Swinburne Expo
Royal Exhibition Building, Carlton Gardens
Sunday 29 August 2004
Between 10.00am and 4.00pm
Website: www.swinexpo.com
Come to Swinburne Expo and see all that Swinburne has to offer in the one location – the Royal Exhibition Building.

You will be able to talk to our staff and students, and be inspired by our:
- Displays
- Forums
- Information Sessions
- Performances

Swinburne Expo replaces our traditional Open Day. To visit our campuses, register for a campus tour at www.swinburne.edu.au/tours or call 1300 368 777.

The information contained in this publication was correct at the time of going to press, July 2004. Admission requirements apply to 2005 entry and may vary in subsequent years. The University reserves the right to alter or amend the material contained in this Course Guide.

Equality of educational opportunity is Swinburne University of Technology policy.

Published by the Corporate Marketing Department
Swinburne University of Technology
Design and typesetting by Swinburne Press Art Department
Profile photography by Paul Tresize

ISSN 1440-4044

Swinburne University of Technology
Melbourne, Australia

Coursework index
Accounting 26
Air Transportation Management 35
Airport Planning, Operation and Management 35
Applied Business 24
Applied Media 43
Astronomy 25
Aviation Human Factors 36
Business Administration 28
Clinical Psychology 39
Commercial Radio 43
Communication Design 30
Communications 43
Computing 31
Construction Management 36
Counselling Psychology 38
Disaster Management 36
Entrepreneurship and Innovation 27
Executive Administration 27
Family Therapy 39
Health Psychology 39
Housing Management and Policy 40
Human Resource Management 38
Human Services – Counselling 40
Industrial Design 33
Industrial Engineering 36
Information Systems 31
Information Technology 31/32
Integrative Medicine 40
Interior Design 33
International Business 28
Internet Computing 31
Logistics 36
Manufacturing Technology 36
Male Family Violence 40
Marketing 29
Meteorology and Climate 37
Microsystem Technology 37
Mental-Body Medicine 40
Multimedia 42

Multimedia Design 34/42
Network Systems 38
Nutritional and Environmental Medicine 40
Philanthropy and Social Investment 43
Pre and Post-Aboriginal Family Support 40
Professional Practice 29
Project Management 29
Psychological Studies 41
Psychology 41
Quality Management 30
Risk Management 38
Research Methodology 30
Small Business Management 30
Software Engineering 31
Statistics – Health/Social 41
Strategic Forecasting 36
Supply Chain Management 30
Sustainability 25
Technical Communication 44
Writing 44

Consulting Services, Executive and Customised programs
As well as Swinburne’s range of standard accredited postgraduate courses, Swinburne’s Industry Consulting Services (ICS) offers a wide range of non-accredited postgraduate courses and customised postgraduate courses. These range from industry specific training to executive education.

Our range of accredited and non-accredited programs include:
- Management and leadership programs
- Graduate Certificates with pathways to MBAs and other Masters programs

Swinburne’s suite of Graduate Certificates can be customised for delivery into any workplace.

- Customised training
Swinburne delivers customised programs drawing from nationally accredited training packages, thirty industry-specific areas are available, including automotive, business, community services, financial services, media, health, horticulture, IT, local government, retail, telecommunications, and transport and distribution.

- Consulting
By working closely with a client to understand their learning and development needs, Swinburne can provide analysis and recommend solutions to assist organisations with their overall human resources strategies.

ICS understands that businesses can’t afford to have staff off-line for long periods of time. That’s why our programs are usually delivered in the workplace, via a range of flexible delivery options including face-to-face, self-paced workbooks, online with tutor support, workshops, or a blended delivery combining the above.

To have one of our representatives contact you or visit your business to find out how we can meet your training needs:

Phone: (03) 9214 5438
Email: ics@swin.edu.au
Visit: www.swinburne.edu.au/ics
Welcome to Swinburne

In this course guide you will find details about the wealth of opportunities for further study available at Swinburne. The achievement of a Swinburne postgraduate qualification is likely to be important in moving you onto the next stage of your career and life.

The commitment of our students to postgraduate study is taken seriously at Swinburne and, in return, we put great emphasis on ensuring that all our postgraduates are given an experience that maximises their potential. Swinburne postgraduates enjoy infrastructure that ensures that those undertaking our courses are well supported along the way. Flexible learning is as central to our coursework programs as excellence and cutting-edge technology are to our research programs. Flexible learning and teaching assists students to choose the time, place, pace and mode of study that fits with their particular circumstances.

Our Graduate Research School supports all members of our research community providing them with research training and information on research services, schemes and opportunities. As a Swinburne student, you will also have access to a wide range of transport, sporting, computer, library and student welfare facilities at all of our campuses.

Swinburne is extremely committed to creating an inspiring culture of creativity and innovation. All our students are exposed to a learning environment that weaves innovation into our teaching and research, and are encouraged to embrace and apply this spirit in their studies and their work.

Undertaking postgraduate study represents an important step in your life and choosing to study at Swinburne will help you make the most of your potential.

IR Young
Vice-Chancellor and President
Programs by research

Master by Research
Masters students generally undertake their formal and supervised research training over a period of two years full-time or four years part-time. Research can be undertaken at Swinburne or an approved external organisation. Students holding a bachelor’s degree with honours, or other qualifications deemed equivalent, are eligible for admission. A major thesis is the sole form of assessment for this award.

Master by Research degrees include:
- Master of Applied Science (MAppSc)
- Master of Arts (MA)
- Master of Business (MBus)
- Master of Design (MDes)
- Master of Engineering (MEng)
- Master of Information Technology (MInfTech)
- Master of Science (MSc)
- Master of Technology (MTech)

Doctor of Philosophy (PhD)
Students who hold a bachelor’s degree with a first or upper second class honours, or other qualifications deemed equivalent, are eligible for admission. To complete a PhD, students undertake a major piece of original, supervised research work. Research can be undertaken at Swinburne or an approved external organisation. Assessment is based entirely on the examination of a major thesis, generally completed in three years of full-time or six years part-time study.

Professional Doctorate
Swinburne offers postgraduate students the opportunity to undertake a professional doctorate in a number of specialised fields. Unlike a Doctor of Philosophy, students of Professional Doctorates are required to complete both coursework and research components. Professional Doctorates include:
- Professional Doctorate in Business Administration (DBA)
- Professional Doctorate in Clinical Psychology (DPsych)*
- Professional Doctorate in Counselling Psychology (DPsych)

* Subject to accreditation

Programs by coursework

Graduate Certificate
This is usually an entry-level postgraduate qualification for applicants with several years work experience and is an attractive alternative for those without any formal undergraduate qualifications. It is generally undertaken over one semester full-time or two semesters part-time.

Graduate Diploma
Generally a one year full-time or two year part-time course. Applicants must normally have undertaken an undergraduate degree, though not necessarily in the proposed area of study. Applicants without a degree, but with substantial appropriate industry experience, may also be eligible to apply.

Masters
The duration of a masters degree by coursework varies by subject area but is generally from one to two years full-time or equivalent part-time. Applicants must normally have undertaken an undergraduate degree.

Admission with advanced standing
Graduates with good results in a relevant postgraduate course may be eligible to apply for admission with ‘Advanced Standing’. Students receive credits for some or all subjects already studied, thereby reducing the time taken to complete a qualification.
Swinburne offers a large range of postgraduate qualifications from graduate certificates to PhDs. In fact, we have everything you need to develop and further your career.

If you want to upgrade your skills, increase your career opportunities or change career direction, Swinburne has a range of postgraduate programs which keep pace with change and remain firmly linked to the needs of the future.

There are many reasons why you should choose Swinburne for postgraduate studies:

**Strong links with industry**
Swinburne was a pioneer of Industry-Based Learning in Australia, with the first programs offered to undergraduate engineering students in 1963. Over the years the benefits of these strong links have spread to other disciplines in the university, illustrating the importance that Swinburne places on its many contacts with industry. Many postgraduate research and coursework programs also involve close industry interaction. Students undertake supervised project work on real industrial problems under authentic conditions, or work on projects with their own employers.

