerequisites:** Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English

**Subject bonus:** Satisfactory completion in Australian politics, history (any), philosophy, psychology or sociology is considered

**Application:** Hawthorn: VTAC (Semester 1) or direct (all intakes)

**Online Direct**

**VTAC code:** 3400334221 (CSP), 3400334223 (IFP)

**2014 Round 1 Clearly-in ATAR:** 65.45

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 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**

**Hawthorn**

**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 develop skills 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 provides 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.

**Psychology and Forensic Science:** In this major students 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.

**Psychology and Sport Science:** In this major students 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.

**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 prepares students for work in a culturally diverse global environment.

**Sociology:** This major explores social identities, differences, structures and change in Australia and globally. It prepares 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.

**Online**

**Criminology:** This major incorporates material from psychology, statistics and forensic psychology. Students undertake studies in the theory and practice of criminology, policing and forensic science. Students who complete this major graduate with a Bachelor of Social Science (Criminology).

**Psychology:** As for Hawthorn campus.

**Security and Counter Terrorism:** As for Hawthorn campus.

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

**Double degree opportunities**

- Bachelor of Business/Bachelor of Social Science (see Business and Management)

**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 can 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.

**Sustainability management**

Students who wish to study sustainability management may do so as part of the Bachelor of Arts.
Aviation

Bachelor of Aviation

Campus: Hawthorn and external venue (Moorabbin Airport)
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)
Subject bonus: Satisfactory completion in physics, psychology or specialist mathematics is considered
Application: VTAC and direct (Semester 1 only); applicants must also attend an interview and complete a skills assessment test. Civil Aviation Safety Authority (CASA) medical requirements and flying fees apply.
VTAC code: 3400234511 (CSP), 3400234513 (IFP)

This course equips 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 develop practical managerial and analytical skills and capabilities. This enables 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 that 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

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, which is based on scheduled flying hours. Equipment, headset, uniform, CASA documentation and CASA exam fees are an additional $6921.


Note: Fees are subject to change.

Eligible students will be able to access Commonwealth assistance for academic units of study fees (HECS-HELP) and flight training fees (FEE-HELP). To access FEE-HELP, eligible students will be given the option of enrolling in the Graduate Certificate of Aviation (Piloting) during enrolment to offset flying training fees through the government loan system. Students do not need to apply for the graduate certificate; eligible students will be notified when they commence their studies.

Note: A maximum lifetime FEE-HELP limit applies; in 2014 the FEE-HELP limit is $96,000. The limit is indexed annually.

Career opportunities
Graduates will 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 will 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.

Bachelor of Aviation/Bachelor of Business

Campus: Hawthorn and external venue (Moorabbin Airport)
Duration: Four years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)
Subject bonus: Satisfactory completion in physics, psychology or specialist mathematics is considered
Application: VTAC and direct (Semester 1 only); applicants must also attend an interview and complete a skills assessment test. Civil Aviation Safety Authority (CASA) medical requirements and flying fees apply.
VTAC code: 3400234521 (CSP), 3400234523 (IFP)

This course equips students for a professional career as a pilot and expands career opportunities by providing an introduction to the world of business. 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).

Major study areas
The aviation major covers:
- 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

Students also select one business major from:
- advertising
- commercial law
- entrepreneurship and innovation
- finance
- human resource management
- international business
- management
- tourism management.
Career Practitioners’ Reference Guide 2015

Aviation 2-2

Bachelor of Aviation/Bachelor of Business (continued)

Aviation management

- Bachelor of Aviation (Management)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematics (any)
Subject bonus: Satisfactory completion in physics, psychology or specialist mathematics is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234421 (CSP), 3400234423 (IFP)
2014 Round 1 Clearly-in ATAR: 70.00

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 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
- 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.
Aviation management (continued)

Bachelor of Aviation (Management)/Bachelor of Business

Campus: Hawthorn
Duration: Four years full-time or equivalent part-time

VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematics (any)

Subject bonus: Satisfactory completion in physics, psychology or specialist mathematics is considered

Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234431 (CSP), 3400234433 (IFP)
2014 Round 1 Clearly-in ATAR: 70.20

This course is designed for those who seek a management role in the aviation industry in Australia or overseas. It provides students with a sound professional understanding of the aviation industry and its associated environment. Students also gain skills in organisational, regulatory, technical and business management.

Major study areas
The aviation management major covers:
- 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.

Students also select one business major from:
- advertising
- commercial law
- entrepreneurship and innovation
- finance
- human resource management
- international business
- management
- marketing
- public relations
- tourism management.

Career opportunities
Graduates will have a range of career options in the areas of airline management, airline flight operations, airline ground operations, airport management, airport operations, airport planning, aviation consultancy firms, aviation charter firms, air services, aviation regulatory and safety services, and aviation safety authorities. Graduates may also find roles in the area of their business major.

Professional recognition
Graduates may be eligible for membership of the Australian Human Resources Institute, Australian Institute of Management, Australian Marketing Institute, Financial Services Institute of Australasia, Governance Institute of Australia, Public Relations Institute of Australia and Stockbrokers Association of 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 and Management

Accounting

Bachelor of Business (Accounting)

Campus: Hawthorn, online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: Hawthorn: VTAC (Semester 1) or direct (all intakes)
Online: Direct
VTAC code: 3400235021 (CSP), 3400235023 (IFP)
2014 Round 1 Clearly-in ATAR: 70.05

Accounting is more than just number crunching – it is the foundation language of business. Accountants evaluate, analyse and communicate the financial position of an organisation, and inform key business decisions. Talented accountants often progress to senior management and board positions; an accounting degree can lead to a range of positions in the modern global market.

This course equips students with the skills needed for a career in accounting and beyond. Students learn 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.

Students will have the opportunity to apply their learning to a professionally focused, multidisciplinary project during their final year of study.

Major study areas
Students undertake a major in accounting and combine it with other studies to add depth to their degree.
Areas of study include:
- auditing
- company law
- corporate finance
- economics
- financial management accounting
- financial planning
- management
- management accounting
- taxation.

Career opportunities
This course prepares graduates for careers in the accounting, investment and finance industries. Graduates may find employment with small or large companies worldwide, including private practices, government-owned entities and banks. Possible roles include graduate accountant, account manager, auditor, fund accounting officer, taxation agent, merchant banker, corporate treasurer, investment banker and financial adviser.

Professional recognition
Graduates may be eligible for membership of the Association of Chartered Certified Accountants, Chartered Institute of Management Accountants, CPA Australia, Institute of Chartered Accountants in Australia and Institute of Public Accountants.
This degree is professionally accredited by CPA Australia.

Bachelor of Business (Accounting and Finance)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234201 (CSP), 3400234203 (IFP)
2014 Round 1 Clearly-in ATAR: 70.15

Accounting and finance professionals are in high demand. This degree introduces students to the concepts of accounting, management, statistics, microeconomics and business law. Students develop core skills in analysing investments, sourcing foreign exchange deals, analysing and communicating the financial position of an organisation, risk management and business investment. The course helps them become well equipped to enter the global, challenging and evolving industries of accounting, banking, finance and consultation.

Students will have the opportunity to apply their learning to a professionally focused, multidisciplinary project during their final year of study.

Major study areas
- Auditing
- Banking
- Business law
- Financial management accounting
- Financial statistics
- International finance
- Management accounting
- Taxation

Career opportunities
This course prepares graduates for careers in the accounting, banking, investment and finance industries. Graduates may find employment with small or large companies worldwide, including private practices, government-owned entities and banks. Possible roles include graduate accountant, account manager, auditor, import and export manager, fund accounting officer, taxation agent, merchant banker, corporate treasurer, investment banker and financial adviser.

Professional recognition
Graduates may be eligible for membership of the Association of Chartered Certified Accountants, Chartered Institute of Management Accountants, CPA Australia, Financial Services Institute of Australasia, Institute of Chartered Accountants in Australia, Institute of Public Accountants and Stockbrokers Association of Australia.
This degree is professionally accredited by CPA Australia.
Accounting (continued)

Advanced Diploma of Accounting
incorporating Diploma of Accounting and Certificate IV in Accounting

Campus: Hawthorn, online
Duration: Eighteen months full-time or equivalent part-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277204 (FTDP)
In this course students learn about intermediary accounting principles and applications. Students 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 this course may allow students to progress to the Bachelor of Business (Accounting) or Bachelor of Business (Accounting and Finance) with advanced standing.

Career opportunities
Employment may be found in a variety of professional accounting positions such as assistant accountant in medium to large organisations, tax agent or business activity statement (BAS) agent.

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

Advertising
Also see Media and Communications: Bachelor of Communication (Advertising).

Bachelor of Business (Advertising)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English.
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400235221 (CSP), 3400235223 (IFP)
2014 Round 1 Clearly-in ATAR: 71.40

Advertising drives growth for businesses of all types and sizes by building product knowledge and branding in media. This course focuses on the important role that advertising plays in the business environment and ways to be creative in making maximum use of advertising to assist in achieving organisational objectives. Students learn the necessary skills to create and deliver attention-grabbing advertisements and advertising campaigns.

Students will have the opportunity to apply their learning to a professionally focused, multidisciplinary project during their final year of study.

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

Aviation management
See Aviation: Bachelor of Aviation (Management) and Bachelor of Aviation (Management)/Bachelor of Business.

Bookkeeping

Certificate IV in Bookkeeping

Campus: Hawthorn, online
Duration: Six months full-time or equivalent part-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277414 (FTDP)
This course provides students with practical training in cash and accrual accounting, business communication, business activity statements (BAS), instalment activity statements (IAS) and computing.

Major study areas
- Bookkeeping ethics
- Computerised accounting
- Financial statements
- GST and BAS preparation
- Payroll

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

Career opportunities
This course prepares students for work as a professional contract bookkeeper or permanent paid bookkeeper, either under the direction of a tax agent/public accountant for a bookkeeping business or franchise, as a BAS agent, or for their own bookkeeping business.
Business
Also see Arts and Social Sciences: Bachelor of Arts/Bachelor of Business.

Bachelor of Business
Campus: Hawthorn, online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any), software development or psychology is considered
Application: Hawthorn: VTAC (Semester 1) or direct (all intakes)
Online: Direct
VTAC code: 3400235101 (CP), 3400235103 (IFP)
2014 Round 1 Clearing-in-ATAR: 63.00
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-profit, government, small business and corporate organisations. Students 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
Hawthorn
Accounting: This major equips 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 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 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 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 review, debate, identify and discuss the limitations of policies and proposals. The major provides 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 develop 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 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 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.

Online
Accounting: As for Hawthorn campus.
Students who complete this major graduate with a Bachelor of Business (Accounting).
Business Administration: This major offers students an understanding of organisational management, strategies and principles to prepare them for a career at management level in business administration.
Students are introduced to core business disciplines, including accounting, marketing, management and finance.
Students who complete this major graduate with a Bachelor of Business (Business Administration).

Logistics and Supply Chain Management: Logistics managers are vital in acquiring the raw materials that organisations need to produce products and services, and ensure they are delivered to the final user. In this major students learn the skills required to manage the supply chain for an organisation. They gain project management skills, learn how to deal with external partners and develop skills in sourcing materials and negotiating prices.
Students who complete this major graduate with a Bachelor of Business (Logistics and Supply Chain Management).

Management: As for Hawthorn campus.
Students who complete this major graduate with a Bachelor of Business (Management).

Marketing: As for Hawthorn campus.
Students who complete this major graduate with a Bachelor of Business (Marketing).
Public Relations: As for Hawthorn campus.
Students who complete this major graduate with a Bachelor of Business (Public Relations).
Sports Management: In this major students develop management skills for work in the dynamic sport and leisure industry. They study sports marketing, administration and events, as well as the effects of sport on society, such as promoting healthy lifestyle choices and supporting communities.
Students who complete this major graduate with a Bachelor of Business (Sports Management).
Bachelor of Business (continued)

Double degree opportunities

Hawthorn

- Bachelor of Arts/Bachelor of Business (see Arts and Social Sciences)
- Bachelor of Aviation/Bachelor of Business (see Aviation)
- Bachelor of Aviation (Management)/Bachelor of Business (see Aviation)
- Bachelor of Business/Bachelor of Communication
- Bachelor of Business/Bachelor of Social Science
- Bachelor of Business Information Systems/ Bachelor of Business (see Information and Communication Technologies)
- Bachelor of Design (Communication Design)/ Bachelor of Business (see Design)
- Bachelor of Engineering/Bachelor of Business (various; see Engineering)

Career opportunities

Graduates will 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.

Bachelor of Business/Bachelor of Communication

Campus: Hawthorn

Duration: Four years full-time or equivalent part-time

VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English

Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered

Application: VTAC (Semester 1) or direct (all intakes)

VTAC code: 3400235111 (CSP), 3400235113 (IFP)

2014 Round 1 Clearly-in ATAR: 75.25

This course prepares students for a career in business with the ability to take on the challenges of the dynamic communication sector.

The business major enables students to think critically and to develop problem-solving skills, research issues, analyse information and apply their learning in an academic or professional environment.

The communication major provides grounding in media and media production, public relations and the impact of design on these specialised areas of communication.

Major study areas

Students select one business major from:
- commercial law
- entrepreneurship and innovation
- finance
- human resource management
- international business
- management
- marketing
- tourism management.

Students also select one communication major from:
- advertising
- communication
- media studies
- public relations.

Career opportunities

Graduates will be able to explore opportunities in both the business and communication professions.

They will have the knowledge, skills and attributes applicable to a variety of contemporary careers in the private and public sectors, both locally and internationally.

Professional recognition

Graduates may be eligible for membership of the Australian Human Resources Institute, Australian Institute of Management, Australian Marketing Institute, Financial Services Institute of Australasia, Governance Institute of Australia, Public Relations Institute of Australia and Stockbrokers Association of 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.

Bachelor of Business/Bachelor of Social Science

Campus: Hawthorn

Duration: Four years full-time or equivalent part-time

VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English

Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered

Application: VTAC (Semester 1) or direct (all intakes)

VTAC code: 3400235141 (CSP), 3400235143 (IFP)

2014 Round 1 Clearly-in ATAR: 75.75

In this course students learn how to gather, synthesise and assess information, as well as conceptualise issues and express them effectively both orally and in writing within a business environment.

Students also develop theoretical insight into their chosen discipline, enabling them to understand current developments in society and the workplace, and to adapt and respond appropriately to future developments as they occur, both nationally and internationally.

Major study areas

Students select one business major from:
- advertising
- commercial law
- entrepreneurship and innovation
- finance
- human resources
- international business
- management
- marketing
- public relations
- tourism management.

Students also select one social science major from:
- community health
- politics and public policy
- psychology
- psychology and forensic science
- psychology and sport science
- security and counter terrorism
- sociology.

Career opportunities

The diverse choice of specialisations within this degree provides graduates with a wide range of career opportunities. Graduates will be prepared for employment or self-employment in the rapidly changing cultural, technological and business environments.
Bachelor of Business/Bachelor of Social Science (continued)

Professional recognition
Graduates may be eligible for membership of the Australian Human Resources Institute, Australian Institute of Management, Australian Marketing Institute, Financial Services Institute of Australasia, Governance Institute of Australia, Public Relations Institute of Australia and Stockbrokers Association of Australia.

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

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

Diploma of Business (UniLink)

Campus: Hawthorn
Duration: Eight months full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 25 in English (EAL) or at least 20 in any other English
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: VTAC (February start) or direct (all intakes)
VTAC code: 3400217521 (CSP), 3400217523 (IFP)
2014 Round 1 Clearly-in ATAR: 50.00

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 or Bachelor of Information and Communication Technology.


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.


Diploma of Business

Campus: Hawthorn, online
Duration: Six months full-time or equivalent part-time
Prerequisites: Successful completion of Certificate IV in Business or equivalent, or relevant work experience
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277244 (FTDP)

This course teaches students advanced technology and administration skills, including recruitment and team management. It equips 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 a range of Bachelor of Business degree options or a range of Bachelor of Communication degree options.


Career opportunities
Graduates are equipped for work as an executive assistant, administrative supervisor or officer, or in senior administrative positions. Graduates 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.
Business (continued)

Certificate IV in Business
Campus: Hawthorn, online
Duration: Six months full-time or equivalent part-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277244 (FTDP)
This course offers students the skills and knowledge needed to prepare them for supervisory administrative positions. Students learn people management skills, and organisational and technology skills.

Major study areas
- Leadership
- Organising meetings
- Writing and developing complex documents

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

Career opportunities
Graduates are equipped for roles including personal assistant, senior secretary, administrative officer, office supervisor and general office manager, or for further study.

Bachelor of Business (Business Administration)
Campus: Online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Application: Direct
This course provides students with an understanding of organisational management, strategies and principles to prepare them for a career at management level in business administration. Students will be introduced to a range of core business disciplines, including accounting, marketing, management and finance. They also develop practical, theoretical and conceptual skills, and an understanding about how businesses operate.

Major study areas
- Accounting
- Finance
- Leadership
- Marketing
- Professional communication

Career opportunities
Graduates may find careers in a range of business functions including administration, organisational management, marketing and finance.

Associate Degree of Business Administration
Campus: Hawthorn
Duration: Two years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 20 in any other English
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400235611 (CSP), 3400235613 (IFP)
2014 Round 1 Clearly-in ATAR: n/a
This course is designed to equip students with the skills and knowledge for a range of generalist business professions. It provides 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 provides 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 will be equipped for employment as an executive assistant, administrative supervisor or assistant, and in administrative and office management positions.

This course is a pathway to the third year of the Bachelor of Business (Business Administration).
Business administration (continued)

Certificate IV in Business Administration

Campus: Wantirna
Duration: Six months full-time or equivalent part-time
Prerequisites: None
Application: Direct

This course prepares students for work in an office environment. It provides students with the skills and knowledge to manage complex administrative practices and become qualified to operate an effective work environment. Students learn how to analyse and evaluate information from a variety of sources. They also gain the skills to assist professionals, managers and executives.

Major study areas
- Data management
- Developing complex documents and spreadsheets
- Organising meetings
- Preparing reports

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


Career opportunities
Graduates may be prepared to work as an administrator, accounts supervisor, office administrator, executive personal assistant or project assistant.

Business information systems

See Information and Communication Technologies: Bachelor of Business Information Systems and Bachelor of Business Information Systems/ Bachelor of Business.

Commercial law

Bachelor of Business (Commercial Law)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234161 (CSP), 3400234163 (IFP)
2014 Round 1 Clearly-in ATAR: 70.05

This course is designed to meet the increasing demand for business graduates with expertise in commercial law. Students gain legal problem-solving skills and learn how to assess the impact of law and regulation on an organisation. The course covers the legal aspects of contracts, marketing, intellectual property, taxation and finance, and company law.

Students will have the opportunity to apply their learning in a professionally focused, multidisciplinary project during their final year of study.

Major study areas
- Accounting
- Company and contract law
- Environment and natural resources law
- Intellectual property law
- Marketing and international business law
- Microeconomics
- Organisation and management
- Taxation and finance law

Career opportunities
Graduates will be able to provide paralegal advice and may explore career opportunities in government departments or private entities such as accounting firms, banks, conveyance companies, financial institutions and insolvency practices. They may also find employment in the not-for-profit sector.

Note: This degree does not allow graduates to practise as a barrister or solicitor.

Entrepreneurship and innovation

Bachelor of Business (Entrepreneurship and Innovation)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234281 (CSP), 3400234283 (IFP)
2014 Round 1 Clearly-in ATAR: 70.30

This degree helps students to differentiate a business idea from a tangible business opportunity and to use innovation theory and techniques to maximise that opportunity, whether economic, social or political. It focuses on experiential learning and practical application with the goal to develop entrepreneurial, creative and innovative skills.

Students learn about business scenario analysis which is used to develop strategic thinking and planning skills, explore business models, interpret sales and marketing opportunities, build an effective team and source capital funding. They analyse case studies and learn about frameworks and tools that develop entrepreneurial skills. Student participation is encouraged and guest speakers help students develop, critique and implement business plans.

Students will have the opportunity to apply their learning in a professionally focused, multidisciplinary project during their final year of study.

Major study areas
- Accounting
- Business law
- Creativity and innovation
- Entrepreneurship
- Innovation
- Start-up fundamentals
- Social entrepreneurship and innovation
- Technology innovation
- Venture development and finance

Career opportunities
Graduates will be sought in the corporate sector for their entrepreneurial skills, especially among innovative and fast-growing organisations. They may find employment in the areas of business management, business and venture analysis, enterprise architecture, innovative business creation or consultancy, or as business owner-operators.

Business and Management 3-7
Event management

Advanced Diploma of Events
incorporating Diploma of Events

Campus: Hawthorn, online
Duration: Eighteen months full-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400278194 (IFTP)

In this course students 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 course has particular relevance in the community, cultural venues, community organisations, or in hospitality, sporting and tourism sectors.

The Diploma of Events can be completed as part of a dual qualification with the Diploma of Marketing.

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 this course may allow students to progress to a range of Bachelor of Business degree options. Visit www.swinburne.edu.au/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.

Finance

Bachelor of Business (Finance)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400235391 (CSP), 3400235393 (IFP)

2014 Round 1 Clearly-in ATAR: n/a

Finance is a fast-growing field of employment. It has roots in accounting and economics and its own unique framework and knowledge base. Working across a wider field than accountants, finance professionals inform business decision-makers about financing and investment opportunities, and associated profit and security risks. Students learn how to analyse and assess financial forecasts and the value of companies, to manage risk, to investigate investment opportunities and to examine the values of shares and bonds.

Students will have the opportunity to apply their learning to a professionally focused, multidisciplinary project during their final year of study.

Major study areas
Students undertake a major in finance and combine it with other studies to add depth to their degree.

Areas of study include:
- accounting
- banking and risk management
- corporate finance
- economics
- financial markets and institutions
- financial planning
- international trade and finance
- investments.

Career opportunities
Graduates may find employment in international banking, broking, credit analysis, funds management, insurance and international finance roles. Other roles include risk management, securities analysis, investment management, consumer finance, financial forecasting, treasury management, corporate finance and economic analysis.

Professional recognition
Graduates may be eligible for membership of the Financial Services Institute of Australasia and Stockbrokers Association of Australia.

Human resources

Bachelor of Business (Human Resource Management)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400235161 (CSP), 3400235163 (IFP)

2014 Round 1 Clearly-in ATAR: 70.60

In this course students learn about the impact of human resource management (HRM) as the driver of innovation and high performance in the workplace. They gain the skills and knowledge to manage and coordinate people to achieve strategic business objectives. HRM includes staff recruitment, selection and development; employee relations management; staff training; job evaluation; change management; and occupational health and safety.

Students will have the opportunity to apply their learning to a professionally focused, multidisciplinary project during their final year of study.

Major study areas
Students undertake a major in HRM and combine it with other studies to add depth to their degree.

Areas of study include:
- leadership and performance
- managing diversity
- managing in an international setting
- managing workplace relations
- organisational behaviour and innovation
- strategic management
- sustainable organisational change.

Career opportunities
Opportunities for graduates are broad and varied. Graduates may seek employment in human resources, training management, recruitment, change management, quality coordination and customer service.

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

The human resource management major is professionally accredited by the Australian Human Resources Institute.
Human resources (continued)

Certificate IV in Human Resources

Campus: Hawthorn, online
Duration: Six months full-time or equivalent part-time
Prerequisites: Successful completion of Certificate IV in Human Resources or equivalent, or relevant work experience
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277004 (FTDP)

In this course students develop skills and knowledge of human resource (HR) operations. The course covers teamwork, occupational health and safety, plus skills in HR research, analysis and reporting.

Major study areas
- Business research and writing
- Human resource functions
- Industrial relations policies and procedures
- Leadership
- Performance management systems
- Recruitment
- Workplace safety

Pathways
Successful completion of this course may allow students to progress to the Bachelor of Business with advanced standing.


Career opportunities
Employment may be found in HR support roles such as HR assistant, officer or administrator.

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

International business

Bachelor of Business (International Business)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
Prerequisites: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234741 (CSP), 3400234743 (IFP)

2014 Round 1 Clearly-in ATAR: 70.05

The world is one of express global transportation and instant communication. This has increased demand for business graduates who are prepared to tackle the international nature of the contemporary marketplace.

International business is a fulfilling career path for those with a love of travel who are diplomatically and globally minded. This course addresses two themes: trades and investment, and cross-country management. Students discover the importance of culture, politics, trade and business policies, time zones, economic systems, currencies and business customs; and learn about their effects on an organisation with international interests.

Students have the opportunity to participate in study tours to Asia, Europe or the US, or an exchange program to gain international experience. Students also have the opportunity to apply their learning in a professionally focused, multidisciplinary project during their final year of study.

Major study areas
- Global business cultures and perspectives
- Global logistics management
- International business strategy
- International finance and law
- International investment and economic development
- Managing in the global marketplace

Career opportunities
Graduates will be equipped for careers in international trade, finance, marketing, tourism, hospitality, government departments, multinational companies and financial institutions that seek to serve international clients.
International business (continued)

 Diploma of International Business

Campus: Hawthorn
Duration: Six months full-time
Prerequisites: Successful completion of Certificate IV in International Trade or equivalent, or relevant work experience
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277224 (FTDP)

This course focuses on the various strategies involved in moving into overseas markets and the methods used to engage in international business. Students 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 this course may allow students to progress to a range of Bachelor of Business degree options or a range of Bachelor of Communication degree options.

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

Certificate IV in International Trade

Campus: Hawthorn
Duration: Six months full-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277224 (FTDP)

This course teaches students strategies for moving into overseas markets and how to engage in overseas business. The course offers studies in transportation, marketing, cultural differences, the international trade environment, customs, logistics and economics. Students gain skills and knowledge to help them work in an environment where they buy and sell goods and services on the international market.

Major study areas
- Import and export
- International law
- International trade
- Marketing in international markets
- Researching international business opportunities

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

Career opportunities
Graduates may find clerical positions working in the areas of export documentation, sales or shipping. Further study may prepare them to become customs officers and clerks, or import/export forwarders.

Legal and justice studies

 Advanced Diploma of Legal Practice

Campus: Hawthorn
Duration: Two years full-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277054 (FTDP)

This course provides students with essential skills to work in the legal area without having to complete a law degree. Students develop sound knowledge of principles and practices, including a broad overview of legal terminology. The course also teaches skills appropriate to providing guidance and services to clients in a legal environment.

Major study areas
- Document production
- Legal process
- Teamwork

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

Career opportunities
Employment may be found as a law clerk, litigation officer, conveyance clerk, mortgage clerk, family law executive, probate law clerk, legal assistant, trainee court registrar, compliance officer, assistant to parliamentary counsel and land title officer.
Logistics

Bachelor of Business (Logistics and Supply Chain Management)
Campus: Online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Application: Direct

Logistics managers are vital to acquiring the raw materials that organisations need to produce products and services, and ensure they are delivered to the final user. A skilled logistics professional can be instrumental in improving the productivity of an organisation.

In this course students learn the skills required to manage the supply chain for an organisation. Students gain project management skills, learn how to deal with external partners and develop skills in sourcing materials and negotiating prices.

Major study areas
- Global logistics
- Procurement
- Risk management
- Transportation management

Career opportunities
Graduates will be prepared for roles in business and strategic management, channel relationship management, export and import operations, purchasing and supply chain management.

Certificate IV in Justice new
Campus: Hawthorn
Duration: Six months full-time
Prerequisites: Applicants are expected to have basic computer skills and demonstrated capacity in literacy, numeracy and interpersonal communication skills
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400210224 (FTDP)

This course provides students with foundational knowledge and skills in key concepts of criminal justice, including the components and functions of the justice system, judicial processes and the administration of the law.

Students learn effective communication and problem-solving techniques to prepare them for work in a range of contexts within the criminal justice system. They also learn skills in written and oral communication for the preparation and presentation of information, documents and briefs.

Major study areas
- Corrections
- Justice
- Law enforcement
- Youth justice

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


Career opportunities
Graduates may be prepared to work as a law clerk, customs officer, case manager, clerk of court or community corrections officer.

Certificate IV in Justice new
Campus: Hawthorn
Duration: Six months full-time
Prerequisites: Successful completion of Certificate IV in Justice or equivalent, or relevant experience
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400210224 (FTDP)

This course offers students fundamental knowledge of criminal justice and related fields. It is designed to develop students’ theoretical and practical understanding of the practices and regulations of the criminal justice system and process, including quality assurance, legal and regulatory compliance, and safety regulations.

The course teaches students how to effectively manage a range of settings, including the appropriate application of law, working within family violence contexts, conflict resolution and mediation, and client services that address cultural diversity and special needs.

Students also learn skills in effective communication, problem-solving and emotional intelligence.

Major study areas
- Corrections
- Justice
- Law
- Law enforcement
- Youth justice

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


Career opportunities
Graduates may be prepared to work as a law clerk, clerk of court, customs officer, victim support officer, crime prevention officer, community prevention officer, community safety officer, victim advocate or unsworn member of a police force working on special projects.

Certificate IV in Justice new
Campus: Hawthorn
Duration: Six months full-time
Prerequisites: Successful completion of Certificate IV in Justice or equivalent, or relevant experience
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400210224 (FTDP)

This course offers students fundamental knowledge of criminal justice and related fields. It is designed to develop students’ theoretical and practical understanding of the practices and regulations of the criminal justice system and process, including quality assurance, legal and regulatory compliance, and safety regulations.

The course teaches students how to effectively manage a range of settings, including the appropriate application of law, working within family violence contexts, conflict resolution and mediation, and client services that address cultural diversity and special needs.

Students also learn skills in effective communication, problem-solving and emotional intelligence.

Major study areas
- Corrections
- Justice
- Law
- Law enforcement
- Youth justice

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


Career opportunities
Graduates may be prepared to work as a law clerk, clerk of court, customs officer, victim support officer, crime prevention officer, community prevention officer, community safety officer, victim advocate or unsworn member of a police force working on special projects.

Certificate IV in Justice new
Campus: Hawthorn
Duration: Six months full-time
Prerequisites: Successful completion of Certificate IV in Justice or equivalent, or relevant experience
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400210224 (FTDP)

This course offers students fundamental knowledge of criminal justice and related fields. It is designed to develop students’ theoretical and practical understanding of the practices and regulations of the criminal justice system and process, including quality assurance, legal and regulatory compliance, and safety regulations.

The course teaches students how to effectively manage a range of settings, including the appropriate application of law, working within family violence contexts, conflict resolution and mediation, and client services that address cultural diversity and special needs.

Students also learn skills in effective communication, problem-solving and emotional intelligence.

Major study areas
- Corrections
- Justice
- Law
- Law enforcement
- Youth justice

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


Career opportunities
Graduates may be prepared to work as a law clerk, clerk of court, customs officer, victim support officer, crime prevention officer, community prevention officer, community safety officer, victim advocate or unsworn member of a police force working on special projects.
Management

Bachelor of Business (Management)

Campus: Hawthorn, online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: Hawthorn: VTAC (Semester 1) or direct (all intakes)
Online: Direct
VTAC code: 3400235401 (CSP), 3400235403 (IFP)
2014 Round 1 Clearly-in ATAR: 70.00

Critical and collaborative thinking, as well as technical skills, are pivotal to success in modern business. In this degree 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 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.

Students will have the opportunity to apply their learning to a professionally focused, multidisciplinary project during their final year of study.

Major study areas
Students undertake a major in management and combine it with other studies to add depth to their degree.
Areas of study include:
- business and society
- critical thinking
- leadership
- management decision-making
- organisational behaviour
- strategic planning
- sustainable organisational design.

Career opportunities
Graduates may seek employment in a range of industries and positions such as administration, planning and design, quality assurance, customer service, project management, events management and change management. Good managers are in demand globally and this course provides graduates with the foundation to explore these opportunities.

Professional recognition
Graduates may be eligible for membership of the Australian Institute of Management and Governance Institute of Australia.

Certificate IV in Frontline Management

Campus: Online
Duration: Six months full-time or equivalent part-time
Prerequisites: Successful completion of Certificate IV in Frontline Management or equivalent, or relevant work experience
Application: Direct

This course provides students with comprehensive knowledge and skills in management. They develop entrepreneurial and innovative approaches to managing people, finances and projects. The course also teaches approaches to continuous improvement, quality customer service and organisational change.

Students who require management skills to enhance a technical qualification will benefit from this course. The course can be customised to enterprise requirements for those working in organisations who wish to further develop management skills and knowledge.

Major study areas
- Business writing and communication
- Customer service
- Leadership and people management
- Managing budgets and financial plans
- Marketing principles
- Sustainable business operations and systems

Pathways
Successful completion of this course may allow students to progress to the Bachelor of Business with advanced standing.

Career opportunities
Employment may be found as a coordinator, team leader or supervisor in large or small organisations.

Business and Management 3-12
Marketing

Bachelor of Business (Marketing)

Campus: Hawthorn, online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: Hawthorn: VTAC (Semester 1) or direct (all intakes)
Online: Direct
VTAC code: 3400235411 (CSP), 3400235413 (IFP)
2014 Round 1 Clearly-in ATAR: 70.45

This degree explores business principles specific to marketing to help students develop the advanced marketing and managerial skills needed to succeed in the industry. Students are taught the significance of marketing in the wider business context, focusing on the social, global and environmental responsibilities of marketers and their relationship to ethical and sustainable business practices.

The course explores how business results are achieved through the development and endorsement of a strategic customer focus, and develops entrepreneurial thinking. Students learn about buyer behaviour, innovation and design, planning, branding, channel design, integrated marketing communication and market research.

Students will have the opportunity to apply their learning to a professionally focused, multidisciplinary project during their final year of study.

Major study areas
Students undertake a major in marketing and combine it with other studies to add depth to their degree.

Areas of study include:
- brand innovation and design
- consumer behaviour
- market research
- marketing channel design and integration
- marketing communication
- product and service innovation
- strategic marketing planning.

Career opportunities
Graduates may find employment in a broad range of industries and positions such as services marketing, advertising, public relations, product or brand management, market research, direct marketing or international marketing.

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

Diploma of Marketing

Campus: Hawthorn, online
Duration: Six months full-time or equivalent part-time
Prerequisites: Successful completion of Certificate IV in Marketing or equivalent, or relevant work experience
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277264 (FTDP)

This course allows students who possess sound theory, knowledge and practical experience in marketing to progress their career prospects in sales and marketing management. It will suit students with work experience in sales or marketing who have the energy, ambition and commitment to expand their careers.

This course can be completed as part of a dual qualification with the Diploma of Business (Public Relations) or Diploma of Events.

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

Pathways
Successful completion of this course may allow students to progress to a range of Bachelor of Business degree options.

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.

Certificate IV in Marketing

Campus: Hawthorn, online
Duration: Six months full-time or equivalent part-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277264 (FTDP)

This course introduces students to marketing concepts in sales, marketing, market research, e-marketing and networking.

Major study areas
- Conducting market research
- Consumer behaviour
- Developing product knowledge
- Electronic marketing
- Presentation skills
- Writing complete documents

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

Career opportunities
Graduates may be prepared for positions in sales and marketing, and for further study.
Medical administration

Certificate III in Business Administration (Medical)

Campus: Wantirna
Duration: Six months full-time or equivalent part-time
Prerequisites: None
Application: Direct

This course covers terminology of specialist medical areas to provide greater understanding and awareness of the national medical system and the health insurance industry. The course introduces two medical software packages and students develop advanced skills to produce documents relevant to the medical industry.

Students also undertake a placement in the medical industry.

Major study areas
- Apply principles of confidentiality, privacy and security within a medical environment
- Assist in controlling stock and supplies
- Interpret and apply medical terminology
- Maintain patient records
- Prepare and process medical accounts

Pathways

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


Career opportunities

Employment may be found as a receptionist, secretary or office administrator in medical specialist fields, allied health and hospitals.

Project management

Diploma of Project Management

Campus: Online
Duration: Six months full-time or equivalent part-time
Prerequisites: Mature age with at least two years’ relevant work experience
Application: Direct

In this course students learn how to lead, plan and execute projects to strict deadlines and budgets with a practical, hands-on approach to learning. Emphasis is placed on solving business problems using theory, project management case studies and work-related projects.

Major study areas
- Communications
- Contract and procurement procedures
- Human resources management
- Project integrity processes
- Project scope management
- Quality and risk management
- Time and cost management

Pathways

Successful completion of this course may allow students to progress to the Bachelor of Business with advanced standing.


Career opportunities

Graduates have the skills and knowledge to work as a project officer or project administrator. The course will also enhance promotion prospects for graduates already in a project management or project officer role, or for those looking to begin a career in a role involving project management.

Public relations

Bachelor of Business (Public Relations)

Campus: Hawthorn, online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (IEAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: Hawthorn: VTAC (Semester 1) or direct (all intakes)
Online: Direct
VTAC code: 3400235091 (CSP), 3400235093 (IFP)
2014 Round 1 Clearly-in ATAR: 70.15

Public relations (PR) focuses on protecting and advancing clients’ reputations through effective communication and relationship-building. This course emphasises the importance of communication in reaching corporate objectives. Students learn how PR supports the implementation of strategic plans, communication planning and campaign development. Project units help students to be work-ready and capable of taking on the challenges of the dynamic professional communication sector.

Students will have the opportunity to apply their learning to a professionally focused, multidisciplinary project during their final year of study.