**Research centres**
Much of Swinburne's well-recognised research is concentrated in specialist centres that are renowned for their industry and institutional links, community service and multidisciplinary approach.

**Nested suite of programs**
Several disciplines offer suites of programs (graduate certificate, graduate diploma and masters) which give students the flexibility of entry and exit points.

**Flexible entry**
Swinburne offers a broad range of graduate certificate programs that are especially attractive to applicants who have several years of industry experience, but no formal undergraduate qualifications. Graduates of these programs have the opportunity to undertake further postgraduate qualifications with the university.

**Part-time classes**
Most of our postgraduate coursework programs can be taken on a part-time basis and many are held in the evening, or on Saturdays, enabling students to combine employment and study.

**Scholarships**
Swinburne offers a range of scholarships to postgraduate students. For further information refer to page 8 in this guide and/or the Swinburne Scholarship Program website: www.swinburne.edu.au/scholarships

---

**Sports engineering PhD student Dan Billing’s research is set to have a profound impact on the way elite athletes are trained. Scientific technology is becoming increasingly important in training and performance, says Billing.**

“With only milliseconds often the difference between athletes who collect first and second place in a race, athletes are constantly striving to perfect their technique. Technology can make the difference between winning and losing.”

As part of his doctoral research, Dan is developing a wearable measurement system to allow athletes to adjust their performance based on racing conditions. The research is a collaboration between the Australian Institute of Sport and the Cooperative Research Centre for microTechnology, of which Swinburne is a member.

Normally data is collected from athletes in a sports laboratory. But a miniature-sensor system means that athletes can potentially have their performance tracked on a daily basis and in the environment in which they train and compete. So far several prototypes have been produced and promising data has been obtained.

The miniature pressure sensors are placed at four positions in the athlete’s shoe: three at various points of the forefoot and one at the heel, representing the parts of the foot that typically bear most of the load during ground contact. Another sensor positioned in the small of the athlete’s back measures acceleration of the body in three dimensions.

Dan says a highlight of his research has been the chance to work at Swinburne’s MiniFab micro-fabrication facility, managed by IRIS.

“MiniFab is an incubator for many start-up technology companies, and as a PhD student it’s very motivating to that type of environment.”

Dan is also gaining a more in-depth knowledge of new venture creation by studying a Graduate Certificate of Entrepreneurship and Innovation at Swinburne’s Australian Graduate School of Entrepreneurship.

This unique project received a boost last year with Dan being awarded one of six $15,000 Victoria Fellowships, which he will use to travel to Greece, Finland, Germany, UK and the US to learn from other sports scientists about the use of miniature sensors in monitoring athletic performance.

“By working alongside the world leaders in sports engineering, I will be able to accelerate my research,” he said.
Swinburne’s campuses

Croydon campus
12–50 Norton Road
Croydon Vic 3136

Swinburne’s original campus at Hawthorn, located seven kilometres east of Melbourne, is home to the university’s central administration, and offers a wide range of undergraduate and postgraduate programs and TAFE courses. It is also the site of many of Swinburne’s research and training centres. At Hawthorn it is possible to do everything from a pre-apprenticeship to a PhD.

Hawthorn campus
John Street
Hawthorn Vic 3122

SITuated at the top end of the Yarra Valley, Swinburne’s Healesville campus offers a wide range of TAFE courses and subjects to meet community needs. There is a special focus on small business, computing and office administration. Courses in natural resources and agriculture are also offered.

Healesville campus
237 Maroondah Highway
Healesville Vic 3777

Croydon offers TAFE diploma and certificate courses in the areas of business and management, computing and information technology, building, and health and human services. The campus is located a short walk from the Croydon station and shopping centre in the foothills of Mt Dandenong.

→ Melways reference: 50 K5
→ Melways reference: 45 E10
→ Melways reference: 270 C12

Swinburne’s international campus

Swinburne Sarawak Institute of Technology
Kuching, East Malaysia
www.swinburne.edu.my/
The Lilydale campus offers short courses, TAFE, undergraduate and postgraduate courses. The tranquil setting and friendly and supportive environment ensures students have a valuable learning experience. The campus and its facilities have grown to include the ‘Student Village’, ‘Mitchell’s View’ training restaurant and a new purpose built high-tech postgraduate research building which will house the Centre for Regional Development, honours and research students.

Prahran campus is home to the renowned National Institute of Design which offers a range of communication, industrial, interior and multimedia design courses at undergraduate and postgraduate level. Prahran also runs TAFE programs in a range of areas such as business, social sciences, visual and performing arts, and hospitality. A large number of short courses are offered in the areas of entertainment, arts, language, fitness, business, computing and information technology.

The Wantirna campus houses the central administration of Swinburne’s TAFE Division. It offers diploma and certificate courses in the areas of art and design, automotive, business and management, computing and information technology, engineering and electronics, horticulture, and health and human services.

→ Melways reference: 38 D6
→ Melways reference: 58 D6
→ Melways reference: 63 J12

Swinburne’s virtual campus tour
www.swinburne.edu.au/campus_tour
Accommodation
Swinburne’s Housing Service provides off-campus options, such as home-away-from-home, private rental/share housing and details on local hostels. There is also on-campus accommodation at our Hawthorn and Lilydale campuses.

Further information
Apartments: (03) 9214 5555 (Hawthorn)
Student Village: (03) 9735 9309 (Lilydale)
Off-campus options:
(03) 9213 6607 (Croydon)
(03) 9214 8882 (Hawthorn)
(03) 9215 7105 (Lilydale)
(03) 9214 6728 (Prahran)
(03) 9210 1905 (Wantirna)
Website: www.swinburne.edu.au/stuserv/housing

Child care
Child care facilities are offered at most Swinburne campuses.

Further information
Hawthorn: (03) 9214 8519
Lilydale: (03) 9735 4691
Prahran: (03) 9521 4653/4643
Website: www.swinburne.edu.au/stuserv/childcare

Financial aid
A financial adviser can assist with financial counselling including budgeting and student loans.

Further information
Hawthorn: (03) 9214 8953
Lilydale: (03) 9215 7105
Prahran: (03) 9214 6734
Website: www.swinburne.edu.au/stuserv/finance

Sport and recreation
Swinburne University Sport and Recreation (SUSR), known as Swinergy, offers a range of services encompassing recreation, health and fitness, sports and clubs across all campuses. From Tai Chi to bungee jumping, yoga to skydiving, you can try all the activities.

The Hawthorn campus offers competitively priced aerobics classes or weight focused programs. As a student or staff member, you can also compete socially or competitively in your favourite sport. You may want to choose to join one of fifteen sporting clubs or even start a club of your own.

Membership to Swinergy is provided free to students who have paid their general service fee when they enrolled. Membership entitles you to subsidised prices on most of Swinergy’s services and facilities.

Further information
Telephone: (03) 9214 8018
Email: swinergy@swin.edu.au
Website: www.swinburne.edu.au/swinergy

Swinburne University Postgraduate Association (SUPA)
All postgraduate students enrolled at Swinburne are considered members of the Swinburne University Postgraduate Association (SUPA), which is part of the Swinburne Student Union. Postgraduate representation and SUPA’s activities are coordinated by an executive committee of postgraduate students, which is elected annually by the postgraduate student population.

SUPA’s three core functions are to provide representation, advocacy (both individual and cohort) and activities that enhance the university experience of postgraduate students. In order to do this effectively, SUPA needs ideas, enthusiasm and involvement from postgraduate students.