Major study areas

Students undertake a major in business public relations and combine it with other studies to add depth to their degree.

Areas of study include:
- commercial law
- events management
- global public relations
- issues, crisis and risk communication
- integrated marketing communication
- organisations and management
- project and campaign planning
- public relations theory and practice
- public relations writing.

Career opportunities

Graduates may find work in event management, communications, community development, public policy, digital media publishing, industrial relations, human resource management or speech writing.

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.
Public relations (continued)

Diploma of Business (Public Relations)

Campus: Hawthorn
Duration: One year full-time or equivalent part-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400278104 (FTDP)

This course provides students with the knowledge and skills to become a public relations practitioner. Students learn how to liaise with media and organise publicity campaigns, develop communications tools through print and electronic media, organise promotional events, lobby, support fundraising and community liaison, develop reputation and issues-management strategies, and engage with stakeholders.

This course can be completed as part of a dual qualification with the Diploma of Marketing.

Major study areas
- Advertising
- Consumer behaviour
- Fundraising
- Government relations
- Marketing
- Multimedia
- Public relations
- Writing for media

Pathways
Successful completion of this course may allow students to progress to the Bachelor of Business with advanced standing.


Career opportunities
Graduates may seek employment as a media officer, public relations event facilitator, community development officer, technical communicator, media information officer, public relations officer, publicity officer or website officer.

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

Real estate

Certificate IV in Property Services (Real Estate)

Campus: Wantirna, online
Duration: Five months part-time
Prerequisites: Successful completion of Course in Real Estate Agents’ Representative
Application: Direct

This course provides students with the knowledge and skills required to operate as a licensed estate agent. Students learn about risk management, legal responsibilities of estate agents, real estate accounting requirements, managing client/agency relationships, the listing and sale of properties, conducting auctions, property management, appraisal and acting as a buyer’s agent.

Major study areas
- Business management
- Property management
- Real estate compliance
- Real estate management

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


Career opportunities
Employment may be found in real estate operating as a licensed agent or in associated industries.

Sports management

Bachelor of Business (Sports Management)

Campus: Online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Application: Direct

This course develops management skills for work in the dynamic sport and leisure industry. Students complete units in sports marketing, administration and events to broaden career opportunities. This includes exploring the effects of sport on society, such as promoting healthy lifestyle choices and supporting communities. Students also develop the skills to manage community relationships and contribute to the sustainability of an organisation.

Major study areas
- Leadership and management
- Sports club and facilities management
- Sports marketing
- Sports media and advertising

Career opportunities
Graduates may find roles in sports administration, sponsorship and marketing, government organisations, sporting and health clubs, and event management. Graduates are also prepared for management positions within the sport and leisure industry.
Tourism management

Bachelor of Business (Tourism Management)

Campus: Hawthorn (some units available online)
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in accounting, business management, economics, global politics, legal studies, mathematics (any) or psychology is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 340235351 (CSP), 340235353 (IFP)
2014 Round 1 Clearly-in ATAR: 71.20

Tourism affects national and international economies, and demands a new breed of manager with both management skills and a tourism focus. In this course students examine contemporary issues in tourism, including social responsibility, ethics, equitable use of resources and global tourism futures. Students gain skills and knowledge needed to work in tourism management. They are challenged to adopt culturally sensitive attitudes and to conceptualise solutions to difficult problems.

Students will have the opportunity to apply their learning to a professionally focused, multidisciplinary project during their final year of study.

Major study areas
Students undertake a major in tourism management and combine it with other studies to add depth to their degree.

Areas of study include:
- communication
- events management
- management
- special interest tourism
- tourism enterprise development
- tourism planning and resource management
- tourist destination management.

Career opportunities
Graduates may find employment in museums, national parks, airlines, wholesale tour companies, regional tourism offices, tourist resorts, and conference and reception centres. Graduates also have the skills to establish and run their own business within the tourism field.
Design

Communication design

Bachelor of Design (Communication Design)

Campus: Hawthorn, online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in one of Art, Interactive Digital Media (VCE VET), Media, Product Design and Technology, Studio Arts or Visual Communication Design
Subject bonus: Satisfactory completion in English, business (any), desktop publishing and printing (VCE VET), product design and technology, studio arts or visual communication design is considered
Application: Hawthorn: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400236101 (CSP), 3400236103 (IFP)
2014 Round 1 Clearly-in ATAR: 78.40

This course offers students a solid understanding of communication design across a broad range of media 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 produce a portfolio that demonstrates diverse idea generation and production skills. The course has a strong technology base and provides 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.

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.

Bachelor of Design (Communication Design) (Honours)

Campus: Hawthorn
Duration: Four years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in one of Art, Interactive Digital Media (VCE VET), Media, Product Design and Technology, Studio Arts or Visual Communication Design
Subject bonus: Satisfactory completion in English, business (any), desktop publishing and printing (VCE VET), product design and technology, studio arts or visual communication design is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400236041 (CSP), 3400236043 (IFP)
2014 Round 1 Clearly-in ATAR: 91.45

This comprehensive course equips 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 produce a portfolio that reflects a focused approach to design thinking and practice, positioning 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.
Communication design (continued)

Bachelor of Design (Communication Design)/Bachelor of Business

Campus: Hawthorn
Duration: Four years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in one of Art, Interactive Digital Media (VCE VET), Media, Product Design and Technology, Studio Arts or Visual Communication Design

Subject bonus: Satisfactory completion in English, business (VCE VET), business management, desktop publishing and printing (VCE VET), product design and technology, studio arts or visual communication design is considered

Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400236011 (CSP), 3400236013 (IFP)

2014 Round 1 Clearly-in ATAR: 80.50

This course provides students with the skills necessary to introduce elements of design into business-related studies and apply sound business principles to design practice to improve commercial outcomes. Students also develop skills highly valued by employers, such as analysis, problem-solving, presentation and communication skills. Students will become well equipped for employment in an increasingly creative and technologically driven marketplace, with the ability to adapt and respond appropriately as change occurs.

Major study areas

In addition to communication design units, students select one business major from:

- advertising
- commercial law
- entrepreneurship and innovation
- finance
- human resource management
- international business
- management
- marketing
- public relations
- tourism management.

Career opportunities

Graduates may find careers in a broad range of design and business environments such as design or business consultancy, design management, advertising, publishing, education and design research or business development, or in roles related to their business major.

Professional recognition

Graduates may be eligible for membership of the Australian Graphic Design Association, Australian Human Resources Institute, Australian Institute of Management, Australian Marketing Institute, Design Institute of Australia, Financial Services Institute of Australasia, Governance Institute of Australia, Public Relations Institute of Australia and Stockbrokers Association of 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.

Design

Diploma of Design (UniLink)

Campus: Hawthorn
Duration: Eight months full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 25 in English (EAL) or at least 20 in any other English, and a study score of at least 20 in one of Art, Interactive Digital Media (VCE VET), Media, Product Design and Technology, Studio Arts, Systems Engineering or Visual Communication Design.

Subject bonus: Satisfactory completion in English, business (VCE VET), business management, desktop publishing and printing (VCE VET), product design and technology, studio arts or visual communication design is considered

Application: VTAC (February start) or direct (all intakes)
VTAC code: 3400236301 (CSP), 3400236303 (IFP)
2014 Round 1 Clearly-in ATAR: 50.00

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.


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.

Design (continued)

Certificate IV in Design

Campus: Hawthorn, Wantirna
Duration: One year full-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: Hawthorn: 3400278014 (FTDP)
Wantirna: 3401078014 (FTDP)

This course provides 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.

Career opportunities
Graduates will be prepared for further study.

Digital media design

Bachelor of Design (Digital Media Design)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in art, desktop publishing and printing (VCE VET), interactive digital media (VCE VET), media, software development, studio arts or visual communication design is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400236001 (CSP), 3400236003 (IFP)

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 employ a combination of creative design thinking, industry-relevant technical skills and research. Studies in time-based sequence design 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.

Graphic design

Advanced Diploma of Graphic Design

Campus: Hawthorn, Wantirna
Duration: Six months full-time
Prerequisites: Successful completion of Diploma of Graphic Design or equivalent
Application: VTAC (March start) or direct (all intakes)
VTAC code: Hawthorn: 3400278114 (FTDP)
Wantirna: 3401078114 (FTDP)

In this course students gain an understanding of the specialised technical, creative and conceptual skills and knowledge needed to conceive, negotiate and realise design concepts for complex projects. The course also provides students with skills in communication, organisational management and project management.

Students learn sophisticated skills in both print and digital media, including advertising and promotion, art direction, branding, corporate identity, instructional design, typography, packaging, signage and web design. They also learn how to use relevant software such as Adobe Illustrator, InDesign and Photoshop.

Major study areas
- Design theory, concept and process
- Digital art and design
- Digital imaging
- Drawing techniques
- Graphic arts
- Graphic pre-press
- Print processing
- Project management
- 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.

Career opportunities
Graduates may be prepared to work as a graphic designer or web designer in advertising; finished art studios, publishing (newspaper and magazines); retail advertising, printers, film and television production houses, educational institutions or government.
Graphic design (continued)

- Diploma of Graphic Design

**Campus:** Hawthorn, Wantirna

**Duration:** Eighteen months full-time

**Prerequisites:** Satisfactory completion of Victorian Year 12 or equivalent, or successful completion of Certificate IV in Design or equivalent, or relevant work experience. Applicants must present a folio of work.

**Application:** VTAC (March start) or direct (all intakes)

**VTAC code:** Hawthorn: 3400278114 (FTDP)

In this course students learn to create and execute design concepts efficiently and economically. The course teaches students how to combine technical, creative and conceptual skills to meet design briefs and solve a range of visual communication problems. Students 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.


**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.

Industrial design

- Bachelor of Design (Industrial Design)

**Campus:** Hawthorn

**Duration:** Four years full-time or equivalent part-time

**VCE prerequisites:** Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in one of Art, Interactive Digital Media (VCE VET), Media, Product Design and Technology, Studio Arts, Systems Engineering or Visual Communication Design

**Subject bonus:** Satisfactory completion in art, desktop publishing and printing (VCE VET), engineering studies (VCE VET), mathematics (any), product design and technology, studio arts or visual communication design is considered

**Application:** VTAC (Semester 1) or direct (all intakes)

**VTAC code:** 3400236201 (CSP), 3400236203 (IFP)

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 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 full-time or equivalent part-time

**VCE prerequisites:** Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in one of Art, Interactive Digital Media (VCE VET), Media, Product Design and Technology, Studio Arts, Systems Engineering or Visual Communication Design

**Subject bonus:** Satisfactory completion in art, building and construction (VCE VET), desktop publishing and printing (VCE VET), engineering studies (VCE VET), engineering studies (VCE VET), furnishing (VCE VET), mathematics (any), outdoor and environmental studies, product design and technology, studio arts or visual communication design is considered

**Application:** VTAC (Semester 1) or direct (all intakes)

**VTAC code:** 3400236301 (CSP), 3400236303 (IFP)

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 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
Bachelor of Design (Interior Architecture) (continued)

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.

Interior design

Diploma of Interior Design and Decoration
incorporating Certificate IV in Interior Decoration

Campus: Hawthorn  
Duration: Eighteen months full-time or equivalent part-time  
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent  
Application: VTAC (March start) or direct (all intakes)  
VTAC code: 3400278274 (FTDP)

This course provides 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.

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/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.

Photo imaging

Diploma of Photo Imaging

Campus: Wantirna  
Duration: One year full-time or equivalent part-time  
Prerequisites: An extensive working knowledge of digital SLR cameras is essential and applicants must present a folio of work. Applicants who have completed Certificate IV in Photo Imaging or a similar visual arts qualification, or who have extensive vocational experience in photo imaging, such as work experience as a photographer’s assistant, may be given preference.  
Application: VTAC (March start) or direct (all intakes)  
VTAC code: 3401071264 (FTDP)

This course teaches students about the commercial, artistic and technical aspects of photography. It also includes basic studies in business and provides students with the skills to begin their own photography business.

Major study areas
- Colour management in digital imaging
- eBusiness solutions
- Establishing networks
- Exploiting imaging trends
- Exploring photo lighting
- Freelance work
- Identifying marketing opportunities
- Producing an innovative presentation
- Producing images for a range of clients

Pathways
Successful completion of this course may allow students to progress to the Bachelor of Design (Communication Design) with advanced standing. Visit www.swinburne.edu.au/pathways for more information.

Career opportunities
Graduates may find employment in a range of photographic industry contexts, including art, domestic portrait, media, wedding, illustrative, institutional and commercial photography. Graduates are also prepared for further study.

Professional recognition
Graduates may be eligible for membership of the Australian Institute of Professional Photography.
Product design
Also see Engineering: Bachelor of Engineering (Product Design) (Honours).

Diploma of Product Design

Campus: Hawthorn
Duration: Two years full-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent. Applicants must have an appropriate level of literacy and basic computer skills. Applicants must present a folio of work and attend an interview.
Application: VTAC (March intake) or direct (all intakes)

This course students learn how to design and develop products and product ranges from client brief to end product. Students gain the skills and knowledge to use drawings, 3D models and computer designs to express their ideas; use technology, production methods and materials relevant to the industry; and meet deadlines and work within budgets. They learn how to work closely with engineers, model makers, sales and marketing staff and other colleagues.

Major study areas
■ 2D and 3D drawings
■ Computer-aided design and drawings
■ Design and production of a commercial product or product range
■ Interpreting technical drawings
■ Mechanical and electrical design
■ Product promotion
■ The design process
■ Writing a business plan
■ Writing a design brief

Career opportunities
Graduates will be prepared to work as a product designer in small and large organisations.

Visual arts

Diploma of Visual Arts

Campus: Wantirna
Duration: One year full-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age. Applicants must present a folio of work.
Application: VTAC (March start) or direct (all intakes)

This progressive, contemporary fine arts course is run by artists. It offers students study in painting, sculpture, drawing, photography, printmaking, video and digital imaging. Students gain a sound understanding of art theory and history, including conceptual and stylistic strategies of art practices since the 1960s. They also learn how to critically analyse and synthesise information from a range of sources.

Major study areas
■ Digital media
■ Life drawing
■ Painting
■ Photography
■ Printmaking
■ Public art
■ Sculpture

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

Career opportunities
Graduates may find a rewarding career in the visual arts industries where traditional practices converge with new digital technologies.

Visual merchandising

Diploma of Visual Merchandising

Campus: Wantirna
Duration: Eighteen months full-time or equivalent part-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent
Application: VTAC (March start) or direct (all intakes)

This course provides students with an understanding of the visual merchandising industry, including the principles and elements of display, the development and design of language for product presentation, the design and construction of props, styling and working to an industry brief. The course equips students with the skills and knowledge needed to work in the visual merchandising, display and exhibition industries.

Major study areas
■ 2D design
■ 3D design
■ Design and design theory
■ Digital art and design
■ History of design
■ Photo styling
■ Product presentation
■ Retail and visual merchandising
■ Retail illustration and design
■ Store design

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

Career opportunities
Graduates may find employment as a visual merchandiser in retail store visual merchandising or display departments, visual merchandising consultancy and supply companies, retail merchandising, photo styling, display production companies and exhibition design.
Digital Media

Animation
See Film and Television: Bachelor of Film and Television (Animation), Advanced Diploma of Screen and Media (specialising in Digital Media Animation) and Diploma of Screen and Media (specialising in Digital Media Animation).

Digital and interactive games
- Diploma of Digital and Interactive Games
- Certificate IV in Digital and Interactive Games

Campus: Hawthorn, Wantirna
Duration: Diploma – One year full-time
Certification – One year full-time
Prerequisites: Diploma – Successful completion of Certificate IV in Digital and Interactive Games or equivalent, or relevant experience
Certificate – None
Application: VTAC (March start) or direct (all intakes)
VTAC code: Hawthorn: 3400277394 (FTDP)
Wantirna: 3401077394 (FTDP)

These courses are suitable for those who want to learn how to create interactive web-based Flash games; databases for online 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 provide students with the skills and knowledge to become animators and game developers for online and mobile platforms. Students will 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)


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
- Bachelor of Arts (Digital Media)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in art, interactive digital media (VCE VET), media, studio arts or visual communication design is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234271 (CPP), 3400234273 (FP)

2014 Round 1 Clearly-in ATAR: n/a

This course focuses on digital media production, emphasising practical skills and creative techniques. Students 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.

Digital media design
See Design: Bachelor of Design (Digital Media Design).

Digital media technology
- Diploma of Digital Media Technologies

Campus: Hawthorn
Duration: One year full-time
Prerequisites: Successful completion of Certificate IV in Digital Media Technologies or equivalent, or relevant experience
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277404 (FTDP)

This course has been developed with industry assistance 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. Students learn about digital photography, visual design, web design, web programming, database integration and multimedia project management.

Students participate in an industry project in their final semester of study to prepare them to progress to further study in information technology.

Major study areas
- Digital photography
- Dynamic website development
- Project management
- Visual design
- Web design

Pathways
Successful completion of this course 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)


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

Certificate IV in Digital Media Technologies new
specialising in Web Programming

Campus: Hawthorn, Wantirna
Duration: One year full-time
Prerequisites: None
Application: VTAC (March start) or direct (all intakes)
VTAC code: Hawthorn: 3400277404 (FTDP)
Wantirna: 3401077404 (FTDP)

This course offers students the skills and knowledge to become a web or multimedia developer.

Major study areas
- 2D animation
- Database construction
- Digital imaging
- Digital video
- Drawing
- Interactive websites
- Motion graphics
- Visual design
- Web design
- Web programming

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

Career opportunities
Graduates are prepared for work in web design, web programming and software development. They will also be prepared for further study in information technology.

Certificate IV in Digital Media Technologies
specialising in Multimedia

Campus: Hawthorn, Wantirna
Duration: One year full-time
Prerequisites: None
Application: VTAC (March start) or direct (all intakes)
VTAC code: Hawthorn: 3400277404 (FTDP)
Wantirna: 3401077404 (FTDP)

This course offers students the skills and knowledge to create software and digital device technology.

Major study areas
- CSS
- Digital imaging
- HTML
- JavaScript
- Mobile programming
- PHP
- Project management and analysis
- SQL
- Web design
- Web tools

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

Career opportunities
Graduates are prepared for work in web design, interactive digital media, web programming, video production and post-production, and 3D modelling and animation. They will also be prepared for further study in digital media.

Games and interactivity

Bachelor of Arts (Games and Interactivity)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in art, interactive digital media (VCE VET), media, psychology, studio arts or visual communication design is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234023 (IFP)
2014 Round 1 Clearly-in ATAR: 70.70

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 develop practical and creative research and communication skills in a games lab environment.