Further information
Telephone (03) 9214 5395
Email: sskinner@swin.edu.au
Admissions and Fees

Application

Postgraduate programs by coursework
Application should be made directly to Swinburne on the official application form in the centrefold of this publication or you can download the application form at: www.swinburne.edu.au/postgrad

Postgraduate programs by research
Applicants should contact the school in which they wish to undertake their research, to discuss whether supervision and facilities are available for their proposed research topic. Application forms can be obtained either from the relevant school or from the:
Swinburne Graduate Research School
Telephone: (03) 9214 5412
Website: www.swinburne.edu.au/research

International students
Swinburne welcomes international students into our postgraduate programs. There is a separate course guide for international students, which contains an application form, admission advice and information on tuition fees. To obtain a copy please contact the International Student Unit on (03) 9214 8647, or if calling from outside Australia:
Telephone: +61 3 9214 8712 or +61 3 9214 8647
Email: isuenq@swin.edu.au
Website: www.swinburne.edu.au/isu

Applicants intending to undertake a postgraduate research program have their application forwarded to the relevant school or institute. Applicants will be required to fill out an Application for Research Higher Degrees Candidature form, which is separate to the form provided by the International Student Unit. Applicants are encouraged to make direct contact with the school or institute where they wish to undertake their research to discuss whether supervision and facilities are available for their proposed research topic. Applications for postgraduate programs by research can be made at any time of the year. Application forms can be obtained either from the relevant school or from the:
Swinburne Graduate Research School
Telephone: (03) 9214 5224
Website: www.swinburne.edu.au/research

Fees for Australian citizens and permanent residents

FEE-HELP
FEE-HELP (Higher Education Loan Programme) will replace the Postgraduate Education Loans Scheme (PELS) on 1 January 2005. FEE-HELP is a government funded loan that helps eligible fee paying students pay their tuition fees. FEE-HELP is available to Australian citizens and holders of a permanent humanitarian visa.
For further information visit: www.swinburne.edu.au/postgrad

Postgraduate programs by coursework
The proposed fees for 2005 are listed on pages 45-48.
Prospective students are advised to contact the relevant school for further information on course fee schedules.

PhD and Masters by research
For Masters and PhD programs by research, Swinburne offers a number of fee-exempt places for local Australian students under the Commonwealth-funded Research Training Scheme. There are also a number of Divisional Fee-Waiver places available for both local and international students. All candidates are required to pay a General Service Fee which is currently $296 per annum for a full-time candidate.

Professional Doctorate programs
For information on fees contact the relevant school. See page 24.
Scholarships

Australian Postgraduate Award (APA)
The Department of Education, Science and Training (DEST) offers APAs each year to scholars of exceptional promise in all fields. This scholarship provides a government funded fee-exempt place for a period of two years for a Masters by research degree or three years, for a Doctorate by research degree. Award holders receive an annual stipend and may also be eligible for other allowances. The current value is $18,484 per annum.

Chancellor’s Research Scholarship (CRS)
Swinburne offers two premier scholarships to outstanding students for research leading to the degree of Doctor of Philosophy. Each CRS carries a stipend of $25,000, will have the tuition fees waived, and will involve a period of up to six months residence in a collaborating laboratory at one of the world's leading universities.

Divisional Fee Exemption (DFE) and Lilydale Fee Exemption (LFE)
Swinburne’s Higher Education Division and Swinburne Lilydale offer fee-exempt places for a period of two years for a Masters by research degree or four years for a Doctorate by research degree. Award holders receive an annual stipend and may also be eligible for other allowances. The current value is $18,484 per annum.

International Postgraduate Research Award (IPRA)
DEST provides Swinburne with a limited number of scholarships that cover tuition fees and health care costs for prospective international students in Doctoral or Masters by Research programs.

Qantas/Kistend Postgraduate Travel Scholarship
This scholarship funds travel to any Qantas Airlines destination. Available to postgraduate research students, it is offered subject to Qantas’ ongoing participation in the scheme.

Swinburne University Postgraduate Research Award (SUPRA)
Swinburne offers research awards to outstanding applicants. Students applying for an APA are automatically considered for a SUPRA. SUPRAs are available for a period of two years for a Masters by research degree or three years, with a possible extension of six months, for a Doctorate by research degree. Award holders receive an annual stipend and may also be eligible for other allowances. The current value is $18,484 per annum.

Applying for scholarships
Application forms for CRS, APAs, SUPRAs and IPRS can be obtained by contacting the Swinburne Graduate Research School, or visiting the website at: www.swin.edu.au/research/schols.htm

Applications close on 31 October each year. All applicants to the PhD, DPsych, DDes, and Masters by Research programs will automatically be considered for a Divisional Fee Waiver and the outcome will be communicated in the Letter of Offer.
Successful postgraduate research flows from a blend of excellent facilities, ample resources, whole-hearted support and committed supervision. As one of Victoria’s oldest and most energetic educational institutions, Swinburne University of Technology offers this blend.

Swinburne provides a framework for students to work closely with industry and the wider community. The University’s major research centres offer programs that target industry-specific problems and the needs and demands of society. By maintaining and creating links with local and international industries, research institutions, government and community services, Swinburne students are given a head start in their professional growth and the likelihood of future success.

While Swinburne offers a variety of disciplines in which students can undertake specialist research, recent research developments have focused on some of the world’s most exciting and relevant areas of technological advancement. These include: advanced laser technologies, with major initiatives in the areas of femtosecond laser spectroscopy, excimer laser micromachining and micro-photonics; astrophysics, one of the world’s most stimulating fields of activity; and biotechnology, an area which builds on the strengths of the University’s recent achievements.

So, whatever your reason for undertaking postgraduate research – to continue study in a particular area of interest, to establish a career in university research and teaching, industry research and development, or to gain additional skills to enter the increasingly competitive workforce – Swinburne offers you the resources, facilities, support and supervision to be truly inspired.

Kerry Pratt
Pro Vice-Chancellor (Research)
Swinburne has a strong research culture which concentrates on collaborative and applied research for which we have achieved national and international recognition.

Our relatively small size and collegiate atmosphere enhances the ability of our research to provide responsive, quality outcomes to the industries with which we work closely. This is reflected by the willingness of large and small companies to support Swinburne researchers.

Research is conducted in a range of disciplines reflecting the industry focus of the University. In addition, Swinburne has particular research strengths in:

### Advanced Computing and Modelling

The advanced computing and modelling research activities within Swinburne are spread over several centres. Key resources include the supercomputer cluster and virtual reality theatrette.

Major research activities include:
- Self-organisation in biological and chemical systems.
- Modelling of biological predator-prey interactions.
- The study of fundamental ways that atoms and molecules interact.
- Modelling of heart and blood flow systems.
- Human brain function modelling.
- Modelling the effects of tides and the spreading of oil slicks.
- Discrete event modelling of industrial processes.
- Computer simulations of sport games.
- Possible effects of mobile phones and power lines on living tissue.
- Development of improved software testing methods.
- High throughput secure Internet transactions.
- Technologies for Internet computing and electronic commerce.
- Algorithms for modelling complex data sets.
- Optimisation of complex processes.
- Analytical mathematical modelling techniques.
- The origin and evolution of galaxies and neutron stars.
- Molecular simulation.
- Software engineering.

Associated areas:
- Centre for Astrophysics and Supercomputing
- Centre for Component Software and Enterprise Systems
- Centre for Intelligent Agents and Multi-Agent Systems
- Centre for Intelligent Systems and Complex Processes
- Centre for Internet Computing and E-Commerce
- Centre for Mathematical Modelling
- Centre for Molecular Simulation
- Centre for Software Testing

**Key contact:** Professor Myles Harding
Telephone: (03) 9214 8270
Email: myles.harding@swin.edu.au
Advanced Industrial Technologies

Research in the area of intelligent manufacturing systems and materials has been undertaken at Swinburne for more than fifteen years. Although engineering based, the research is often multidisciplinary and spans a number of the University’s units.

Advanced industrial technologies is a broad-ranging title covering a range of engineering technologies related to improving the productivity of industry through the application of computer-based solutions. Typically, research can include diverse areas such as automation, control, non-contact inspection eg. using vision systems, computer-aided engineering and computer modelling, enterprise management systems, rapid prototyping, material coatings, robotics, and water jet cutting.