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

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

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 will 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.
Games and interactivity (continued)

Bachelor of Arts (Games and Interactivity)/Bachelor of Computer Science

Campus: Hawthorn
Duration: Four years full-time or equivalent part-time
VCE prerequisites: Units 1 and 2 – two units (any combination) of Mathematics (any) or Units 3 and 4 – Mathematics (any); Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in art, information technology (any), interactive digital media (VCE VET), media, studio arts or visual communication design is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234721 (CSP), 3400234723 (IFP)
2014 Round 1 Clearly-in ATAR: 75.15
This double degree provides students with a broad knowledge of game design combined with the computer science skills required to develop games and interactive applications. Using a range of teaching methods, this course combines theoretical and practical knowledge, and teaches students how to apply these to the development of 2D and 3D games.
Students completing this degree will possess a highly desirable combination of skills, enabling them to find work in a variety of positions in the games industry, as well as in the broader information and communications technology sector.

Major study areas
- 3D animation
- Digital media, video and graphics
- Games development
- Interactive game structures
- Internet and multimedia
- Java and C++ software development
- Software deployment and evolution
- User experience and design

Career opportunities
Graduates will be qualified to find employment in the digital media, information technology and games industries, particularly in the rapid prototyping of games, and in C++ and Java programming. The digital media skills gained should place graduates in high demand as the media industry progressively shifts its delivery to high-definition digital platforms.

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 computer science major is professionally accredited by the Australian Computer Society.
Engineering

Biomedical

Bachelor of Engineering (Biomedical) (Honours)

Campus: Hawthorn
Duration: Four years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)
Subject bonus: Satisfactory completion in mathematical methods (CAS), science (any) or specialist mathematics is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234683 (IFP)
2014 Round 1 Clearly-in ATAR: n/a

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 medical imaging and digital health technologies 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 will 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.

Building

Advanced Diploma of Building Design (Architectural)

Campus: Croydon
Duration: Two-and-a-half years full-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age, or qualified tradesperson and practising building designer
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400170194 (FTDP)

This course covers building theory and practice related to residential, industrial and commercial buildings. Students gain specialist skills and knowledge as well as skills in problem-solving, project documentation and quality assurance.

The course satisfies the licensing requirement to become a drafting practitioner.

Major study areas
- Bushfire Attack Level assessment
- Business planning
- Computer-aided drafting
- Construction technology
- Design
- Occupational health and safety
- Project administration
- REVIT computer-assisted drawing
- Sustainable design
- Working drawings

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

Career opportunities
Graduates may take on roles as an architectural technician or building designer.

Diploma of Building and Construction (Building)

Campus: Croydon
Duration: Eighteen months to two years full-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age, or qualified tradesperson and practising building supervisor; applicants may be required to attend an interview
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400170124 (FTDP)

This course covers building theory and practice related to residential, industrial and commercial building. Students develop specialist skills and knowledge in plan interpretation, drafting, quantities take-off, estimating, scheduling, construction technology, occupational health and safety (OHS), site supervisor surveying, cost control and business management. Students also gain general skills in design, problem-solving, construction technology, project documentation and project administration, including quality assurance.

Major study areas
- Administering the legal obligations of building or construction contracts
- Applying building codes and standards to the construction process for medium-rise building projects
- Applying principles of OHS risk management
- Managing construction works/projects
- Managing project quality and risk

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

Career opportunities
Graduates may find employment as a building works supervisor, estimator, contract administrator or builder. They also have specialist skills and knowledge in running a commercial construction business.
Building (continued)

Certificate IV in Building and Construction (Building)

Campus: Croydon
Duration: Nine months full-time or two years part-time
Prerequisites: Mature age with industry experience, or undertaking an apprenticeship in the building industry
Application: Direct
This course teaches the theory and practice in relation to residential building. The course meets the minimum requirement to apply for registration as a domestic builder.

Major study areas
- Applying codes and standards
- Applying legal requirements to building and construction projects
- Construction technology
- Estimating and cost control
- Managing finances
- Managing occupational health and safety
- Planning building and construction work
- Producing labour and material schedules for ordering

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

Career opportunities
Employment may be found as a building practitioner, building works supervisor, estimator or foreperson.

Civil engineering

Bachelor of Engineering (Civil) (Honours)

Campus: Hawthorn
Duration: Four years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)
Subject bonus: Satisfactory completion in chemistry, information technology (any), physics or specialist mathematics is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234691 (CSP), 3400234693 (IFP)
2014 Round 1 Clearly-in ATAR: 60.15

Civil engineers are concerned with the design, construction and improvement of our built environment and sustainability is a key consideration. This degree provides 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 design 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
- Applying codes and standards
- Applying legal requirements to building and construction projects
- Construction technology
- Estimating and cost control
- Managing finances
- Managing occupational health and safety
- Planning building and construction work
- Producing labour and material schedules for ordering

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

Career opportunities
Graduates may find work as a planner, designer, construction manager, project engineer, researcher or forensic engineer. Graduates are also 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.
Students select one business major from:

- commercial law
- entrepreneurship and innovation
- finance
- human resource management
- international business
- management.

Major areas of study

- 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.

Construction (Construction) (Honours) New

Campus: Hawthorn

Duration: Four years full-time or equivalent part-time

VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)

Subject bonus: Satisfactory completion in chemistry, information technology (any), specialist mathematics or physics is considered

Application: VTAC (Semester 1) or direct (all intakes)

VTAC code: 3400210191 (CSP), 3400210193 (IFP)

2014 Round 1 Clearly-in ATAR: 80.15

This double degree offers students technical expertise in civil engineering principles plus business skills that are highly valued in large engineering consulting firms. These skills will also be advantageous for roles in construction management. Students gain 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. The course teaches comprehensive engineering theory and offers students hands-on practical design 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 select one business major from:

- commercial law
- entrepreneurship and innovation
- finance
- human resource management
- international business
- management.

Career opportunities

The unique combination of engineering and business skills gained through this course prepares graduates for entry into a wide range of industries, including public authorities, municipalities, consulting firms, construction companies, investment banks and infrastructure companies. Graduates may be able to take on roles as a planner, designer, construction manager, project engineer, researcher, forensic engineer, business analyst, financial controller or risk manager.

Professional recognition

Graduates may be eligible for membership of the Australian Human Resources Institute, Australian Institute of Management, Engineers Australia, Financial Services Institute of Australasia, Governance Institute of Australia and Stockbrokers Association of Australia.

The civil engineering degree is professionally accredited by Engineers Australia.

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

Computer systems technology

Electrical

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

Career Practitioners’ Reference Guide 2015

Electrical and electronic engineering

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

Career Practitioners’ Reference Guide 2015

Engineering 6-4
Certificate III in Electronics and Communications

Career Practitioners’ Reference Guide 2015

Electronics and communications engineering

Advanced Diploma of Electronics and Communications Engineering

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

Career opportunities
The unique combination of engineering and business skills prepare graduates for careers in robotics, aerospace, power systems, electronics, industrial research and manufacturing industries. Possible roles include design engineer, project planner, product designer or project manager.

Professional recognition
Graduates may be eligible for membership of the Australian Human Resources Institute, Australian Institute of Management, Engineers Australia, Financial Services Institute of Australasia, Governance Institute of Australia and Stockbrokers Association of Australia.

The electrical and electronic engineering degree is professionally accredited by Engineers Australia.

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

Electronics and communications engineering

Advanced Diploma of Electronics and Communications Engineering

Campus: Hawthorn, workplace
Duration: One year full-time
Prerequisites: Satisfactory completion of Victorian Year 11 or equivalent, or mature age
Application: Direct

This course provides students with a broad background in electronics, with an emphasis on digital technology, gate array technologies and the application of microcontrollers, communications and analogue electronics. Students learn how to commission, test, evaluate and diagnose faults in electronic systems and associated apparatus.

Major study areas
- Analyse, design, 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.


Career opportunities
Graduates may find employment in a technician position in the procurement, debugging or design fields; as a servicing and maintenance engineer in industries such as mining, telecommunications, transport, entertainment or medical electronics.
Electronics and computer systems

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

Campus: Hawthorn

Duration: Four years full-time or equivalent part-time

VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)

Professional recognition
Graduates may be eligible for membership of Engineers Australia.

This degree is professionally accredited by Engineers Australia.

Career Practitioners’ Reference Guide 2015

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

Bachelor of Engineering (Electronics and Computer Systems) (Honours)/Bachelor of Business

Campus: Hawthorn

Duration: Five years full-time or equivalent part-time

VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)

Professional recognition
Graduates may be eligible for membership of Engineers Australia.

This degree is professionally accredited by Engineers Australia.

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

Bachelor of Engineering (Electronics and Computer Systems) (Honours)/Bachelor of Business

Campus: Hawthorn

Duration: Five years full-time or equivalent part-time

VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)

Professional recognition
Graduates may be eligible for membership of Engineers Australia.

This degree is professionally accredited by Engineers Australia.

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

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.

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.

Students select one business major from:
- commercial law
- entrepreneurship and innovation
- finance
- human resource management
- international business
- management.
Career opportunities
Graduates may find careers as an engineer, product manager or designer in the chemical, defence, electronic appliances, robotics or telecommunications industries, or in industrial research. They may also find roles in any field where the ability to cope with complexity in electronic design, computer systems and software development is an asset.

Professional recognition
Graduates may be eligible for membership of Engineers Australia.

The computer science degree is professionally accredited by the Australian Computer Society.

Bachelor of Engineering (Electronics and Computer Systems) (Honours)/Bachelor of Computer Science

Career opportunities
Graduates are able to combine engineering skills with business knowledge to design innovative products for industries including aerospace, computer programming, defence, industrial and power electronics, manufacturing, medical imaging systems, power generation, robotics and telecommunications. The business major provides opportunities for management roles.

Professional recognition
Graduates may be eligible for membership of the Australian Human Resources Institute, Australian Institute of Management, Engineers Australia, Financial Services Institute of Australasia, Governance Institute of Australia and Stockbrokers Association of Australia.

The electronics and computer systems degree is professionally accredited by Engineers Australia.

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

Career opportunities
Graduates may find careers as an engineer, product manager or designer in the chemical, defence, electronic appliances, robotics or telecommunications industries, or in industrial research. They may also find roles in any field where the ability to cope with complexity in electronic design, computer systems and software development is an asset.

Professional recognition
Graduates may be eligible for membership of Engineers Australia.

The computer science degree is professionally accredited by the Australian Computer Society.

Bachelor of Engineering (Electronics and Computer Systems) (Honours)/Bachelor of Computer Science

Career opportunities
Graduates are able to combine engineering skills with business knowledge to design innovative products for industries including aerospace, computer programming, defence, industrial and power electronics, manufacturing, medical imaging systems, power generation, robotics and telecommunications. The business major provides opportunities for management roles.

Professional recognition
Graduates may be eligible for membership of the Australian Human Resources Institute, Australian Institute of Management, Engineers Australia, Financial Services Institute of Australasia, Governance Institute of Australia and Stockbrokers Association of Australia.

The electronics and computer systems degree is professionally accredited by Engineers Australia.

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

Diploma of Engineering (UniLink)

Campus: Hawthorn
Duration: Eight months full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 25 in English (EAL) or at least 20 in any other English, and a study score of at least 20 in Mathematical Methods (CAS) or Specialist Mathematics
Subject bonus: Satisfactory completion in chemistry, information technology (any), physics or specialist mathematics is considered
Application: VTAC (February start) or direct (all intakes)
VTAC code: 3400234041 (CSP), 3400234043 (IFP)

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 of 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.


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.


Associate Degree of Engineering

Campus: Hawthorn
Duration: Two years full-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 20 in any other English, and a study score of at least 20 in Mathematics (any)
Subject bonus: Satisfactory completion in chemistry, information technology (any), physics or specialist mathematics is considered
Application: VTAC or direct (Semester 1 only)
VTAC code: 3400234111 (CSP)

This degree is a broad-based point of entry into employment as an associate engineer and offers students the chance to move into study at undergraduate level.

Students complete a combination of undergraduate and vocational units. Undergraduate units are the same as those taught in Bachelor of Engineering degrees, but this course offers smaller class sizes and more contact hours to provide students with more individual support.

Major study areas
- Civil engineering
- Electrical engineering
- Engineering management
- Mechanical engineering

Career opportunities
Graduates have the opportunity to work as an engineering associate in a dynamic and changing workforce.

This degree is a pathway to:
- Bachelor of Engineering (Biomedical) (Honours)
- Bachelor of Engineering (Civil) (Honours)
- Bachelor of Engineering (Mechanical) (Honours)
- Bachelor of Engineering (Product Design) (Honours)
- Bachelor of Engineering (Robotics and Mechatronics) (Honours).

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

Certificate IV in Engineering (Post-trade)

with streams in CNC Machining, Maintenance Fluid Power and Welding

Campus: Wantirna
Duration: Two years part-time
Prerequisites: Successful completion of a fitting and machining apprenticeship, or Certificate III in Engineering, or working in a mechanically related trade
Application: Direct

This course allows students to develop skills to advance to positions of responsibility in manufacturing industries. Students select one specialisation from computer numerical control (CNC) machining, maintenance fluid power or welding.

Major study areas
- Applying quality procedures and systems
- Installing machine/plant
- Interacting with computing technology
- Performing complex milling operations and grinding operations

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


Career opportunities
Graduates may find employment in the mechanical post-trade area in roles equating to a C7 classification under the Metal Industry Award Restructure and Training Program, or in the metal fabrication industry as a certified welder, welding supervisor or welding inspector.
Engineering technology

Advanced Diploma of Engineering Technology

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

Campus: Hawthorn
Duration: Two years full-time or equivalent part-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or completion of a mechanical or fabrication trade certificate, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: Civil engineering stream: 3400227736 (FTDP)
Mechanical engineering stream: 3400227764 (FTDP)
Robotics and mechatronics stream: 34002277084 (FTDP)

This course equips students with the knowledge and skills required for a career in manufacturing, mechanical engineering, design and civil engineering. It provides 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 electromechanical 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.

Career opportunities
Graduates of the civil engineering specialisation will 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).

Mechanical engineering

Bachelor of Engineering (Mechanical) (Honours)

Campus: Hawthorn
Duration: Four years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)
Subject bonus: Satisfactory completion in chemistry, information technology (any), physics or specialist mathematics is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234611 (CSP), 3400234613 (IFP)
2014 Round 1 Clearly-in ATAR: 80.10

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 takes 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.

Engineering 6-9
Bachelor of Engineering (Mechanical) (Honours) (continued)

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.

Bachelor of Engineering (Mechanical) (Honours) / Bachelor of Business

Campus: Hawthorn
Duration: Five years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)
Subject bonus: Satisfactory completion in chemistry, information technology (any), physics or specialist mathematics is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234661 (CSP), 3400234663 (IFP)
2014 Round 1 Clearly-in ATAR: 81.90

This course allows students to enhance their mechanical engineering studies in design, manufacturing and maintenance with fundamental knowledge in the field of business. It offers students a diverse and highly valued skill set.

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 select one business major from:
- commercial law
- entrepreneurship and innovation
- finance
- human resource management
- international business
- management.

Career opportunities
With a combination of engineering and business skills graduates will be well positioned for a career in the automotive, aerospace, transport, power generation, manufacturing, materials processing, appliance production, mechanical building services, mining and raw-material conversion industries. This may include roles in design, testing, development, innovation, project management, planning, research, quality control and engineering management. The business major may provide opportunities for management and operational roles.

Professional recognition
Graduates may be eligible for membership of the Australian Human Resources Institute, Australian Institute of Management, Engineers Australia, Financial Services Institute of Australasia, Governance Institute of Australia and Stockbrokers Association of Australia.

The human resource management major is professionally accredited by the Australian Human Resources Institute.
The mechanical engineering degree is professionally accredited by Engineers Australia.
Product design engineering

Bachelor of Engineering (Product Design) (Honours)

Campus: Hawthorn
Duration: Four years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)
Subject bonus: Satisfactory completion in product design and technology, physics, specialist mathematics, studio arts or visual communication design is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234121 (CSP), 3400234123 (IFP)

2014 Round 1 Clearly-in ATAR: Range of criteria

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 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.

Renewable energy technology

Certificate IV in Renewable Energy

Campus: Wantirna
Duration: One year full-time or equivalent part-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3401071004 (FTDP)

This course teaches students how to select, install, commission, fault-find and maintain multiple renewable energy sources, including photovoltaic solar panels, solar energised battery systems, wind energy conversion systems and micro-hydro systems. They also learn about equipment used to control energy use and how to connect numerous energy sources to an electrical grid system.

Major study areas
- Electrical technology and electronics
- Renewable energy technologies
- Solar design, wind energy and photovoltaic systems
- Stand-alone renewable energy systems

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

Career opportunities
Graduates may find roles in engineering, sales, local government, system design and installation. This course provides a pathway for Clean Energy Council accreditation for stand-alone power supplies and grid connect design.
Robotic and mechatronics

Bachelor of Engineering (Robotics and Mechatronics) (Honours)

Campus: Hawthorn
Duration: Four years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)
Subject bonus: Satisfactory completion in chemistry, information technology (any), physics or specialist mathematics is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234581 (CSP), 3400234583 (IFP)
2014 Round 1 Clearly-in ATAR: 78.30

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.

Career opportunities
Graduates are 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.

Bachelor of Engineering (Robotics and Mechatronics) (Honours)/Bachelor of Business

Campus: Hawthorn
Duration: Five years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)
Subject bonus: Satisfactory completion in chemistry, information technology (any), physics or specialist mathematics is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234591 (CSP), 3400234593 (IFP)
2014 Round 1 Clearly-in ATAR: 80.45

This course combines robotics and mechatronics knowledge with business studies. It encompasses multidisciplinary and entrepreneurial skills to prepare students for leading roles in engineering corporations or to develop their own robotics and mechatronics business ventures. Students learn comprehensive engineering and business theory and gain practical hands-on 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 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.

Students select one business major from:
- commercial law
- entrepreneurship and innovation
- finance
- human resource management
- international business
- management.

Career opportunities
This combination of engineering and business knowledge provides graduates with a competitive advantage in the workforce. They are 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 the Australian Human Resources Institute, Australian Institute of Management, Engineers Australia, Financial Services Institute of Australasia, Governance Institute of Australia and Stockbrokers Association of Australia.

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

The robotics and mechatronics degree is professionally accredited by Engineers Australia.
Robotics and mechatronics (continued)

Bachelor of Engineering (Robotics and Mechatronics) (Honours)/Bachelor of Computer Science

**Campus:** Hawthorn
**Duration:** Five years full-time or equivalent part-time
**VCE prerequisites:** Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)
**Subject bonus:** Satisfactory completion in chemistry, information technology (any), physics or specialist mathematics is considered

**Application:** VTAC (Semester 1) or direct (all intakes)
**VTAC code:** 3400234991 (CSP), 3400234993 (IFP)

2014 Round 1 Clearly-in ATAR: 80.25

In this course students learn how to apply advanced computing techniques in the design and operation of robotic and mechatronic systems. Students also study mechanical engineering, electrical engineering, and electronic and software engineering. They learn about the design, development and control of diverse systems used in a range of industries, including manufacturing, medicine and the service industries.