The University is also an active partner in five Cooperative Research Centres (CRCs), through which it undertakes research in intelligent manufacturing and materials. These are the CRCs for:
- Intelligent Manufacturing Systems and Technologies (IMS&T)
- MicroTechnology
- Cast Metals Manufacture
- Welded Structures
- Wood Products

Overall, Swinburne can justifiably claim to have Australia’s largest research and research training concentration in the field of intelligent manufacturing and materials.

Associated areas:
- Industrial Research Institute Swinburne (IRIS)
- School of Engineering and Science

Key contact: Professor Tom Spurling
Telephone: (03) 9214 5659
Email: tspurling@swin.edu.au

Astrophysics

The Centre for Astrophysics and Supercomputing operates the Swinburne Supercomputer Facility – in excess of 200 distributed cpus – one the world’s most powerful supercomputers dedicated to the fields of astronomy and astrophysics. The Centre is home to Australia’s largest computational astrophysics program, and its observers are amongst the most active users of the Hubble Space Telescope, the Parkes 64-m radio telescope, and the Gemini and Keck optical telescopes (the largest in the world). State-of-the-art visualisation capability is provided by a virtual reality theatrette.

Major research activities include:
- Pulsar searching and timing.
- Globular cluster origins.
- Disks and jets around stars.
- The formation and evolution of galaxies.
- Cosmology and the formation of the Universe.
- Active Galactic Nuclei and high-energy astrophysics.

Associated area:
- Centre for Astrophysics and Supercomputing

Key contact: Professor Matthew Bailes
Telephone: (03) 9214 8782
Email: mbailes@swin.edu.au
Biotechnology and Bioengineering

Biotechnology is a set of powerful tools that employ living organisms (or parts of organisms) to make or modify products, improve plants or animals, or develop microorganisms for specific uses. Bioengineering applies physical sciences and engineering principles to the study of biological processes, human behaviour and health. Some examples of areas that rely heavily on these two powerful technologies include water quality and treatment, biostatistics and bioinformatics, enzyme technologies, bioremediation, food processing, development of biomolecular devices, and cell engineering.

Specific areas of research include:
- Bioremediation of plastic films.
- Assessment of the surface and colloid science properties of biological colloids.
- Extraction of bioactive compounds from natural sources (plants and fungi).
- Chemical biocatalysis.
- Improvement of water quality by using biocolloids as adsorbents of heavy metals.
- Development of biomolecular static and dynamic devices.
- Analysis of genetic variation of rotavirus isolates.
- Cellular engineering on ordered artificial structures.
- Biostatistics and bioinformatics.
- Enzymatic de-inking of recycled paper.
- Development of novel drug-delivery systems.

Associated areas:
- Environment and Biotechnology Centre
- Industrial Research Institute Swinburne (IRIS)
- School of Biophysical Sciences and Electrical Engineering
- School of Engineering and Science

Key contact: Associate Professor Russell Crawford
Telephone: (03) 9214 8573
Email: rcrawford@swin.edu.au

Brain Function and Cognition

Human brain function and cognition, commonly termed cognitive neuroscience, constitutes a key area of research activity in the University.

Specific areas of research include:
- Biological basis of human intelligence.
- Computer modelling of brain function.
- Functional brain imaging studies of face perception and non-verbal communication.
- Functional brain imaging studies of attention, memory and visual imagery.
- Functional brain imaging studies of Attention Deficit Hyperactivity Disorder.
- Functional brain imaging studies of schizophrenia and Alzheimer’s dementia.
- Neurobiological effects of electromagnetic fields.
- Neurobiology of learning disorders with particular reference to dyslexia.
- Neuroscience of visual processing, visual attention and conscious awareness.
- Neuroscience of cross-modal attention.
- Psychopharmacology of anxiety and mood disorders.
- Psychopharmacology of cognition and disorders of cognition.
- Psychopharmacology of drugs of abuse.
- Sensory neuroscience with particular reference to taste and smell.

Associated areas:
- Brain Sciences Institute
- School of Biophysical Sciences and Electrical Engineering

Key contact: Associate Professor David Crewther
Telephone: (03) 9214 5877
Email: dcrewther@bsi.swin.edu.au
Entrepreneurship

Swinburne pioneered the teaching of entrepreneurship, at a graduate level, in Australia in the mid-1980s and since then has played an active part in related research areas.

Major research activities include:
■ The management of deliberate creativity and innovation activities in organisations.
■ The effective commercialisation of innovation.
■ The process of new-venture creation, its organisation and management.
■ The financing of new ventures and the related means of exploiting intellectual property, including angel finance and formal and informal venture capital.
■ The study of entrepreneurial business planning and its application to the analysis and solution of a diverse range of managerial and social problems.
■ Understanding the nature, mechanism and utility of rapid economic growth and the policy framework in which it can take place.
■ Understanding and implementing entrepreneurship in large organisations (corporate entrepreneurship or intrapreneurship).
■ The study of social entrepreneurship including new not-for-profit ventures and the renewal of mature third-sector enterprises.
■ Research into the effective teaching of entrepreneurship and the development of ethical, professional entrepreneurs.

Associated areas:
■ Australian Graduate School of Entrepreneurship (AGSE)
■ Institute for Social Research (ISR)
■ Industrial Research Institute Swinburne (IRIS)
■ School of Business
■ School of Social and Behavioural Sciences

Key contact: Professor Adolph Hanich
Telephone: (03) 9214 8146
Email: ahanich@swin.edu.au

New Communications Technologies

New Communications Technologies is an area of research excellence at Swinburne that is characterised as follows:

…the study of how new information and communications technologies are put to use by users, communities, organisations, and societies in a way that creates new intersections of technology, content and use.

Research activity is concentrated in the following areas:
■ Convergent Communications – the political economy and implications for users of the merging of information technology, telecommunications, and media.
■ Convergent Technologies – the blending of telecommunications, networking, computing, and multimedia technologies providing seamless and mobile access to global networks.
■ Human-Computer Interaction – the study of the perceptual and cognitive factors that underlie human interaction with computing and communications devices.
■ Internet Computing and eCommerce – the study of how collaboration is developed and supported in online businesses and communications.
■ Affective Human-Computer Interaction – the study of the role of aesthetics and emotion in people’s interaction with web-based and multimedia technologies in work contexts.
■ Internet and Society – social and behavioural analysis related to the ‘take-up’ of internet products and services.

A flagship activity for New Communications Technologies at Swinburne is its membership of the Cooperative Research Centre for Smart Internet Technologies.

A key resource of New Communications Technologies is the SCHIL Usability Laboratory, a state-of-the-art observational facility in which human interaction, with a wide range of information and communications technology-based systems, can be studied under controlled conditions.

Associated areas:
■ Centre for Advanced Internet Architectures
■ Centre for Internet Computing and eCommerce
■ Information Technology Innovation Group
■ National Institute of Design
■ School of Social and Behavioural Sciences
■ Swinburne Computer Human Interaction Laboratory (SCHIL)

Key contact: Professor Trevor Barr
Telephone: (03) 9214 8106
Email: tbarr@swin.edu.au
Optics and Applied Laser Technology

In the rapidly emerging field of photonics and applied laser technology, four major research centres have been created under the umbrella of the purpose-built Swinburne Optics and Laser Laboratories (SOLL). The centres (listed below) have a wide range of world-class, state-of-the-art laser research facilities. The Centre for Atom Optics and Ultrafast Spectroscopy and Centre for Micro-Photonics are major parts of Australian Research Council Centres of Excellence in their field. Research areas cover a broad spectrum ranging from industrial applications of lasers to laser-based technologies of the future and laser studies of atoms and molecules at the most fundamental level.

Major research activities include:

- Studies of ultrafast processes in atoms and molecules on femtosecond timescales.
- Atom optics experiments, which exploit the wave-like behaviour of ultracold atoms.
- Studies of ultracold molecules.
- Quantum information.
- Fibre optic sensors for medical technology and engineering.
- Scanning laser microscopy for industrial and medical imaging.
- Novel rare-earth-doped glasses for laser applications.
- Multi-photon micro-spectroscopy for early cancer detection.
- Compact 3D optical data storage with photorefractive polymers.
- Near-field scanning imaging based on optical trapping.
- Laser tweezers for single molecule detection.
- Excimer-laser microfabrication of sensors and integrated systems such as medical implants, micromotors, micropumps and optical network components.
- Precision laser machining such as laser machining, laser welding and laser cutting.

Associated areas:

- Centre for Atom Optics and Ultrafast Spectroscopy (CAOUS)
- Centre for Imaging and Applied Optics (CIAO)
- Centre for Micro-Photonics (CMP)
- Industrial Research Institute Swinburne (IRIS)

Key contact: Professor Peter Hannaford
Telephone: (03) 9214 5164
Email: phannaford@swin.edu.au

Social Sustainability and Well-being

Research in social sustainability seeks to improve the well-being and social integration of individuals, organisations and societies. Social sustainability and well-being have become key problems in recent times as a result of the sweeping economic and political changes associated with globalisation and privatised welfare delivery.

Major research activities include:

- Social policy – by researching government initiatives that try to better reflect the wishes of citizens, and which are grounded in modern theories of citizenship. Specific research includes issues around citizenship in relation to homelessness, young people and refugees. A further research theme is the role and potential of philanthropy and social investment.

- Housing and urban studies – by exploring the effects of public policy responses to housing and urban issues such as housing assistance for low income households, urban renewal and regeneration, public-private partnerships and community building. Also significant has been research into housing market processes, and the effect of planning and other policies on neighbourhood identity and stability.

- Individual health – by conducting research into stress, coping, post-traumatic growth and social identity, with an emphasis on contributors to both risk and resilience in physical and mental health domains. The role of culture, social norms and social conditions in shaping individuals’ beliefs about health and illness is also being examined.

Associated areas:

- Institute for Social Research (ISR)
- School of Social and Behavioural Sciences

Key contact: Associate Professor David Hayward
Telephone: (03) 9214 8070
Email: dhayward@swin.edu.au
Research activities

Astrophysics

MSc/PhD
Centre for Astrophysics and Supercomputing
- Observational and theoretical astrophysics.
- Supercomputer simulations.

Research topics include the study of:
- Cosmology and the formation of the Universe.
- The formation and evolution of galaxies.
- Active Galactic Nuclei and high-energy astrophysics.
- Globular cluster origins.
- Disks and jets around stars.
- Pulsar searching and timing.

Further information
Director: Professor Matthew Bailes
Telephone: (03) 9214 8782
Email: mbailes@swin.edu.au
Website: www.swinburne.edu.au/astronomy

Business

MBus/PhD
Research activities are concentrated in the following disciplines. Examples of recent research are:

Accounting
- The use of company funds to promote re-election of directors.
- Corporate governance disclosures.
- Triple bottom line reporting and the entrepreneurial organisation.
- Accounting, marketing and performance management.

Economics
- An evaluation of tight monetary policy as a corrective measure.
- Taxation policy as it affects industry and technology.
- The Australian derivatives regulatory framework.
- Should broadband be part of universal service obligations?

Human Resource Management/Organisation Behaviour
- The flexible workforce in the knowledge economy.
- The motivation for self-directed e-learning.
- The role and impact of Corporate Jesters.
- The level of narcissism in emergency service organisations.

Law
- International business law.
- International environmental law.
- Marketing law.
- Intellectual property law.
- Contract law.
- eCommerce law.

Marketing and Languages
- A study of improvisation during the start-up phase of micro-businesses.
- Banking channels: Online and bank branch.
- Goods and services differences in television advertising: An Australian replication.
- Baby boomer housing research study.
- The PR area and the strategic application to the ethical management of complex organisations.
- Cross-cultural sports marketing strategies and planning.
- Use of intelligent agents in Modelling Energy Sectors.
- Mixed mode modelling in change management.
- Research activity management using mixed mode modelling.
- Three Australian innovations in language education for business purposes.
- From assimilation to ethnic business – The emergence of multiculturalism in Australia.
- Research into the ceramic tile industry in Australia.

Further information
Deputy Head (Research):
Professor Miles Nicholls
School of Business
Telephone: (03) 9214 8434
Email: mnicholls@swin.edu.au
Website: www.swinburne.edu.au/business
Six months in the wilds of Peru’s Amazon gave Biotechnology PhD student Jacqui McRae a greater appreciation of indigenous cultures and their contribution to medicine.

“The trip was such an eye-opener, before then I had spent two years in the workforce and thought I would remain working in analytical chemistry, but gaining that type of experience really broadened my perspective.”

Jacqui’s voluntary trip to Peru formed part of her unique research project that is promising to shed new light on antibacterial properties found in traditional indigenous plants. She approached Swinburne directly after researching “every university in Melbourne”. Jacqui chose Swinburne’s Environment and Biotechnology Centre.

“I really wanted to further explore this area, and Swinburne gave me the support and independence to do so. This research has great potential for uncovering new pharmaceutical compounds in these plants. Since new diseases including infections from antibiotic-resistant pathogens are always developing, the search for novel pharmaceutical compounds is ongoing.”

Jacqui’s preliminary research has already yielded promising results. Some plants were highly active against the antibiotic-resistant Golden Staph, a particular concern in hospitals. An important next stage into this research is the isolation and identification of the active compounds in these plants.

“It is both rewarding and exciting to take known medicinal plants and not only prove that they do have the capacity to heal, but also that they could potentially transform modern medicine.”

Jacqui is currently conducting further research using laboratories at Swinburne and CSIRO, who funded part of her PhD scholarship at Swinburne.
Civil Engineering and Building

MEng/PhD

Major research activities include:

Geotechnical Engineering
- Evaluation of road performance using laser profilometers.
- Modelling deterioration of pavements.
- Stabilisation of movements of expansive soils.
- Modelling the effect of climate change on the behaviour of light structures on expansive soils.
- Rehabilitation of light structures damaged by movements of expansive soils.
- Utilisation of industrial waste for earth brick manufacture.
- Hydraulic engineering.
- Litter separation in urban stormwater systems.
- Urban drainage.
- Silt traps.

Infrastructure Asset Performance
- Assessment of road roughness by truck driver perception.
- Evaluation of road performance using laser profilometers.
- Modelling deterioration of lightly loaded pavements.
- The effect of whole body vibrations in heavy vehicles on the task performance of drivers.
- Modelling the onset of breakage events in pipes in water supply systems.
- Turbidity models for city water supplies.
- Clean water supply in court bowl distribution systems.
- The effectiveness of small wetlands in the treatment of run-off water.
- Modelling breakages of pipes.
- Landfill behaviour and decomposition modelling.
- Acoustic sound barriers.
- Methods of utilising waste products in new products.

Structural Engineering
- Smart buildings and sustainability.
- Assessment of vibrations in long span floors due to human excitation.
- Effect of blast vibrations from mining activities on residential structures.
- Response of non-structural components in buildings due to shock and lateral loading.
- Environmental loads on residential structures.
- Wave loading and structure interaction.

Water Quality and Use
- Turbidity models for city water supplies.
- Reduction of turbidity in the water supply delivered by court bowl distribution systems.
- Characteristics of particles in water supply.
- The effect of particles on the removal of microbes in water purification.
- Grey water utilisation in dense urban developments.
- Particles and water supply.
- Energy-efficient coding of structures.
- New methods of utilising waste.

Further information
School of Engineering and Science
Telephone: (03) 9214 8372
Email: engsci@swin.edu.au

Design

MDes/DDes/PhD

The National Institute for Design Research is strongly committed to researching design as a unique form of human activity. Design research in the Institute is currently focussed on:

- Cooperative Research Centre (CRC) in Wood Innovations.
  This government-funded project brings together diverse research expertise in the fields of industrial design, microwave electronics, material science, wood science, timber engineering, surface engineering, component manufacturing and furniture design.
- The technology/design interface, with particular reference to communications media.