Students participate in practical workshops and industry projects throughout 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.

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

Students also complete units in:
- computer-aided engineering
- computer science and software engineering
- data communications and networks
- electronics
- intelligent systems
- machine dynamics and design
- mechatronics systems design and development
- programming
- project management
- robotics
- structural mechanics.

**Career opportunities**
Graduates may pursue a career in the robotics, aerospace, chemical, defence, automotive or manufacturing industries where complex software plays a major role; or in businesses that require extensive technology-based support, such as banking and commerce. This may include roles as a design engineer, software engineer, project planner, product designer or project manager.

**Professional recognition**
Graduates may be eligible for membership of Engineers Australia.

The computer science degree is professionally accredited by the Australian Computer Society.

The robotics and mechatronics degree is professionally accredited by Engineers Australia.

Software engineering
See Information and Communication Technologies: Bachelor of Engineering (Software Engineering) (Honours).

Telecommunication and network engineering
See Information and Communication Technologies: Bachelor of Engineering (Telecommunication and Network Engineering) (Honours), Bachelor of Engineering (Telecommunication and Network Engineering) (Honours)/Bachelor of Business and Bachelor of Engineering (Telecommunication and Network Engineering) (Honours)/Bachelor of Computer Science.
Environment and Land Management

Carbon management

Diploma of Carbon Management

Campus: Online
Duration: One year part-time
Prerequisites: Basic computer skills
Application: Direct

Learn how to become ‘carbon accountable’. In this course students will develop the skills and knowledge needed to understand government policy and workplace requirements regarding the management of greenhouse gas emissions. Students will learn how to assess risk; assess and apply principles of energy, policy and change management; create and implement carbon management strategies; and lower an organisation’s carbon footprint.

Major study areas
- Behaviour change
- Carbon accounting and reporting
- Creation and implementation of a greenhouse gas management plan
- Organisation engagement and training in greenhouse gas management
- Principles of energy and resource efficiency

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

Career opportunities
Employment may be found in environmental or risk management positions, project management or as a consultant to industry.

Conservation and Land Management

Diploma of Conservation and Land Management

Campus: Wantirna
Duration: Diploma – One year full-time
Certificate – Two years part-time
Prerequisites: Diploma – Satisfactory completion of Victorian Year 12 or equivalent, or mature age. It is recommended that applicants have completed at least one VCE unit in chemistry, biology or mathematics.
Certificate – None
Application: Diploma – VTAC (March start) or direct (all intakes)
Certificate – Direct
VTAC code: 3401070754 (FTDP)

Students will gain a broad knowledge of environmental science and develop management strategies for the sustainable use of our resources. They will obtain a thorough understanding of the use, maintenance, conservation and management of our natural resources, including flora, fauna, soils and water.

Major study areas
- Community networks and programs
- Implementing revegetation works
- Land and water management
- Mapping systems for land management purposes
- Monitoring biodiversity
- Parks and wilderness management, parks and recreation management, vegetation and wildlife management
- Projects, contractors and budgets

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

Career opportunities
Graduates may seek roles in forest, park, water resource and catchment management; ecotourism; environmental science research; revegetation and land rehabilitation; or environmental education.

Other study options (traineeship)
A Certificate II in Conservation and Land Management is available as a traineeship.

Horticulture

Diploma of Horticulture

Campus: Wantirna
Duration: Diploma – Two years full-time
Certificate – One year full-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: Diploma – VTAC (March start) or direct (all intakes)
Certificate – Direct
VTAC code: 3401071044 (FTDP)

This course is ideal for students who wish to pursue a career in the nursery, landscape, parks and gardens, turf, arboriculture or horticulture industries. Students will learn about plant nutrition, plant health, propagation and recognition of plants, landscape design, products and services, and business management and administration.

Major study areas
- Ecologically sustainable design
- Horticulture, including nursery and plant nutrition
- Integrated pest and disease management
- Irrigation and water management
- Landscape horticulture
- Parks and gardens
- Soil science

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

Career opportunities
Employment may be found in the horticulture industry at a technical, supervisory or management level.

Professional recognition
Graduates may be eligible for membership of the Australian Institute of Landscape Designers and Managers and other industry associations.

Other study options (traineeship)
A Certificate II in Horticulture is available as a traineeship.
Landscape design

Diploma of Landscape Design

Campus: Wantirna
Duration: Eighteen months full-time or equivalent part-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3401010154 (PTDP)

This course is for those who seek a career as a landscape designer or those who are involved in a horticulture or landscape business and wish to upgrade their professional skills and knowledge. The course combines visual and creative skills with practical and technical aspects of landscape, permaculture, business and planting design.

Major study areas
- Assessing landscape sites
- Designing for construction of landscape features
- Designing sustainable landscapes
- Preparing a landscape project design
- Producing computer-aided drawings

Pathways
Successful completion of this course may allow students to progress to another qualification with advanced standing. Visit www.swinburne.edu.au/pathways for more information.

Career opportunities
Employment may be found in landscape design, or the technical, supervisory or managerial operations in domestic, private or commercial horticulture/landscape/sustainability projects.

Sustainability

Diploma of Sustainability

Campus: Online
Duration: Six months full-time
Prerequisites: This course is available to all students studying a diploma or degree, or those who have completed a diploma or higher qualification and have relevant work experience
Application: Direct

This course introduces students to key sustainability concepts, tools and practices, and provides specialised skills and knowledge that can be applied to a broad range of areas. Students will be equipped to develop and implement programs to support behaviour change, and to research and apply sustainable production and consumption principles.

Students will learn how to develop business plans for sustainable management in a business practice and to determine the advantages for businesses and organisations to align with sustainability practices.

Major study areas
- Behaviour change models, theories and programs
- Developing a business plan for responsive and sustainable business practices
- Principles of sustainable design, sustainable production and consumption
- Tools and concepts of sustainability and sustainable practices

Pathways
Successful completion of this course may allow students to progress to another qualification with advanced standing. Visit www.swinburne.edu.au/pathways for more information.

Career opportunities
Graduates may be able to integrate sustainability into their existing role, or transition into a sustainability-related career in a position such as sustainability officer, environmental and social sustainability adviser, or project manager.
Film and Television

Animation

Bachelor of Film and Television (Animation)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in art, drama, interactive digital media (VCE VET), literature, media, product design and technology, studio arts, theatre studies or visual communication design is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400210061 (CSP), 3400210063 (IFP)
2014 Round 1 Clearly-in ATAR: 76.40

This course provides 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 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.

Advanced Diploma of Screen and Media (new) specialising in Digital Media Animation

Campus: Hawthorn
Duration: One year full-time
Prerequisites: Successful completion of Diploma in Screen and Media (specialising in Digital Media Animation) or equivalent, or relevant experience
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400278984 (FTDP)

This course offers 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 this course may allow students to progress to the Bachelor of Design (Digital Media Design) or Bachelor of Film and Television (Animation) with advanced standing.

Career opportunities
Graduates may find careers in design or the film and television industries, or for further study.

Diploma of Screen and Media (new) specialising in Digital Media Animation

Campus: Hawthorn
Duration: One year full-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent; at least 12 months of an approved art, design or media course is preferred
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400278984 (FTDP)

In this course students explore principles of design for screen and production processes for animation. They also learn about video and sound design, and generating interactive media content.

Major study areas
- 2D and 3D animation
- 3D modelling and character animation
- Design for screen
- Video post-production and visual effects
- Visualisation and storyboarding

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

Career opportunities
Graduates will be prepared for work in the design or film and television industries, or for further study.
Film and television

Bachelor of Film and Television

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in art, drama, interactive digital media (VCE VET), literature, media, product design and technology, studio arts, theatre studies or visual communication design is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400236321 (CSP), 3400236323 (IFP)
2014 Round 1 Clearly-in ATAR: 90.40

This course provides students with the essential creative skills, technical knowledge and theory to make high-quality cinema, television and digital media productions. Students collaborate to make films through research, screenwriting, direction, project management and production skills such as cinematography, sound, editing and visual effects.
Creative outcomes 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 will be equipped to explore a career in cinematography, directing, producing, screenwriting, editing or sound roles in documentary, television or film production contexts. They will 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.

Advanced Diploma of Screen and Media specialising in Film and Television

Campus: Hawthorn
Duration: One year full-time
Prerequisites: Successful completion of Diploma in Screen and Media (specialising in Film and Television) or equivalent, or relevant experience
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400278064 (FTDP)

This course provides 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 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 this course may allow students to progress to the Bachelor of Film and Television with advanced standing.

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

Diploma of Screen and Media specialising in Film and Television

Campus: Hawthorn
Duration: One year full-time or eighteen months part-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent; at least 12 months of an approved art, design or media course is preferred.
Applicants must present a folio of work.
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400278064 (FTDP)

This course teaches skills, knowledge and theoretical concepts in relation to digital media and film production.

Major study areas
- Digital video and sound design
- Pre- and post-production
- Production planning and processes
- Sound recording and production

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

Career opportunities
Graduates will be prepared for work in the film, television and digital media industries, or for further study.
Health Sciences and Community Care

Aged-care work

Certificate III in Aged Care/Certificate III in Home and Community Care

Campus: Wantirna
Duration: Six months part-time
Prerequisites: None
Application: Direct

This dual qualification is suitable for those who have an interest in personal care support in aged-care services, including residential and home care, and working with people who have a disability or who are in rehabilitation. The courses are delivered via a blended delivery model, which includes face-to-face classes, online study and workplace assessment. Students may need to complete a fieldwork placement, for which they will be required to undertake a police record check.

Major study areas

- Orientation to the aged-care industry
- Providing direct care support
- Understanding dementia care
- Understanding palliative care

Pathways

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


Career opportunities

Employment may be found as an aged-care or personal-care worker with older people and people with disabilities in community and residential settings.

Alcohol and other drugs work

Certificate IV in Alcohol and Other Drugs

Campus: Hawthorn, Wantirna
Duration: Eighteen weeks full-time
Prerequisites: None
Application: Direct

In this course students learn the skills needed to work with clients in the alcohol and other drugs field, including those with complex cases. They will also learn about appropriate referrals and other support services important in the recovery process. The course focuses on mental health and dual diagnosis. Work may take place in community-based organisations, residential rehabilitation services and outreach services. Students may need to complete a fieldwork placement, for which they will be required to undertake a police record check and Working with Children Check.

Major study areas

- Assessing client needs
- Building relationships
- Providing interventions
- Undertaking case management
- Working in a legal and ethical framework

Pathways

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


Career opportunities

Employment may be found as a case worker, community support worker, detoxification worker, drug and alcohol worker, family support worker or outreach worker.

Biomedical science

See Science: Bachelor of Science (Biomedical Science).

Children’s services

Diploma of Children’s Services (Early Childhood Education and Care)*

Campus: Hawthorn, Wantirna
Duration: Eighteen months full-time or equivalent part-time; one-year part-time for students working in the industry who hold a Certificate III in Children’s Services
Prerequisites: Successful completion of Certificate III in Children’s Services
Application: VTAC (March start) or direct (all intakes)
Note: All industry applications must be directed to Swinburne.

VTAC code: Hawthorn: 3400278054 (FTDP)
Wantirna: 3401078054 (FTDP)

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

Major study areas

- Childhood development
- Family and diversity
- Health studies
- Play and curriculum studies
- Program planning

Pathways

Successful completion of this course may allow students to progress to the Bachelor of Education (Early Childhood) with advanced standing.


Traineeship

This course is also available as a traineeship.


Career opportunities

Employment may be found in early childhood services that include responsibility for the education and care of children under six years of age.

*The title of this course may change for study commencing in 2015.
Children's services (continued)

Certificate III in Children's Services*

**Campus:** Hawthorn, Wantirna
**Duration:** Six months full-time or equivalent part-time
**Prerequisites:** Demonstrated interest and suitability to work in the children's services field
**Application:** VTAC (March start) or direct (all intakes)
**VTAC code:** Hawthorn: 3400278054 (FTDP)
Wantirna: 3401078054 (FTDP)

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

**Major study areas**
- Child development
- Health and safety
- Play and curriculum studies
- Professional studies

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

**Career opportunities**
Employment may be found in a range of children’s services, including long day-care (with children aged six years and under), occasional care (with children aged six years and under) and family day-care. Employment may also be gained as an assistant in kindergartens and preschools.

*The title of this course may change for study commencing in 2015.*

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 full-time or equivalent part-time

**VCE prerequisites:** Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 20 in any other English

**Subject bonus:** Satisfactory completion in Australian politics, global politics, history (any), philosophy, psychology or sociology is considered

**Application:** VTAC (Semester 1) or direct (all intakes)
**VTAC code:** 3400234881 (CSP), 3400234883 (IFP)

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

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

**Career opportunities**
Employment may be found in a range of children’s services, including long day-care (with children aged six years and under), occasional care (with children aged six years and under) and family day-care. Employment may also be gained as an assistant in kindergartens and preschools.

Employment may also be gained as an assistant in kindergartens and preschools.

*The title of this course may change for study commencing in 2015.*

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 full-time

**VCE prerequisites:** Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 20 in any other English

**Subject bonus:** Satisfactory completion in Australian politics, global politics, history (any), philosophy, psychology or sociology is considered

**Application:** VTAC (Semester 1) or direct (all intakes)
**VTAC code:** 3400235631 (CSP), 3400235633 (IFP)

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.

Other study options
Students can complete a major in community health as part of the Bachelor of Social Science (see Arts and Social Sciences).
Community services work

Diploma of Community Services Work

Campus: Hawthorn, Wantirna
Duration: Eighteen months full-time
Prerequisites: Applicants must have completed the following two units from the Certificate IV in Community Services Work:
- Work Effectively in the Community Sector
- Work Effectively with Culturally Diverse Clients and Co-workers.

Alternatively, applicants should have one or more years’ experience in the community services sector.

Application: Direct

This course provides students with the knowledge and skills to work in the community services sector in residential and community settings. Students will learn how to provide a holistic approach to client needs, including social, emotional, psychological and practical support.

Students will need to successfully complete fieldwork placements, for which they will be required to undertake a police record check and a Working with Children Check.

The course includes a mix of delivery methods, including face-to-face class time, online work, project work and industry experience.

Major study areas
- Advocacy
- Assessment and referral
- Case management
- Communication
- Community development
- Counselling skills
- Professional practice
- Sociology

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


Career opportunities
Employment may be found in community services work and industry experience.

Professional recognition
This course is professionally accredited by the Australian Community Workers’ Association.

Certificate IV in Community Services Work

Campus: Hawthorn, Wantirna
Duration: Eighteen weeks full-time
Prerequisites: None
Application: Direct

This course provides students with the knowledge and skills to work in the community services sector in residential and community settings. Students will learn how to provide a holistic approach to client needs, including social, emotional, psychological and practical support.

The course includes a mix of delivery methods, including face-to-face class time, online work and project work.

Major study areas
- Delivering and developing client services
- Identifying and responding to children and young people at risk
- Responding holistically to client issues and referring appropriately
- Working within a community development framework

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


Career opportunities
Employment may be found in residential and community services, job respite services, employment services, private homes or training resource centres in roles such as family support worker, group facilitator, case worker, pastoral care counsellor, client service assessor, community services worker, program coordinator or manager, social welfare worker.

Professional recognition
This course is professionally accredited by the Australian Community Workers’ Association.

Disability work

Certificate IV in Disability Services Work

Campus: Hawthorn, Wantirna
Duration: Six months full-time
Prerequisites: None
Application: Direct

This course provides students with the skills and knowledge to work with people with disabilities. Students learn how to provide training and support to people with disabilities to help them achieve greater levels of independence, self-reliance and community participation.

Major study areas
- Facilitating community participation and inclusion
- Facilitating skills development and maintenance
- Maintaining an environment to empower people with disabilities
- Providing behaviour support
- Using augmentative and alternative communication strategies
- Working in a legal and ethical framework

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


Career opportunities
Employment may be found in community residential services, day respite services, employment services, private homes or training resource centres in roles such as behavioural support officer, development officer, disability officer, lifestyle support officer, residential care officer, personal care assistant or social educator.
Health Sciences and Community Care

Health assistance

Certificate III in Health Services Assistance

Campus: Wantirna
Duration: Three to six months part-time
Prerequisites: None
Application: Direct

This qualification is for students who aspire to work in an assisting role to health profession staff with the care of clients. Health services assistance involves working in direct client contact under supervision. Students may need to complete a fieldwork placement, for which they will be required to undertake a police record check.

The course is delivered via a blended delivery model, which includes face-to-face classes, online study and workplace assessment.

Major study areas
- Effective communication
- Maintaining a clean healthcare environment
- Occupational health and safety practices
- Transporting clients and patients safely

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

Career opportunities
Employment may be found in the health and community services sector in roles such as patient service attendant, orderly or ward support.

Career Practitioners' Reference Guide 2015

Education

Bachelor of Education (Primary)

Campus: Online
Duration: Four years full-time or equivalent part-time
Prerequisites: Units 1 and 2 – Mathematics (excluding Foundation Mathematics); Units 3 and 4 – a study score of at least 25 in English (any)
Application: Direct

This course equips students to become primary school teachers who use the latest technology and teaching techniques to engage children across a range of disciplines. Students develop the skills to design engaging and effective learning experiences through group work and school-based practical placements. Students also learn how to identify and address diversity, tailoring the learning experience to the needs of individuals.

The course includes four supervised practical units, placing students in early childhood settings and primary schools to develop professional teaching skills.

Major study areas
- Assessment development
- Learning experience development
- Student engagement
- Understanding behaviour

Career opportunities
Employment may be found as a teacher in primary schools.

Professional recognition
This course meets the academic requirements for the Victorian Institute of Teaching.

Bachelor of Education

Bachelor of Education (Early Childhood)

Campus: Online
Duration: Four years full-time or equivalent part-time
Prerequisites: Units 1 and 2 – Mathematics (excluding Foundation Mathematics); Units 3 and 4 – a study score of at least 25 in English (any)
Application: Direct

Effective teaching requires professionals who are able to use a range of technologies, subject content and techniques to enhance and extend children’s learning. This course provides the skills needed to engage children through visual arts, music, literacy, mathematics and creative assessment. Students will learn how to respond to family diversity, children with additional needs and Indigenous and linguistically diverse children.

The course includes five supervised practical units, placing students in early childhood settings and primary schools to develop professional teaching skills.

Major study areas
- Behaviour and relationships
- Child development
- Child engagement
- Learning experience development

Career opportunities
Employment may be found as a teacher in early childhood centres and work-based care.