Further information
National Institute for Design Research
Telephone: (03) 9214 6421
Email: nsdenquiry@swin.edu.au

Electrical Engineering

MEng/PhD

Centre for Advanced Internet Architectures (CAIA)

General research focus:
- Broadband IP access architectures.
- IP network resilience and security.
- IP mobility.

Particular emphasis:
- Internet performance analysis.
- Broadband IP access technologies.
- IP routing.
- Service quality.
- IP network resilience.
- IP mobility protocols.

Further information
Director: Associate Professor Grenville Armitage
Telephone: (03) 9214 8373
Email: garmitage@swin.edu.au
Website: http://caia.swin.edu.au

Entrepreneurship and Innovation

DBA/PhD

Existing research projects are organised around related streams:

- Commercialising research.
- Innovation for business growth.
- Innovation policy.
- Venture capital.

All research is of an interdisciplinary nature with the major focus on research identified as relevant to business and industry growth or strategic development.

Further information
Australian Graduate School of Entrepreneurship (AGSE)
Telephone: (03) 9214 5855
Email: agse@swin.edu.au
Website: www.swinburne.edu.au/agse
**Information Technology**

**MAppSc/PhD**

Research themes are:
- Service Oriented Computing
- Software System Engineering
- Intelligent Systems
- Computational Sciences

Research groups include:

- **Component Software and Enterprise Systems**
  - Component and object technologies.
  - Software and system architectures.
  - Software security.
  - Software performance.
  - System integration and evolution.
  - Web/grid/agent service description and compositional analysis.
  - Software engineering processes and methodologies.
  - Requirements engineering.
  - Software and system engineering tools.

- **Human-Computer Interaction**
  - User-interface design and advanced user interfaces.
  - Usability engineering methods and tools.
  - Information and organisations.

- **Information Technology Innovation**
  - Mobile computing technologies.
  - Pen-based computing devices.
  - World Wide Web and Internet applications.
  - Multimedia development.

- **Intelligent Agents and Multi-agent Systems**
  - Agent negotiations and collective decision-making.
  - Distributed learning and adaptation in MAS.
  - Dynamic interactions and organisational mechanisms.
  - Applications in virtual enterprises, service-oriented computing and autonomic distributed systems.

- **Intelligent Systems and Complex Processes**
  - Artificial neural networks, especially new advanced architectures.
  - Evolutionary systems, especially advanced chromosome design and forms of species interaction.
  - Collective intelligence and dynamical systems techniques, especially those using metaheuristics.
  - Analyse, modelling and optimisation of a variety of complex processes.

**Internet Computing and E-Commerce**
- Internet Computing and E-Business environments.
- Teamwork, workflow and software development on the Web.
- Computer-supported cooperative work (CSCW)/Groupware.
- Distributed/Internet/Web/P2P/service-oriented computing.
- Software development environments.
- Modelling, simulation and visualisation environments.
- Conceptual modelling.
- Distributed systems tools.

**Molecular Simulation**
- Molecular simulation of fluids.
- Non-equilibrium molecular dynamics.
- Fluid theories.
- Intermolecular potentials.
- Critical phenomena.
- Equations of state for polymers.
- Phase equilibria.
- Molecular spectral simulation.
- Nanotechnology and materials simulations.
- Novel molecular structure identification and computational drug design.
- Computational Science through grid computing.
- Scientific application software development.

**Software Testing**
- Random testing.
- Metamorphic testing.
- Testing of Boolean expressions.
- Test suite reduction.
- Data flow analysis.
- Testing of OO programs.
- Specifications based test case selection strategies.
- Validation of requirements.
- Software maintenance.

Further information
School of Information Technology
Telephone: (03) 9214 5453/8752
Email: info@it.swin.edu.au
Website: www.it.swinburne.edu.au/centres
Integrative Medicine
MA/PhD

Research activities concentrate on disease prevention and health promotion with an emphasis in areas of complementary medicine with particular attention to the following areas:

- Prevention and treatment of:
  - Chronic diseases such as cancer.
  - Cardiovascular Disease.
  - Gastrointestinal Problems.
  - Immunologically-based disorders, including auto-immune disease and allergy.
- Herbal medicine research including herbs and immuno-stimulants.
- Anti-Ageing medicine including dementia.
- HIV/AIDS.
- Diabetes.
- Women’s Health including endometriosis and cervical dysplasia.
- Investigating mechanisms of infection.
- Psychological aspects of pain control, depression and stress reduction.
- Prevention and treatment of neuropsychiatric disorders.
- Improving clinical outcomes in general practice especially in situations where conventional medicine is failing, expensive or inappropriate.
- Exercise and disease, sports medicine.
- Complementary therapies.

Further information
Graduate School of Integrative Medicine
Telephone: (03) 9214 5296
Email: lvitetta@swin.edu.au
Website: www.swinburne.edu.au/gsim

Language and Culture
MA

Research activities are concentrated in the following areas:

Japanese Language and Japanese Studies
- eCommerce and its impact on the traditional distribution system in Japan.
- Cross-cultural Communication between Japanese and Australians – Implications for International Business.
- Commodification of Minority Language and Culture in Japan and the implications for saving endangered languages for indigenous groups.
- Learning Styles for Second Language Acquisition (SLA) of International students from Chinese speaking backgrounds.
- The Use of Web-based Interactive Packages in Second Language Teaching and Learning (SLA) – Developing Autonomous Learners.
- Learning styles in Second Language Acquisition (SLA).
- The Effectiveness of In-Country Work Experience Programs for Students of Japanese Language and International Business.

Italian Language and Culture
- The dialect of Sessa Aurunca.
- Mythos and logos in the works of Cesare Pavese (1908-1950).
- Peer tutoring program for first year students of Italian: an alternative learning approach.
- The role of language and culture for business and education.

Further information
School of Business
Telephone: (03) 9214 5046
Email: busheh@swin.edu.au
Website: www.swinburne.edu.au/business

The lack of research relating to Asian community health and nutrition prompted Rocco Di Vincenzo to enrol in a Doctorate of Philosophy (PhD) at Swinburne’s Graduate School of Integrative Medicine (GSIM).

“As a dietitian, I have always aimed to combine both conventional and complementary approaches to health, with a strong emphasis on evidence-based treatment, which typifies GSIM’s philosophy.”

After working as a community dietitian for eight years, Rocco witnessed first-hand the effects that poor nutrition had on disease, particularly the rising incidence of Type II Diabetes among people from Asian backgrounds.

“Type II diabetes amongst Asian communities has spread to almost epidemic proportions. I began to notice that my own patients’ change in diet and lifestyle upon immigrating to Australia could be triggering their diabetes.”

Rocco hopes his research will reveal whether immigrating to Australia increases Asian migrants’ chances of contracting the disease. Research results will form the basis for a best practice model for dietary intervention of people from Asian backgrounds and potentially, other cultural groups with similar problems.

“For me, the real ‘high’ is the potential of my research to enhance the quality of the lives of thousands of people. But even the lows I’ve experienced have only served to strengthen my resolve and character.”
Manufacturing Systems and Technologies

MEng/PhD/PhD(Ind)

Industrial Research Institute Swinburne (IRIS)

IRIS specialises in applied research and development of industrially relevant technologies and sciences. The institute offers postgraduate research places in the following specialisations:

- Automation and Control.
- CAD/CAM.
- CIM.
- Lasers.
- Industrial Engineering.
- Industrial Information Technologies.
- Microwaves.
- Microtechnologies
- Non-Contract Inspection.
- Polymeric.
- Rapid Prototyping.
- Robotics.

Further information
Industrial Research Institute Swinburne (IRIS)
Telephone: (03) 9214 8600
Email: iris@swin.edu.au
Website: www.swinburne.edu.au/iris

Mathematics and Statistics

MApSc/PhD

Research activities are concentrated in mathematical and statistical modelling and its application to problems in industry, commerce, engineering or science and mathematics education.

Research activities are concentrated in the following areas:

- Computer Simulation and Modelling.
- Educational Research.
- Industrial Modelling.
- Mathematical Analysis and Computation.
- Mathematical Biology.
- Numerical Modelling.
- Social and Health Statistics.
- Statistical Modelling in Sport.

Further information
School of Mathematical Sciences
Telephone: (03) 9214 8484
Email: worke@swin.edu.au
Website: www.swinburne.edu.au/maths

Mechanical and Manufacturing

MEng/PhD

Major research activities include:

- Surface Engineering/Micro-Engineering/Laser Technology

Concerned with materials, surface coatings (particularly with respect to wear resistance) and use of excimer laser technology in micro-engineering. Research topics include:

- Characterisation of plasma-treated surfaces.
- High pressure gas quenching in vacuum heat transfer.
- Wear mechanisms of surface engineering surfaces.
- Filtered cathodic arc deposition.
- Lubricant coating.
- Multi-layer.

Modelling and Simulation

Includes theoretical, computational or experimental diagnostics and physical modelling techniques, applied mechanics, bio-engineering, engineering design, thermo-fluids engineering, physiological fluid dynamics, micro fluid handling and chemically reacting flows. Current research projects include:

- Computational fluid dynamics (CFD) modelling of coal fired furnace.
- Modelling of burner aerodynamics.
- Numerical simulation turbidity spikes in water distribution network.
- Reacting flow in mixing vessels.
- Kinetic theory development for multiphase flow.
- Development of dense particulate flow models.
- Vehicle acoustics and aerodynamics.
- Modelling of Water and Ice jet cutting.
- Roping of particles in duct conveyance.
- Bay hydrodynamics and pollutant dispersion.
- Fire in road tunnels.

Import Engineering

- Energy absorption of structures.
- Impact behaviour of materials and structures.
- Thin-walled structures.
- Crushing of cellular materials.
- High strain rate behaviour of nano composites.
- In-vitro fluid dynamics of ventricular assist device and valves prostheses.
- Computational biomedical engineering.
- Implantable micro-pump system for augmented liver perfusion.
- Characterisation of turbulent swirling flows in an annulus.
Neurosciences

MAppSc/PhD

Brain Sciences Institute

The Institute is engaged in research to understand the relationship between brain activity and behaviour, and has expertise in the following areas of research:

- Brain rhythmic activity.
- Functional brain imaging.
- Working memory.
- Attention.
- Intelligence.
- Psychopharmacology.
- Conscious awareness.

The BSI also hosts a laboratory of the Brain Resource Company which is involved in standardised psychophysiological and psychometric testing of normal aging, ADHD, Alzheimer’s disease, and other neural abnormalities.

Further information

School of Engineering and Science
Telephone: (03) 9214 8372
Email: engsci@swin.edu.au

Swinburne Centre for Neuropsychology

This Centre has specialised facilities and research programs in the area of biological psychology (psychopharmacology and neuropsychology), trauma, clinical and forensic psychology, herbal and illicit drug trials and psychological assessment.

- Neurochemistry of intelligence and cognitive functioning.
- Biological basis of personality, intelligence and emotional intelligence.
- Neuropsychological assessment of clinical and forensic disorders (Depression, anxiety, OCD, PTSD, adult and juvenile sex offenders).
- Understanding trauma.
- Stress in the workplace (assessment and interventions).
- Psychopharmacology and clinical drug trials using herbal compounds.
- Understanding the relationship between Emotional Intelligence and workplace behaviours.
- Psychological Assessment (development of psychological tests).
- Clinical trials using illicit substances.
- Relationship between cannabis, alcohol, amphetamines, ecstasy and other illicit substances on driving and police enforcement.
- Basic and applied brain imaging and psychophysiology.

Sensory Neuroscience Laboratory (SNL)

Major research activities into the neurophysiology and psychophysiology of sensation, perception, attention and fatigue, in the areas of smell, taste, vision, somatosensory and performance, including:

- Development and modification of olfactory, taste and texture delivery systems.
- Correlation of subjective and objective measures of flavour and texture responses.
- Effects of attention and fatigue on human performance e.g. driving.
- Eye movement performance in sport, health and disease.
- Virtual reality imaging in sports training.
- Effects of whole body vibration on human performance.

Further information

Director: Dr John Patterson
Telephone: (03) 9214 8862
Email: jkpatterson@swin.edu.au
Website: www.swinburne.edu.au/bioscieleceng/SNL

Dianne Anderson is researching how children’s brains function when using their memory to learn facts. She plans to earn a PhD with her research, which she is completing at Swinburne’s Brain Sciences Institute.

Her interest in children’s memory has developed out of her work as a clinical neuropsychologist at a large Melbourne hospital. She said, “A large part of my work was pediatric neuropsychology and it was getting to the point where I had lots of ideas I wanted to work on in more depth – so I thought I’d do a PhD.”

Dianne is no stranger to research and has assisted with several research projects since gaining her undergraduate degree in psychology and later earning a masters in clinical neuropsychology.

A PhD is a big commitment, not least financially. Dianne has been awarded a three and half year scholarship, which she describes as, “…livable, but only just! I still do a little clinical work but at least it’s related to my research. I guess I’m lucky in that I got a qualification and a profession before coming back to study.”

When asked how research compares to regular work she said, “It’s an enormous luxury in lots of ways. You can read and explore what you want to without immediate deadlines like in normal work. But it’s harder in some ways, you have to be more self-disciplined and focused.”
Philanthropy and Social Investment
MA/PhD
Established in 2001, the Asia-Pacific Centre for Philanthropy and Social Investment is a unique initiative, pioneering the education of the Australian and international community in the practice of philanthropy, grant-making and corporate social investment.

We provide a variety of professional and executive teaching programs to support informed and educated philanthropy, social investment and grant-making as well as providing research and consultancy to individuals, foundations and companies in all aspects of philanthropy and grant-making.

Further information
Director: Dr Michael Liffman
Telephone: (03) 9214 8825
Email: mliffman@swin.edu.au
Website: www.swinburnephilanthropy.net

Photronics
MSc/PhD
Swinburne Optics and Laser Laboratories (SOLL)
SOLL is a modern, purpose-built complex for optics and laser research housing three research centres:

Centre for Microphotonics
- Fibre-optical two-photon fluorescence microscopy.
- Multi-photon micro-spectroscopy for early cancer detection.
- Two-photon fluorescence resonance energy transfer imaging.
- Image reconstruction through tissue-like media.
- Three-dimensional bit data storage in photorefractive polymers.
- Three-dimensional bit data storage in polymer-dispersed liquid crystals.
- Design of a compact optical system for 3DCDs.
- Fabrication of photonic crystals in polymers.

Further information
Director: Professor Min Gu
Telephone: (03) 9214 8776
Email: mgu@swin.edu.au
Website: www.swinburne.edu.au/optics/cmp

Centre for Imaging and Applied Optics
- Fibre optics sensors.
- Development of Bragg Fibre Grating Fibres.
- Novel sensors based on ordered nanoparticle arrays.
- Industrial and medical imaging.
- Industrial and medical optical fibre sensor applications.
- Development of novel rare earth doped glasses for laser applications.

Further information
Director: Dr Alex Mazzolini
Telephone: (03) 9214 8866
Email: amazzolini@swin.edu.au
Website: www.swinburne.edu.au/optics/ciao

Psychology
MA/PhD/DPsych
Research is concentrated in the following areas:
- Coping with adversity.
- Developmental issues.
- Clinical/counselling outcomes.
- Ethical, legal and forensic issues.
- Health and well-being promotion and outcomes.
- Psychology of new technologies.
- Applied social psychology.

Example projects include:
- Nature and predictors of sexual well-being.
- Cross-cultural studies of humour.
- Shift work.
- Fear of computer crime and its relationship to Internet transaction behaviour.
- Psychosocial adaptation after surgery.
- New models of stress and coping.
- Autobiographical memory and post-traumatic stress.
- Fathering style and child development.
- Alcohol dependence.