Professional recognition
This course meets the academic requirements for the Victorian Institute of Teaching and the Australian Children’s Education and Care Quality Authority.
Health science

Bachelor of Health Science

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 — a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematics (any)
Subject bonus: Satisfactory completion in mathematics (any), physical education, psychology or science (any) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400235551 (CSP), 3400235553 (IFP)
2014 Round 1 Clearly-in ATAR: 63.05

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 will learn how to plan and evaluate evidence-based programs, as well as 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 will 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 will 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 will 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.

Mental health

Certificate IV in Mental Health

Campus: Wantirna
Duration: Six months part-time
Prerequisites: None
Application: Direct

This course aims to provide students with the knowledge, skills and values required to perform competently as a professional worker in the mental health sector. The course is designed to ensure a balance between theory and practice in mental health.

Students will need to successfully complete a fieldwork placement, for which they will be required to undertake a police record check.

The course is delivered via a blended delivery model, which includes face-to-face classes, online study and workplace assessment.

Major study areas
- Communicating effectively
- Understanding, planning and assessing recovery processes
- Working in the alcohol and other drugs sector and in mental health settings
- Working with diverse clients and co-workers

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

Career opportunities
Employment may be found in psycho-social rehabilitation settings, including education, mental health services, residential services and corrective services.
Nursing

Advanced Diploma of Nursing (Enrolled/Division 2 Nursing)

Campus: Wantirna
Duration: Approximately six months part-time
Prerequisites: Applicants must be registered with the Australian Health Practitioner Regulation Agency and hold a Diploma of Nursing (Enrolled/Division 2 Nursing) or equivalent
Application: Direct

This course is for enrolled/division 2 registered nurses who currently work in a variety of clinical settings and are looking to enhance their existing skills and knowledge, and diversify their skill set. The course provides students with an additional qualification in an area of speciality or interest by equipping them with advanced skills and knowledge in client assessment, care and management across a range of healthcare settings.

Major study areas
- Aged-care nursing
- Alcohol and other drugs work
- Mental health nursing
- Nursing people with chronic illness
- Palliative care nursing
- Rehabilitation nursing
- Rural and remote area nursing

Pathways
Successful completion of this course may allow students to progress to another qualification with advanced standing. Visit www.swinburne.edu.au/pathways for more information.

Career opportunities
This course may help graduates to gain new opportunities for career progression or improve their job prospects in their area of specialisation.

Diploma of Nursing (Enrolled/Division 2 Nursing)

Campus: Wantirna
Duration: Eighteen months full-time
Prerequisites: Applicants are required to complete an application form, undertake a police record check and Working with Children Check, and provide proof of immunisation records. Applicants must also attend an information session and achieve a satisfactory pass in a literacy, numeracy and comprehension test. They may also be required to attend an interview.
Application: Direct

This course provides students with the skills and knowledge needed to work as an enrolled/division 2 registered nurse in a variety of healthcare settings. Students will learn how to implement basic nursing care, assess clients’ health and analyse health-related information. They will also learn how to administer and monitor medication care for older clients, acute-care clients and people with mental health conditions.

Students must also complete 400 hours of clinical placement during the course.

Students will develop communication skills and learn how to work within legal and ethical parameters in nursing. This course also provides the opportunity to apply to undertake an undergraduate nursing course.

Major study areas
- Anatomy and physiology
- Client assessment
- Cultural diversity
- Medication administration
- Nursing care related to field of practice – acute care, aged care, mental health, palliative care
- Nursing communication

Pathways
Successful completion of this course may allow students to progress to another qualification with advanced standing. Visit www.swinburne.edu.au/pathways for more information.

Transition course
A transition course in nursing is available to registered nurses who currently hold the Certificate IV in Health (Nursing) (2457AD – post 1995) or Certificate IV in Nursing (Enrolled/Division 2 Nursing) (HLT43407). Credit transfers, Recognition of Prior Learning and gap training are available. There are no set intake periods; students may enrol in the transition course throughout the year. Major study areas include anatomy and physiology; nursing communication, medication delivery and nursing care related to field of practice.

Career opportunities
Employment may be found in a range of health settings such as acute care, aged care, rehabilitation, palliative care and mental health, either in a hospital or community setting.

Public and environmental health

Bachelor of Health Science (Public and Environmental Health)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematics (any)
Subject bonus: Satisfactory completion in biology, chemistry or specialist mathematics is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234051 (ICSP), 3400234053 (IFP)
2014 Round 1 Clearly-in ATAR: Range of criteria

This multidisciplinary course will provide students with the knowledge to assist in the protection of the environment and the health of people living within it. Students will gain expertise in planning and implementing programs in public health and environmental protection, and 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.
Information and Communication Technologies

Business information systems

Bachelor of Business Information Systems

Campus: Hawthorn
Duration: Four years full-time or equivalent part-time
VCE prerequisites: Business Studies / Accounting/ Commerce/ Business Studies major
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400223464 (CSP), 3400223466 (IFP)

This course is professionally accredited by the Australian Computer Society.

Areas of study in IS 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

Students also select one business major from:

- accounting
- advertising
- commerce
- entrepreneurship and innovation
- finance
- human resource management
- international business
- management
- marketing
- public relations
- tourism management.

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.

Bachelor of Business Information Systems/Bachelor of Business

Campus: Hawthorn
Duration: Four years full-time or equivalent part-time
VCE prerequisites: Business Studies / Accounting/ Commerce/ Business Studies major
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234561 (CSP), 3400234563 (IFP)

This double degree combines specialist studies in business information systems (IS) with a business degree, leading to the choice of a generalist or specialist career using IS and ICT to analyse business problems and develop creative and innovative solutions.

Major study areas

Areas of study in IS 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

Students also select one business major from:

- accounting
- advertising
- commerce
- entrepreneurship and innovation
- finance
- human resource management
- international business
- management
- marketing
- public relations
- tourism management.

Career opportunities

Graduates of this degree are highly sought and may gain employment in business analysis, business requirements analysis, project management solution design, business development and IS/IT consultancy.

Professional recognition

Graduates may be eligible for membership of 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 major is professionally accredited by CPA Australia. The business information systems major is professionally accredited by the Australian Computer Society. 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.
Computer science

Bachelor of Computer Science

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 1 and 2 – Mathematics (any) or Units 3 and 4 – Mathematics (any); Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English.
Subject bonus: Satisfactory completion in information technology (any), physics or specialist mathematics is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234771 (CSP), 3400234773 (IFP) 2014 Round 1 Clearly-in ATAR: 70.35

This course is professionally accredited by the Australian Computer Society.

In this course students will learn about software development tools and practices as well as receiving a sound understanding of the traditional aspects of computer science. There is a focus 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 have the option 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# and 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

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.

Computer systems technology

Advanced Diploma of Computer Systems Technology

Certificate IV in Computer Systems Technology

Campus: Hawthorn
Duration: Advanced diploma – One year full-time
Certificate – One year full-time
Prerequisites: Advanced diploma – Successful completion of Certificate IV in Computer Systems Technology or demonstrated experience in senior network support roles
Certificate – None
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277344 (FTDP)

These courses provide the skills and knowledge needed to coordinate and administer the commissioning, installation and maintenance of a range of networks, enterprise servers and systems. Students will gain a solid background in 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).


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 study in information technology.

Digital media technology


Electronics and computer systems

See Engineering: Bachelor of Engineering (Electronics and Computer Systems) (Honours)/Bachelor of Computer Science.

Games and interactivity

See Digital Media: Bachelor of Arts (Games and Interactivity)/Bachelor of Computer Science.

Information and Communication Technologies 10-2
Games development

Bachelor of Computer Science (Games Development)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 1 and 2 – Mathematics (any); Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in information technology (any) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234331 (CSP), 3400234333 (IFP)
2014 Round 1 Clearly-in ATAR: 70.15

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 will 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 is 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 Information and Communication Technology

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 1 and 2 – two units (any combination) of Mathematics (any); Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in information technology (any) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234171 (CSP), 3400234173 (IFP)
2014 Round 1 Clearly-in ATAR: 70.90

This course provides 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 is ideal for 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 will 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.

Information technology – scholarship program

Bachelor of Information Technology

Campus: Hawthorn
Duration: Three years full-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematics (any)
Subject bonus: Not applicable
Application: VTAC (Semester 1) or direct (all intakes); applicants must also submit a supplementary application form
VTAC code: 3400234311 (CSP)
2014 Round 1 Clearly-in ATAR: Range of criteria

This course is one of Australia’s most prestigious IT degrees and aims to provide future leaders for the ICT industry. It has been designed in partnership with leading Australian companies to equip students to move quickly into senior ICT positions after graduation. Students spend 40 weeks gaining direct experience in the ICT industry by working with Swinburne’s industry partners. They also receive a tax-free scholarship totalling approximately $40,000, to be paid in fortnightly instalments over the three-year course.

Students develop technical skills in databases and programming, and emphasis is placed on business analysis and problem-solving, business process management, project management, the management of information systems (IS) in organisations, the provision of IT services, social networking in organisations, and mobile business and connectivity. The course also includes business units aimed at developing managerial and leadership skills.

Major study areas
Areas of study include:
- business analysis and modelling
- business information systems
- business intelligence
- database management
- enterprise systems
- information systems management
- management and accounting
- mobile business and security
- organisational behaviour
- programming (C, Pascal, VB, Java)
- project management.

Many units are also designed to develop skills in interpersonal communication, teamwork and management.

Career opportunities
This degree has a high employment rate. Graduates may find employment in a range of ICT positions, including systems analyst, software developer, ICT security analyst, business analyst, ICT policy and governance, IT/IS consultant or project manager.

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

Diploma of Information Technology (UniLink)

Campus: Hawthorn
Duration: Eight months full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 25 in English (EAL) or at least 20 in any other English
Subject bonus: Satisfactory completion in information technology (any) is considered
Application: VTAC (February start) or direct (all intakes)
VTAC code: 3400210021 (ICSP), 3400210023 (IFP)
2014 Round 1 Clearly-in ATAR: 50.70

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.


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.


Network design and security

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

Campus: Hawthorn
Duration: Three year full-time or equivalent part-time
VCE prerequisites: Units 1 and 2 – two units (any combination) of Mathematics (any); Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in information technology (any) and IT systems (VCE VET) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234211 (ICSP), 3400234213 (IFP)
2014 Round 1 Clearly-in ATAR: 76.10

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

The course also has a strong industry focus that prepares 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.

Diploma of Information Technology Networking

Campus: Hawthorn
Duration: One year full-time or equivalent part-time
Prerequisites: Successful completion of Certificate IV in Information Technology Networking or demonstrated experience in network support
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277074 (FTDP)

In this course students will 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 this course 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).


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.
Network design and security (continued)

Certificate IV in Information Technology Networking

Campus: Hawthorn, Wantirna
Duration: One year full-time or equivalent part-time
Prerequisites: None
Application: Direct

This course provides training in networking, Linux administration, Windows servers, security and client support. Students can also enrol in Cisco qualifications (IT Essentials and Cisco I & II). Students will gain the skills and knowledge needed to install and manage small-scale networks, either as an independent network support technician or as part of a team.

Major study areas
- Client business requirements
- Copyright, ethics and privacy in IT environments
- Internet protocol networks
- Network and data integrity
- Occupational health and safety
- Servers
- Small enterprise branch networks
- Virtual machines for sustainable ICT

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


Career opportunities
Graduates may find employment in the areas of network support and network technician. Alternatively, graduates may undertake further study in computing, network design and security, telecommunications and related areas.

Robustics and mechatronics
See Engineering: Bachelor of Engineering (Robotics and Mechatronics) (Honours)/Bachelor of Computer Science.

Software development

Bachelor of Applied Information and Communication Technology

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 — a study score of at least 30 in English (EAL) or at least 25 in any other English

Subject bonus: Successful completion in information technology (any) is considered

Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234811 (CSP), 3400234813 (IFP)

2014 Round 1 Clearly-in ATAR: n/a

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 provides 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 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.

Associate Degree of Applied Information and Communication Technology

Campus: Hawthorn
Duration: Two years full-time or equivalent part-time
VCE Prerequisites: Units 3 and 4 — a study score of at least 30 in English (EAL) or at least 20 in any other English

Subject bonus: Successful completion in information technology (any) is considered

Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400235501 (CSP)

2014 Round 1 Clearly-in ATAR: n/a

This course gives students the opportunity to develop skills and knowledge in user-centred design for software and web applications, software and web programming, and contemporary software development processes and technologies.

Major study areas
- Business systems solutions
- Computer systems and networks
- Emerging web technologies
- Local area networking
- Programming
- Software development
- Website development

Career opportunities
Graduates may find employment in roles such as web developer, multimedia developer, mobile application developer, systems architect, business requirements analyst, quality assurance analyst, user-interface analyst, technical writer and application integration specialist.

This degree is a pathway to the third year of the Bachelor of Applied Information and Communication Technology.

Information and Communication Technologies 10-5
Software engineering

Bachelor of Engineering (Software Engineering) (Honours)

Campus: Hawthorn
Duration: Four years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS) or Specialist Mathematics
Subject bonus: Satisfactory completion in information technology (any), mathematics (any) or physics is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234861 (CSP), 3400234863 (IFP)
2014 Round 1 Clearly-in ATAR: 80.85

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 will 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 allows students to gain specialised skills in a variety of areas, including telecommunications, robotics and mechatronics, pervasive computing and mobile systems development.

Major study areas
- Electronics
- Engineering management
- Enterprise programming
- Mathematics
- Programming (C++, 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 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 full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)
Subject bonus: Satisfactory completion in chemistry, information technology (any), physics or specialist mathematics is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234871 (CSP), 3400234873 (IFP)
2014 Round 1 Clearly-in ATAR: n/a

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 provides students with a professional understanding of the science and engineering principles underlying telecommunication and network engineering, and the ability to apply that knowledge. Students will also acquire a detailed understanding of appropriate engineering methods and techniques, and have competence in their application. Elective units 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
Bachelor of Engineering (Telecommunication and Network Engineering) (Honours) (continued)

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.

Career opportunities
Graduates may find rewarding careers in the converging business, telecommunications, multimedia, computing and information technology industries.

They may find roles as an internet applications engineer or manager, telecommunications systems designer, broadband network designer, embedded telecommunications systems designer, embedded software systems designer, network switching and protocol designer, or analyst/designer/manager of internal corporate broadband networks.

Professional recognition
Graduates may be eligible for membership of the Australian Human Resources Institute, Australian Institute of Management, Engineers Australia, Financial Services Institute of Australasia, Governance Institute of Australia and Stockbrokers Association of Australia.

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

The telecommunication and network engineering degree is professionally accredited by the Australian Computer Society and Engineers Australia.
Telecommunication and network engineering (continued)

Bachelor of Engineering (Telecommunication and Network Engineering) (Honours)/Bachelor of Computer Science

Campus: Hawthorn
Duration: Five years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematical Methods (CAS)
Subject bonus: Satisfactory completion in chemistry, information technology (any), physics or specialist mathematics is considered.
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234911 (CSP), 3400234913 (IFP)
2014 Round 1 Clearly-in ATAR: n/a

Telecommunication and network engineers design, implement and facilitate the communication infrastructure of today’s businesses. This double degree offers a comprehensive combination of studies in computer hardware, telecommunications and software engineering to prepare students for roles as technical experts in their field. Students gain a professional understanding of the science and engineering principles underlying telecommunication and network engineering, and competency in industry-relevant engineering methods and techniques. The course focuses on applications involving multimedia and on web-based systems, with an emphasis on the design of effective human–computer interfaces. Elective units prepare students to obtain both Cisco Systems and Microsoft Industry certificates.

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
Areas of study include:
- communications theory and principles
- electronics
- engineering management
- enterprise services and security
- mathematics
- network design and security
- network modelling and analysis
- programming
- software engineering
- wireless communications.

Students also study computer science units such as software development, databases, data communications and software engineering.

Career opportunities
Graduates may find employment in areas such as 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; software engineering; and development of complex software systems.

Professional recognition
Graduates may be eligible for membership of Engineers Australia.

The computer science degree is professionally accredited by the Australian Computer Society.
The telecommunication and network engineering degree is professionally accredited by the Australian Computer Society and Engineers Australia.

Information and Communication Technologies 10-8
Media and Communications

Advertise for students or staff.

Areas of study include:
- advertising issues – regulations, ethics and cultural considerations
- concept development and copywriting
- design fundamentals
- marketing
- media studies
- professional communication
- visual language.

Career opportunities
Graduates can expect to work in agency or in-house roles that involve providing leadership and/or major input into advertising design and implementation. Employment may be found in marketing and public relations agencies and in the sales, marketing, digital or communication departments of large organisations, or in roles working with human resources groups in organisations that regularly advertise for students or staff.

Communication
Also see Business and Management: Bachelor of Business/Bachelor of Communication.

Bachelor of Communication
Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in Australian politics, history (any), literature, LOTE (any) or media is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400235321 (ICSP), 3400235323 (IFP)
2014 Round 1 Clearly-in ATAR: 70.20

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
Hawthorn
Advertising: In this major students learn about effective design and strategy, and advertising development, implementation and evaluation, enabling them to design advertisements that not only please clients but achieve the ultimate purpose of reaching the audience in the desired way. Through careful matching of practical projects with appropriate theory, in line with current professional standards and requirements, this course provides students with the vital knowledge and skills needed to succeed in the complex and creative world of advertising.

Media Studies:
As for Hawthorn campus.

Public Relations:
Students who complete this major graduate with a Bachelor of Communication (Public Relations).

Double degree opportunities
- Bachelor of Business/Bachelor of Communication (see Business and Management)

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.

Online
Media Studies: As for Hawthorn campus.

Students who complete this major graduate with a Bachelor of Communication (Media Studies).

Public Relations: As for Hawthorn campus.

Students who complete this major graduate with a Bachelor of Communication (Public Relations).

Bachelor of Communication
Campus: Hawthorn, online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in Australian politics, history (any), literature, LOTE (any) or media is considered
Application: Hawthorn: VTAC (Semester 1) or direct (all intakes)
Online: Direct
VTAC code: 3400235011 (ICSP), 3400235013 (IFP)
2014 Round 1 Clearly-in ATAR: 65.25

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
Hawthorn
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 provides the opportunity to develop the vital knowledge and skills needed to succeed in the complex and creative world of advertising.

Communication: This major prepares 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 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.
Journalism

Bachelor of Arts (Journalism)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in Australian politics, history (any), literature, media or philosophy is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234011 (CSP), 3400234013 (IFP)
2014 Round 1 Clearly-in ATAR: 70.05

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. It allows students to publish and broadcast their work in online, television, radio and print outlets. The course also provides students with an understanding of the broad social, historical, legal and moral context of journalism.

On completion of this course, students will have developed a portfolio of work to show potential employers. The hands-on skills and theoretical understanding gained will 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 also have the opportunity to study shorthand. Other units give students an understanding of the social and political context in which journalists work.

Career opportunities
Graduates will be equipped for roles in journalism, new media, publishing, media research, writing, communications, television, radio, multimedia content production, news agency work and magazine production.

Diploma of Screen and Media specialising in Broadcast Journalism

Campus: Hawthorn
Duration: One year full-time
Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400278294 (FTDP)

In this course students develop an understanding of the relationship between the media and community, and society and industry. They learn practical production and presentation skills in multi-platform journalism, including radio, television, print and online. Students also gain experience in photojournalism and coordinating television programs, and participate in weekly live-to-air radio broadcasts.

Major study areas
- Conducting interviews
- Digital production techniques
- Exploring issues on radio
- Producing and coordinating television programs
- Writing persuasive copy

Pathways
Successful completion of this course may allow students to progress to another qualification with advanced standing. Visit www.swinburne.edu.au/pathways for more information.

Career opportunities
Graduates will possess the skills to work as journalists in radio, television or online settings. They will also be able to write for online media and undertake photojournalism assignments in their chosen field.

Media and communication

Bachelor of Arts (Media and Communication)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in Australian politics, history (any), literature, LOTE (any) or media is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234071 (ICSP), 3400234073 (IFP)
2014 Round 1 Clearly-in ATAR: 70.20

This course offers students a broad and practical approach to media studies, preparing them for work in the media, communications and multimedia industries. Students 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 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 are equipped with the conceptual and practical skills necessary to actively and creatively contribute to today’s media world, placing them in high demand in a variety of media industries. 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.

Other study options
Students can complete a major in media as part of the Bachelor of Arts (see Arts and Social Sciences).
Media studies

Bachelor of Communication (Media Studies)

Campus: Hawthorn, online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in Australian politics, history (any), literature, LOTE (any) or media is considered
Application: Hawthorn: VTAC (Semester 1) or direct (all intakes)
Online Direct
VTAC code: 3400234951 (CSP), 3400234953 (IFP)
2014 Round 1 Clearly-in ATAR: 70.20

In this course students acquire knowledge of current media theories and learn to write for print, broadcast and digital media outlets. Students engage in debate about globalisation, media ownership, policy and regulation, as well as advances in digital technologies and social media. They also have the opportunity to gain hands-on digital and communication experience through practical project units.

Major study areas

Students undertake a major in media studies and combine it with other studies to add depth to their degree.
Areas of study include:
- advertising
- Australian media studies and policy
- design fundamentals
- marketing
- professional communication
- screen studies
- social media.

Career opportunities

Graduates may find employment in interactive content creation, journalism, radio, public relations, communication research, advertising, digital media production, web design, video production and architectural visualisation.

Professional writing and editing

Bachelor of Arts (Professional Writing and Editing)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in Australian politics, history (any), literature, media or philosophy is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400235651 (CSP)
2014 Round 1 Clearly-in ATAR: 70.75

This practical, cross-disciplinary course is designed to provide students with skills in writing and editing in the professional sphere. Students develop practical skills required to meet industry standards and become well equipped to work as a professional writer and/or editor.

With a focus on designing and developing text, students gain an understanding of industry laws and regulations, as well as writing and editing skills for novels, non-fiction, creative fiction, scripts, screenwriting, advertising and the web.

Major study areas

- Australian writing and cultural change
- Digital literacies
- Editing for publication
- Novel writing
- Reading, writing and criticism
- Texts and contexts of media, literature and film
- Writing short non-fiction

Career opportunities

Graduates will be prepared for roles in advertising agencies, government, business and community groups. They may enjoy careers as writers, editors, and media and communication professionals. Graduates may also find roles in book and magazine publishing, print and broadcast journalism, copywriting, web development, public relations, scriptwriting or administration.

Diploma of Professional Writing and Editing

Campus: Hawthorn
Duration: One year full-time or equivalent part-time
Certificate: One year full-time or equivalent part-time
Note: Part-time studies may be offered subject to availability.
Prerequisites: Diploma – Satisfactory completion of Victorian Year 12 or equivalent, plus relevant competencies from the Certificate IV in Professional Writing and Editing, or equivalent industry experience
Certificate – Satisfactory completion of Victorian Year 12 or equivalent, or mature age
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400278034 (FTDP)

These courses provide students with skills in writing and editing for employment or for further study. Students develop awareness of industry standards and demands, and gain knowledge of the markets available to professional writers and editors. Units cover industry laws and regulations; designing and developing text documents; writing and editing skills for novels, short stories, popular fiction and children’s books; advertising; and writing for the web.

Major study areas

- Corporate writing
- Editing
- Fiction writing
- Journalism
- Non-fiction writing
- Scriptwriting
- Writing for public relations and digital media

Pathways

Successful completion of this course may allow students to progress to the Bachelor of Arts (Professional Writing and Editing) with advanced standing.

Career opportunities

Technical and professional writers work in a range of fields, including high-technology industries, business, government, and research and non-profit organisations. Careers available to graduates include multimedia communication; technical, medical and scientific writing; marketing; and journalism.
Public relations
Also see Business and Management: Bachelor of Business (Public Relations) and Diploma of Business (Public Relations).

Bachelor of Communication (Public Relations)
Campus: Hawthorn, online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in Australian politics, history or literature is considered
Application: Hawthorn: VTAC (Semester 1) or direct (all intakes)
Online: Direct
VTAC code: 340235341 (CSP), 3400235343 (IFP)
2014 Round 1 Clearly-in ATAR: 70.45
Public relations professionals frequently work alongside designers of graphics, multimedia, websites, products and events. In recognition of these relationships, design forms the central theme of this course. Students learn the language of design to help them write effective design briefs. Students produce portfolios that can serve as academic and professional achievements for employment purposes.

Major study areas
Students undertake a major in public relations and combine it with other studies to add depth to their degree.
Areas of study include:
- campaign planning
- design fundamentals
- event management
- global public relations
- issues, crisis and risk communication
- marketing
- professional communication
- public relations writing.

Career opportunities
Graduates may find roles in event management, public relations, community relations, promotions, investor relations, advertising, government relations, marketing, product publicity, issue management, crisis and risk communication, and media relations.

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.
Psychology

Bachelor of Arts (Psychology)
Bachelor of Social Science (Psychology)

Campus: Hawthorn, online
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in health and human development, legal studies, mathematics (any), physical education, psychology or science (any) is considered
Application: Hawthorn: VTAC (Semester 1) or direct (all intakes)
Online: Direct
VTAC code: Arts: 3400234441 (CSP), 3400234443 (IFP)
Social Science: 3400234451 (CSP), 3400234453 (IFP)
2014 Round 1 Clearly-in ATAR: Arts: 70.05
Social Science: 70.15

Studying psychology provides students with the knowledge and skills to understand and explain human behaviour and relationships. Students 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. Students enrolled online graduate with a Bachelor of Social Science.

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.

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.

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.

Bachelor of Science (Psychology)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematics (any)
Subject bonus: Satisfactory completion in health and human development, legal studies, physical education, psychology or science (any) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400234451 (CSP), 3400234453 (IFP)
2014 Round 1 Clearly-in ATAR: 70.05

Studying psychology provides students with the knowledge and skills to understand and explain human behaviour and relationships. This degree provides specialised study in developmental psychology, cognition, social psychology, personality, design and measurement, psychological measurement and abnormal psychology. Students 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.

Other study options
Students can complete a major in psychology as part of the Bachelor of Health Science (see Health Sciences and Community Care).
Career Practitioners’ Reference Guide 2015

Psychology and Forensic Science

- Bachelor of Arts (Psychology and Forensic Science)
- Bachelor of Social Science (Psychology and Forensic Science)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in health and human development, legal studies, mathematics (any), physical education, psychology or science (any) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: Arts: 3400234091 (CSP), 3400234093 (IFP)
Social Science: 3400234151 (CSP), 3400234153 (IFP)
2014 Round 1 Clearly-in ATAR: Arts: 70.05
Social Science: 70.05

This degree provides 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 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 will be an advantage for those wanting to work within the justice system. It also provides the first step to becoming a professional psychologist. Graduates can 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 full-time or equivalent part-time
VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematics (any)
Subject bonus: Satisfactory completion in health and human development, legal studies, psychology or science (any) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: Arts: 3400234141 (CSP), 3400234143 (IFP)
Science: 3400234141 (CSP), 3400234143 (IFP)
2014 Round 1 Clearly-in ATAR: Arts: 71.00
Science: 70.05

This course is unique to Swinburne and encompasses the fields of psychology and cognitive and behavioural neurosciences.

The psychology major provides 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 provide an understanding of physiological processes relevant to the study of psychology and address neuroanatomy, neuropsychology, 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
- Neuropsychology
- Psychology of personality
- Sensation and perception
- Sleep and attention

Psychology 12-2
Psychology and Psychophysiology (continued)

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 (Psychology and Sport Science)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time

VCE prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English
Subject bonus: Satisfactory completion in health and human development, legal studies, mathematics (any), physical education, psychology or science (any) is considered

Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: Arts: 3400234831 (CSP), 3400234833 (IFP)
Social Science: 3400234841 (CSP), 3400234843 (IFP)

2014 Round 1 Clearly-in ATAR:
Arts: 70.30
Social Science: 70.65

This course provides 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 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
Science

Applied mathematics

Bachelor of Science (Applied Mathematics)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE Prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, a study score of at least 25 in Mathematical Methods (CAS) and a study score of at least 25 in one of Biology, Chemistry, Physics or Specialist Mathematics
Subject bonus: Satisfactory completion in physical education or science (any) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400210171 (CSP), 3400210173 (IFP)

2014 Round 1 Clearly-in ATAR: New

Mathematics provides the framework to express our understanding of nature, technology and finance. This course provides students with a broad understanding of mathematical and numerical methods used to describe phenomena in the physical sciences and finance.

Students have the option of specialising in molecular dynamics, geophysical fluid dynamics, hydrodynamic instability theory, computational biology, dynamical systems and optimisation.

Major study areas
- Advanced mathematical methods
- Applied mathematical statistics
- Computational mathematics
- Differential equations
- Engineering mathematics
- Stochastic modelling

Career opportunities
Graduates may find employment in a range of areas, including biostatistics, defence science, education economics, environmental science, information science, market research, quantitative finance, scientific research, space exploration industries, telecommunications.

Biochemistry and chemistry

Bachelor of Science (Biochemistry and Chemistry)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE Prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematics (any)
Subject bonus: Satisfactory completion in physical education or science (any) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400210241 (CSP), 3400210243 (IFP)

2014 Round 1 Clearly-in ATAR: New

In this course students study the molecules of life – including enzymes, proteins and DNA – and the fundamental nature of matter in terms of molecules, reactions and properties. The course examines how biochemical knowledge can be applied to a range of industries and medical investigations, focusing on skills such as culturing microorganisms and investigating complex molecules such as enzymes and DNA.

Major study areas
- Analytical chemistry
- Biotechnology
- DNA analysis
- Environmental science
- Forensic science
- Genes and proteins
- Microbiology
- Molecular and cell biology

Career opportunities
Employment may be found in areas such as analytical chemistry and biochemistry, medical research, environmental research, clinical biochemistry, biotechnology, industrial chemistry, microbiology, food production, agricultural biochemistry, beverage production, fermentation technology, pharmaceutical production, biomedicine research, protein engineering, wine science, waste treatment, biodegradation and bioremediation.

Professional recognition
Graduates may be eligible for membership of the Australian Biotechnology Association, Australian Society for Biochemistry and Molecular Biology, Australian Society for Microbiology and Royal Australian Chemical Institute.

This degree is professionally accredited by the Royal Australian Chemical Institute.

Biomedical

Bachelor of Science (Biomedical Science)

Campus: Hawthorn
Duration: Three years full-time or equivalent part-time
VCE Prerequisites: Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematics (any)
Subject bonus: Satisfactory completion in physical education or science (any) is considered
Application: VTAC (Semester 1) or direct (all intakes)
VTAC code: 3400210161 (CSP), 3400210163 (IFP)

2014 Round 1 Clearly-in ATAR: 70.05

This course puts the application of biology-based sciences – such as anatomy and physiology – to clinically related uses, particularly in health monitoring, treatment or related research. It blends chemistry, human anatomy and physiology to provide students with a basic scientific understanding, as well as knowledge of the technology and modern instrumentation used in clinical care and monitoring environments such as analytical and research laboratories. Students study many of the functional aspects of the human body, but the major focus is on the building blocks of physiology.

Major study areas
- Anatomy and physiology
- Biological sciences
- Biomedical science
- Cardiopulmonary physiology
- Chemistry
- Human measurement
- Neurophysiology

Career opportunities
Graduates may find work in hospital laboratories, including intensive-care support and medical technologist positions in cardiovascular, respiratory and neurosurgical medicine. Employment may also be found in the healthcare sector, medical equipment companies and the sport science area, and some sections of forensic science.
Biotechnology

**Bachelor of Science (Biotechnology)**

**Campus:** Hawthorn

**Duration:** Three years full-time or equivalent part-time

**VCE Prerequisites:** Units 3 and 4 – a study score of at least 30 in English (ESL) or at least 25 in any other English, and a study score of at least 20 in Mathematics (any)

**Subject bonus:** Satisfactory completion in physical education or science (any) is considered

**Application:** VTAC (Semester 1) or direct (all intakes)

**VTAC code:** 3400324241 (CSP), 3400324243 (IFP)

**2014 Round 1 Clearly-in ATAR:** n/a

Biotechnology is the applied science of using living organisms and their by-products for commercial development. Everyday items such as milk, beer, antibiotics, biodegradable plastics and biofuels are all biotechnology commodities. Many biotechnologists work with recombinant DNA, cell fusion, bio-processing techniques and environmental biotechnology.

In this course students will examine the fundamental sciences that underpin biotechnology – chemistry, biochemistry, microbiology and statistics – while investigating the application of biotechnology to areas such as business, ethics and environmental science. Students have the option to take major studies in chemistry, environmental science or other areas.

**Major study areas**

- Biochemistry
- Biotechnology
- Chemistry
- DNA analysis
- Genes and proteins
- Microbiology
- Molecular and cell biology

**Career opportunities**

Graduates may pursue a career in a range of fields, including medical, environmental or biomolecular research, clinical biochemistry, food or beverage production, agricultural biochemistry, fermentation technology, wine science, pharmaceutical production, protein engineering, waste treatment, biodegradation and bioremediation.

**Professional recognition**

Graduates may be eligible for membership of the Australian Biotechnology Association, Australian Society for Biochemistry and Molecular Biology, Australian Society for Microbiology and Royal Australian Chemical Institute.

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Chemistry

**Bachelor of Science (Chemistry)**

**Campus:** Hawthorn

**Duration:** Three years full-time or equivalent part-time

**VCE Prerequisites:** Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematics (any)

**Subject bonus:** Satisfactory completion in physical education or science (any) is considered

**Application:** VTAC (Semester 1) or direct (all intakes)

**VTAC code:** 3400210181 (CSP), 3400210183 (IFP)

**2014 Round 1 Clearly-in ATAR:** n/a

Chemistry involves the fundamental study of how molecules react and the applied study of how we can detect and use them. Chemistry is applied in a range of fields such as medicine, food production, cleaning products and environmental protection.

This course covers far-reaching applications of chemistry, including forensic science, polymer formation, water analysis, the creation of new materials, agricultural chemistry, environmental science and analytical chemistry.

**Major study areas**

- Analytical chemistry
- Biochemistry
- Chemistry
- Environmental chemistry
- Environmental science
- Forensic science
- Industrial chemistry
- Polymer science
- Surface chemistry

**Career opportunities**

Graduates may find employment in a range of areas such as industrial chemistry, chemical research and analysis, environmental and agricultural research, nanotechnology, food and drink technology, forensic science, the petrochemical industry, the pharmaceutical industry, quality control, water-quality analysis and the wine industry.

**Professional recognition**

Graduates may be eligible for membership of the Association of Professional Engineers, Scientists and Managers, Australia; and Royal Australian Chemical Institute.

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Environmental science

**Bachelor of Science (Environmental Science)**

**Campus:** Hawthorn

**Duration:** Three years full-time or equivalent part-time

**VCE Prerequisites:** Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English and a study score of at least 20 in Mathematics (any)

**Subject bonus:** Satisfactory completion in physical education or science (any) is considered

**Application:** VTAC (Semester 1) or direct (all intakes)

**VTAC code:** 3400210201 (CSP), 3400210203 (IFP)

**2014 Round 1 Clearly-in ATAR:** New

Environmental science applies evidence-based, scientifically sound principles of sustainable development to address the causes of environmental hazards. This course provides students with an understanding of the relationship between local, global, social and ecological issues and the responsibility of the different groups involved in sustainability. This knowledge is combined with scientific skills, such as chemistry, biology and microbiology, to address environmental sustainability in the future.

**Major study areas**

- Built and sustainable communities
- Environmental biology
- Environmental management
- Microbes in the environment
- Water science

**Career opportunities**

Graduates may find employment in a range of areas, including environmental risk assessment and protection; renewable energy development; agriculture and wetland restoration; energy efficiency management; air, soil and water quality monitoring; carbon, waste and resource management; sustainability analysis, including policy and legislative advice; and building sustainable communities.
Health science
Also see Health Sciences and Community Care: Bachelor of Health Science.

Laboratory technology

Diploma of Laboratory Technology specialising in Biotechnology

Campus: Hawthorn
Duration: Two years full-time or equivalent part-time
Prerequisites: Satisfactory completion of Year 12 or equivalent, or mature age with at least basic capability in literacy and numeracy
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277464 (FTDP)

This course provides scientific education with a strong emphasis on the development of sound practical skills for the biotechnology sector. Students become competent in meeting the technological and administrative demands of biosciences laboratory support work in applied research and/or process or product development.

Major study areas
- Data analysis
- Laboratory information management systems
- Maintaining safe working conditions
- Quality assurance and continuous improvement
- Specialised testing methodologies: tissue culture, molecular biological techniques, microbiology, chromatography, spectrophotometry

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

Traineeship
This course is also available as a traineeship.

Career opportunities
Employment may be found as a laboratory technician, technical officer or similar support staff to scientists in laboratory-related workplaces in manufacturing, research and education.

Diploma of Laboratory Technology specialising in Forensic and Pathology Testing

Campus: Hawthorn
Duration: Two years full-time or equivalent part-time
Prerequisites: Satisfactory completion of Year 12 or equivalent, or mature age with at least basic capability in literacy and numeracy
Application: VTAC (March start) or direct (all intakes)
VTAC code: 3400277474 (FTDP)

In this course students will develop the scientific knowledge and practical skills required to work in some areas of the forensic science and pathology testing industry. They become equipped for work in government agencies, paternity/maternity testing, and health/disease-related testing and monitoring.

Major study areas
- Clinical chemistry
- Data collection, processing and management
- Drugs testing
- Industry regulation
- Haematology
- Laboratory information management systems
- Laboratory techniques and procedures
- Scientific photography

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

Traineeship
This course is also available as a traineeship.

Career opportunities
Employment may be found as a laboratory technician, technical officer or similar support staff to scientists in laboratory-related workplaces in manufacturing, research and education.

Certificate IV in Laboratory Techniques

Campus: Hawthorn, Wantirna
Duration: One year full-time or equivalent part-time
Prerequisites: Satisfactory completion of Year 12 or equivalent, or mature age with at least basic capability in literacy and numeracy
Application: VTAC (March start) or direct (all intakes)
VTAC code: Hawthorn: 3400277494 (FTDP)
Wantirna: 3401077494 (FTDP)

This course provides scientific and technical education with a strong emphasis on the development of practical skills for the biosciences workplace. Students become competent in meeting the technological and administrative demands of laboratory work.

Major study areas
- Chemical and biological testing
- Data collection and processing
- Histology and tissue culture
- Industry regulation
- Laboratory safety and organisation
- Laboratory techniques and procedures
- Microbiological and environmental testing

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

Traineeship
This course and a Certificate III in Laboratory Skills are also available as a traineeship.

Career opportunities
Employment may be found as a laboratory technician, technical assistant or similar support staff to scientists in laboratory-related workplaces in manufacturing, research, education and testing. Alternatively, graduates may pursue further studies in laboratory technology.
**Physics**

*Bachelor of Science (Physics)*

**Campus:** Hawthorn

**Duration:** Three years full-time or equivalent part-time

**VCE Prerequisites:** Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English; a study score of at least 25 in Mathematical Methods (CAS) and a study score of at least 25 in one of Biology, Chemistry, Physics or Specialist Mathematics

**Subject bonus:** Satisfactory completion in physical education or science (any) is considered

**Application:** VTAC (Semester 1) or direct (all intakes)

**VTAC code:** 3400210211 (CSP), 3400210213 (IFP)

2014 Round 1 Clearly-in ATAR: 65.00

Physics is at the core of our intellectual understanding of all aspects of nature and is the foundation of many sciences. Physics is the study of matter, energy and the interaction between them, and provides a fundamental understanding of how our natural and technologically-driven world works.

This course provides students with fundamental knowledge of classical and modern physics, astrophysics and the physics of nanoscience and technology, as well as providing hands-on experience in experimental physics.

**Major study areas**

- Applied physics
- Astronomy
- Micro-photonics
- Nanoscience
- Optics
- Quantum science
- Theoretical physics

**Career opportunities**

Graduates may find employment in a range of areas, including defence, education, financial modelling and forecasting, journalism, meteorology and climate change, mining, policy advising, research and development, software engineering and technology commercialisation.

**Professional recognition**

Graduates may be eligible for membership of the Australian Institute of Physics.

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**Psychology**

Students who wish to study psychology or psychophysiology may do so as part of the Bachelor of Science.

Also see Psychology: Bachelor of Arts (Psychology), Bachelor of Arts (Psychology and Forensic Science), Bachelor of Arts (Psychology and Psychology), Bachelor of Science (Psychology), Bachelor of Science (Psychology and Psychophysiology), Bachelor of Social Science (Psychology), Bachelor of Social Science (Psychology and Forensic Science), and Bachelor of Social Science (Psychology and Sport Science).

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**Science**

Also see Arts and Social Sciences: Bachelor of Arts/Bachelor of Science.

*Bachelor of Science*

**Campus:** Hawthorn

**Duration:** Three years full-time or equivalent part-time

**VCE prerequisites:** Units 3 and 4 – a study score of at least 30 in English (EAL) or at least 25 in any other English, and a study score of at least 20 in Mathematics (any)

**Subject bonus:** Satisfactory completion in mathematics (any), physical education, psychology or science (any) is considered

**Application:** VTAC (Semester 1) or direct (all intakes)

**VTAC code:** 3400234371 (CSP), 3400234373 (IFP)

2014 Round 1 Clearly-in ATAR: 65.00

This course provides students with a broad science overview with 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 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 develops the professional quantitative skills needed to undertake mathematical modelling in chemistry, biomolecular science and physics, and to solve scientific problems.
- **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.
- **Biomedical Science:** This major provides 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.

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**Public and environmental health**

See Health Sciences and Community Care: Bachelor of Health Science (Public and Environmental Health).
Bachelor of Science (continued)

Biotechnology: This major combines studies in biology, chemistry, biochemistry and biotechnology. It provides 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.

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.

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 gain an understanding of and develop solutions to environmental issues on small and large scales. They learn skills in analytical, water and environmental chemistry to understand environmental sustainable systems in a scientific context and provide ways to improve them.

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 provides 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.

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.

Psychology and Psychophysiology: This major provides 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.

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 (see Arts and Social Sciences)

Career opportunities
Graduates are 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.

Certificate IV in Science

Campus: Hawthorn, Wantirna
Duration: One year full-time or equivalent part-time
Prerequisites: Basic literacy and numeracy skills
Application: VTAC (March start) or direct (all intakes)
VTAC code: Hawthorn: 3400277024 (FTDP)
Wantirna: 3401077024 (FTDP)

In this course students will gain skills in the areas of mathematics, science, research and communication. These skills help students to undertake further study, fulfil career aspirations or improve employment opportunities.

Major study areas
- Building researching skills
- Investigating science-based learning resources
- Mathematics and its applications
- Physics, biology, chemistry, genetics

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

Career opportunities
Graduates may have improved access to roles in fields such as applied science, aviation, information technology, engineering, nursing, paramedical, radiography/radiology and alternative medicine. Graduates may also be well prepared for further study in higher education or related VET programs.
Pre-apprenticeships and Apprenticeships

Pre-apprenticeships

Building and construction

- Certificate II in Building and Construction (Bricklaying)
- Certificate II in Building and Construction (Carpentry)

Campus: Croydon, Wantirna
Duration: Sixteen weeks full-time
Prerequisites: Satisfactory completion of Year 10 or equivalent, or mature age
Application: Direct

Major study areas
- Hand and power tools
- Small plant and equipment
- Understanding building plans and documents

Career outcome
Graduates may enter an apprenticeship as a bricklayer or carpenter in the building and construction industry, or find entry-level employment in the field.

Electrical

- Certificate II in Electrotechnology Studies (Pre-vocational)

Campus: Croydon, Wantirna
Duration: Ten weeks full-time
Prerequisites: Satisfactory completion of Year 10 or equivalent, or mature age
Application: Direct

This course provides knowledge and employability skills relevant to the electrical trade. Students who successfully complete the course will gain six months’ schooling credit towards the four-year TAFE component of the Certificate III in Electrotechnology Electrician course undertaken by apprentice electricians.

Major study areas
- Dismantling, assembling and fabricating electrotechnology components
- Performing computations
- Providing basic sustainable energy solutions for energy reduction in domestic premises
- Solving problems in multiple-path DC circuits
- Using drawings, diagrams, schedules and manuals
- Using routine equipment/plant/technologies in an electrotechnology environment

Career outcome
Graduates may find employment as an apprentice in the electrical, refrigeration and air-conditioning, security systems, renewable energy, domestic, commercial or industrial industries.

Engineering

- Certificate II in Engineering Studies

Campus: Wantirna
Duration: Ten weeks full-time
Prerequisites: Satisfactory completion of Year 10 or equivalent, or mature age
Application: Direct

Major study areas
- Basic machining skills
- Hand and power tools
- Occupational health and safety
- Producing engineering components
- Producing engineering drawings

Career outcome
Graduates may find entry-level employment in the engineering production and welding industry. Successful completion of this course can provide credit towards an apprenticeship.

Horticulture

- Certificate II in Horticulture

Campus: Wantirna
Duration: Ten weeks full-time
Prerequisites: Satisfactory completion of Year 10 or equivalent, or mature age
Application: Direct

Major study areas
- Occupational health and safety practices
- Planting
- Pruning
- Recognising plants
- Workplace communication

Career outcome
Employment may be found in the horticulture industry in floriculture, landscape, nursery, parks and gardens, or turf.

Traineeship
This course is also available as a traineeship. Visit www.swinburne.edu.au/traineeships for more information.

Plumbing

- Certificate II in Plumbing (Pre-apprenticeship)

Campus: Croydon, Wantirna
Duration: Twelve weeks full-time
Prerequisites: Satisfactory completion of Year 10 or equivalent, or mature age
Application: Direct

Major study areas
- Building structures
- Plumbing fixtures, fittings and appliances
- Plumbing industry induction
- Tubes and pipes in plumbing
- Workplace safety and environmental procedures

Career outcome
Graduates may enter an apprenticeship as a plumber in the building and construction industry.
Apprenticeships

Electrical

Certificate III in Electrotechnology Electrician

Campus: Croydon, Wantirna
Duration: Four years part-time, with licensing requirements
Prerequisites: At least 15 years of age and apprenticed to an employer
Application: Direct

This course is for people who are employed as electrical apprentices. Students complete practical and theory units to develop the necessary skills and knowledge to work at trade level in the electrical industry.

Major study areas
- Applying occupational health and safety practices
- Installing low-voltage electrical apparatus and associated equipment
- Installing wiring and accessories for low-voltage circuits
- Selecting and arranging equipment for general electrical installation
- Solving problems in single- and three-phase low-voltage circuits

Career outcome
On successful completion of this course and Electrical Safe Victoria requirements, graduates may apply for an A class licence. This certificate satisfies the qualification requirements of the A class electrician’s licence.

Electronics and communications

Certificate III in Electronics and Communications

Campus: Hawthorn, workplace
Duration: One year full-time (competency-based completion)
Prerequisites: Employed in the electronics or communications industry
Application: Direct

This course gives students a broad background in electronics, with an emphasis on digital technology, gate array technologies and the application of microcontrollers, communications and analogue electronics. Students learn how to commission, test, evaluate and diagnose faults in electronic systems and associated apparatus.

Major study areas
- Cabling
- Digital electronics
- Electrical technology
- Fabricating electrotechnology components
- Microcontrollers
- Occupational health and safety practices
- Power supplies
- Repairing electrotechnology components

Career outcome
Graduates may find employment as a servicing and maintenance engineer in industries such as mining, telecommunications, transport, entertainment or medical electronics, or a technician position in procurement, datacabling, equipment installation and servicing, sales, manufacturing, quality control, system diagnostics and prototype construction.

Engineering

Certificate III in Engineering – Fabrication Trade

Campus: Wantirna
Duration: Up to three years part-time (competency-based completion)
Prerequisites: At least 15 years of age and apprenticed to an employer
Application: Direct

Major study areas
- Engineering drawing
- Fabrication
- Hand and power tools
- Occupational health and safety
- Sheet metal
- Welding

Career outcome
Employment may be found as a metal tradesperson in industries such as welding, manufacturing and general engineering, in roles such as heavy fabricator, light fabricator or sheetmetal worker.

Certificate III in Engineering – Mechanical Trade

Campus: Wantirna
Duration: Up to three years part-time (competency-based completion)
Prerequisites: At least 15 years of age and apprenticed to an employer
Application: Direct

Major study areas
- Engineering drawing
- Fabrication
- Hand and power tools, and measuring equipment
- Occupational health and safety
- Operating computer-controlled machines
- Performing general machining
- Performing routine sharpening of tools
- Welding

Career outcome
Employment may be found as a metal tradesperson in industries such as manufacturing, maintenance, repairs, jobbing and general engineering.
General construction

- Certificate III in Bricklaying and Blocklaying
- Certificate III in Carpentry

Campus: Croydon
Duration: Up to three years part-time (competency-based completion)
Prerequisites: At least 15 years of age and apprenticed to an employer
Application: Direct

Major study areas
- Demolition
- Drawing
- Frameworks
- Hand and power tools
- Occupational health and safety
- Small plant and equipment

Career outcome
Employment may be found as a bricklayer, carpenter or subcontractor, or in self-employment.

Landscape construction

- Certificate III in Landscape Construction

Campus: Wantirna
Duration: Up to three years part-time
Prerequisites: At least 15 years of age and apprenticed to an employer
Application: Direct

Major study areas
- Concrete/brick/block/stone structures and features
- Drainage systems
- Occupational health and safety
- Paving and retaining wall projects
- Plants and their culture
- Soil profiles

Career outcome
Employment may be found as a landscaper.

Professional recognition
Graduates may be eligible for membership of Landscaping Victoria.

Horticulture

- Certificate III in Parks and Gardens
- Certificate III in Production Nursery

Campus: Wantirna
Duration: Up to three years part-time (competency-based completion)
Prerequisites: At least 15 years of age and apprenticed to an employer
Application: Direct

Major study areas
- Advising on plants and plant products
- Machinery and equipment
- Occupational health and safety
- Propagation
- Recognising plants
- Soil and plant nutrition

Career outcome
Employment may be found in wholesale nursery.

Plumbing

- Certificate III in Plumbing

Campus: Croydon
Duration: Three years part-time
Prerequisites: Satisfactory completion of Year 10 or equivalent, and employed as an apprentice plumber
Application: Direct

Major study areas
- Gas installation
- Hand and power tools
- Occupational health and safety
- Roofing water supply
- Sanitation and drainage
- Scaffolding

Career outcome
This course, combined with on-the-job training, meets the Plumbing Industry Commission’s requirements for application to be registered as a plumber in Victoria.
English Language and Study Skills

Bridging science
See Science: Certificate IV in Science.

English as a second language

Certificate IV in EAL (Further Study)
Campus: Hawthorn
Duration: Twenty weeks full-time
Prerequisites: English is not the first language
Application: Direct
In this course students will develop upper-intermediate to advanced levels of English in listening, speaking, reading and writing. Students undertake electives related to the Australian workplace or further study.

Certificate III in EAL (Access)
Campus: Hawthorn, Wantirna
Duration: Twenty weeks full-time
Prerequisites: English is not the first language
Application: Direct
In this course students will develop intermediate to upper-intermediate levels of English in listening, speaking, reading and writing. Students undertake electives related to the Australian workplace or further study.

Certificate I/II/III in Spoken and Written English
Campus: Croydon, Hawthorn, Wantirna
Duration: Twenty weeks full-time
Prerequisites: English is not the first language
Application: Direct
These courses focus on general language development; oral and written skills from beginner to post-beginner and pre-intermediate levels; and settlement issues. Certificate III has greater focus on further study or work preparation.

General education for adults

Certificate I/II/III in General Education for Adults

Certificate I in General Education for Adults (Introductory)
Campus: Croydon, Wantirna
Duration: Twenty weeks full-time; part-time available
Prerequisites: Applicants may enter at a range of skill levels, but must be able to speak some English
Application: Direct
These courses focus on improving students’ skills in reading, writing, mathematics, oral communication and computer use. There is also a strong emphasis on improving self-confidence, developing further training and vocational pathways, and preparing for employment.

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

Career opportunities
Graduates will be encouraged to pursue employment or, where appropriate, further study and training.

Liberal arts
See Arts and Social Sciences: Certificate IV in Liberal Arts.

Study skills

Course in Tertiary Transition Skills
Campus: Hawthorn, Wantirna, online
Duration: Two weeks full-time or 10 weeks part-time (online only)
Prerequisites: None
Application: Direct
This course assists TAFE and VCE students in making the transition to higher education. It is also for mature-age learners who are returning to study after a long period of absence.
The course will help students become familiar with academic writing; critical analysis; researching; note-taking; understanding the university environment and expectations; establishing independent learning skills; referencing, quoting and paraphrasing without risking plagiarism; group work; delivering presentations; exam preparation; and stress management.

VCAL

Victorian Certificate of Applied Learning – Senior

Victorian Certificate of Applied Learning – Intermediate
Campus: Croydon, Wantirna
Duration: One year full-time
Prerequisites: Senior – Applicants should be 16 to 19 years of age and have completed Year 11 or equivalent, and should have left or be leaving school
Intermediate – Applicants should be 16 to 19 years of age and have completed Year 10 or equivalent, and should have left or be leaving school
Application: Direct
The VCAL program is a senior-school certificate based on vocationally oriented applied-learning principles. The courses may allow students to study other vocational certificates while studying the core VCAL certificate.
The courses may include one of the following TAFE certificates:
- allied health assistance
- bricklaying
- carpentry
- conservation and land management
- desktop publishing
- electrotechnology
- engineering
- horticulture
- integrated technologies
- laboratory skills
- plumbing.
Scholarships
For a list of applicable courses, visit www.swinburne.edu.au/scholarships

Vice-Chancellor’s Scholarship
Application: VTAC (Semester 1 only)
Minimum ATAR: 95.00
Recipients receive $5000 per annum for the normal duration of their chosen course, plus a one-off payment of $2000 towards an international study experience (subject to academic performance and other scholarship conditions).

- Arts and Social Sciences
  VTAC code: 3400234101 (CSP)
- Business
  VTAC code: 3400234031 (CSP)
- Design
  VTAC code: 3400234131 (CSP)
- Engineering
  VTAC code: 3400234531 (CSP)
- Health Sciences
  VTAC code: 3400210081 (CSP)
- Information Technology
  VTAC code: 3400210231 (CSP)
- Science
  VTAC code: 3400210091 (CSP)

Dean’s Scholarship
Application: VTAC (Semester 1 only)
Minimum ATAR: 90.00
Recipients receive $2500 per annum for the normal duration of their chosen course, plus a one-off payment of $2000 towards an international study experience (subject to academic performance and other scholarship conditions).

- Arts and Social Sciences
  VTAC code: 3400234891 (CSP)
- Business
  VTAC code: 3400234781 (CSP)
- Design
  VTAC code: 3400210141 (CSP)
- Engineering
  VTAC code: 3400210031 (CSP)
- Health Sciences
  VTAC code: 3400210071 (CSP)
- Information Technology
  VTAC code: 3400210231 (CSP)
- Science
  VTAC code: 3400210091 (CSP)

George Swinburne Scholarship
Application: VTAC (Semester 1 only); students should complete the VTAC Scholarship Application
Minimum ATAR: 85.00
Recipients receive $1000 per annum for the normal duration of their chosen course, plus a one-off payment of $2000 towards an international study experience (subject to academic performance and other scholarship conditions).
Short courses

Design, media and arts short courses
A wide range of short courses are available in the areas of design, media and arts. These courses can provide students with the skills and techniques to develop their folio and produce creative work at a professional level.
For a list of courses, visit www.swinburne.edu.au/design-media-arts

Trades short courses
Trades short courses are available in the areas of electrical, electronics, engineering, plumbing and renewable energy. These courses can help students prepare for their licensed trade exam or enhance their skill set.
For a list of courses, visit www.swinburne.edu.au/tradesshortcourses