Further information
Director: Professor Sue Moore
Telephone: (03) 9214 5209
Email: sbsadmin@swin.edu.au
Website: www.swinburne.edu.au/sbs

Centre for Psychiatric Research on Prevention, Adaptation and Therapeutic Interventions (PATH)
The PATH research centre was formed to provide a forum for the development of research on clinical counselling and health psychology. Through its links with external mental health organisations and expanding research activity within the Psychology Centre, PATH is engaged in the establishment and extension of research programs that:
- Deal with clinical issues of prevention of psychological disorders.
- Identify psychological factors involved in adaptation to life problems.
- Evaluate aspects of therapeutic interventions.

Further information
Chair: Dr Glen Bates
Telephone: (03) 9214 8100
Email: gbates@swin.edu.au
Website: www.swinburne.edu.au/sbs/pc
**Centre for Applied Social Psychology and Organisational Research (CASPOR)**

The research activities of this centre are:

- Applied social research which has implications for social change, social justice, improved work productivity and individual well-being.
- Contribution towards progressive and socially responsible policy development in organisational and community settings.
- Provision of research consultancies for public and private sector organisations wishing to understand the impact of structural, social and individual factors on workplace productivity and organisational health.
- Provision of training in social research methods and statistics to both private and public sector organisations.
- Conduct of workshops on stress management, conflict resolution, and effective management for both private and public sector organisations.

**Further information**

Dr Elizabeth Hardie  
Telephone: (03) 9214 5297  
Email: ehardie@swin.edu.au  
Website: www.swin.edu.au/sbs/psychology

**Social Research**

**MA/PhD**

Research activities concentrate on the following themes:

- Cities and housing.
- Citizenship and government.
- Media and communications.
- Philanthropy and social investment.

**Further information**

Institute for Social Research  
Telephone: (03) 9214 8825  
Email: isr@swin.edu.au  
Website: www.sisr.net

**Social Sciences and Arts**

**MA/PhD**

Research activities are concentrated in the following areas:

**Australian Studies**

- Australian political parties.
- Australian populist movements.
- Industrial dispute.
- Models of citizenship in Australia.
- Political biography.
- Trade union history.
- Institutional history.

**Emerging Technologies and Society**

The Australian Centre for Emerging Technologies and Society (ACETS) conducts research into the social dimensions and implications of new technologies. The main areas of research include:

- Public understandings and attitudes towards new technologies.
- New technology entrepreneurs.
- Biotechnology and society.
- Digital cultures.

**Media and Communications**

- Communications policy.
- Cultural convergence.
- New media and new communications environments.
- New writing technologies.
- The political economy of media and telecommunications.
- Issues in electronic media.

**Philosophy and Cultural Inquiry**

- Complexity theory.
- Contemporary European philosophy.
- Environmental philosophy.
- History and philosophy of science.
- Metaphysics.
- Philosophy of social science.
- Political, social and cultural philosophy.

**Politics**

- Australian political history.
- Australian political parties.
- Citizenship in Australia.
- Hong Kong in transition: politics, business and social policy.
- Political biography.
- Political economy of employment.
- Politics of workplace relations.
- Public policy in Australia.
- Sustainability of democratic systems.

**Sociology**

- Comparative sociology.
- Borders, national loyalty and globalisation.
- Ethnicity and migration.
- Environment and population.
- Families, marriage and sexuality.
- Medical sociology and de-institutionalisation.
- Social implications of new technologies.

**Further information**

Associate Professor Michael Gilding  
Telephone: (03) 9214 5209  
Email: sbsadmin@swin.edu.au  
Website: www.swinburne.edu.au/sbs

**Technology Related Business Innovation**

**Mtech/Phd**

We encourage and support significant investigative projects in a field surrounding the application of electronic commerce and the online society more widely. The investigation as applied research may provide a suitable option for improvement of entrepreneurial skills, or further develop a technology supported business proposition. Studies are concentrated in the following centres:

**Centre for eBusiness and Communication**

- Rapid eBusiness applications development.
- Management and regulation of electronic business.
- Multi-modal industry.
- Virtual workplace and virtual organisation.
- Knowledge management.
- Innovation and value proposition analysis.
- eBusiness intermediation and aggregation.
- Business writing and knowledge creation.

**Centre for Electronic Financial Services**

- Financial services transition.
- Electronic payment systems and the future of money.
- Internet banking and electronic wealth management.
- eBanking, eFinance and internet insurance application.
- Security, privacy and regulatory frameworks.
- Changing roles of banks and financial institutions.

**Further information**

Director: Dr Bruce A Calway  
Telephone: (03) 9215 7304  
Email: adminbus@swin.edu.au  
Website: www.ld.swin.edu.au/ebusiness
Professional Doctorates

DBA
Doctor of Business Administration (DBA)
Campus: Hawthorn
Duration: 2.5 yrs FT or 5 yrs PT

Entry requirements: A Master of Business Administration degree from a recognised tertiary institution (or approved equivalent) or at least five years suitable managerial experience in a field related to the candidate’s thesis topic, and a minimum of credit level work in most of the coursework subjects of the MBA (or equivalent).

The Swinburne DBA aims to develop high-calibre executives with managerial and applied research skills by employing three critical integrating lenses on organisations:
- Entrepreneurship: Opportunity-based Management
- Strategy: Achieving Competitive Advantage

Design
Professional Doctorate in Design
Campus: Prahran
Duration: 3 yrs FT or 6 yrs PT

Entry requirements: A masters degree in design or a design-related area from a recognised tertiary institution, plus industry experience. A design portfolio is also required.

This innovative program of advanced study is designed to meet the professional needs of experienced designers in industry and education for advanced skills, experience and credentials. Its focus is on the new emergent electronic media and their creative application within the fields of design. These media have wide application across the range of design professions.

Psychology
Professional Doctorate of Psychology (Clinical Psychology)*
Professional Doctorate of Psychology (Counselling Psychology)
Professional Doctorate of Psychology (Health Psychology)
Campus: Hawthorn
Duration: 4 yrs FT or 8 yrs PT

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) with a major in psychology plus a fourth year (at least at H2A level) approved by the Australian Psychological Society.

This higher degree by research provides the opportunity to develop professional skills in clinical, counselling or health psychology.

*This program will be offered in 2005 subject to accreditation by the University and the Australian Psychological Society.

It was an interest in social psychology that led Julie Fricker to return to university to study psychology after working as a primary school teacher.

Julie studied undergraduate psychology at Swinburne while working full-time, and then dedicated a year to doing her honours.

“I was determined to do well, but I also wanted to enjoy the year, so I made sure I was organised so I had time for social things as well as study,” Julie said.

Julie’s research topic was ‘Sexual satisfaction and relationship satisfaction: the role of love styles and attachment styles’, and it was a theme that she enjoyed exploring so much that when Julie was accepted to do her PhD she chose a similar topic for her thesis.

“I became really interested in the bond between men and women in relationships and my doctoral topic, ‘Predicting infidelity: the role of lovestyles, attachment styles and the investment model’ was a result of that.”

Julie feels that the Professional Doctorate of Psychology in Counselling Psychology provided her with a good balance of theory and practice, and the relationships she has built with her fellow students and lecturers over the years have also been invaluable.

“It has been a very supportive environment here. I didn’t want to go to another university to continue my study; I was happy to stay here,” Julie said.

Julie hopes to eventually build her own practice and continue her work in organisational psychology, but she has not discounted working with children again, possibly in a counselling role.

“Psychology is such a rich area, and I enjoy it immensely. My study has really allowed me to branch out and my life has taken such a different turn because of it.”
Postgraduate Programs by Coursework

: Applied and Industrial Sciences

---

**Astronomy**

Graduate Certificate of Science (Astronomy)
Graduate Diploma of Science (Astronomy)
Master of Science (Astronomy)

Campus: Online

Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1.5 yrs FT or 3 yrs PT

Entry requirements: A degree or diploma from a recognised tertiary institution (or approved equivalent) or relevant experience. Entry to the Graduate Certificate is restricted to residents of Australia and New Zealand.

This program covers the fundamental concepts and ‘big questions’ of modern astronomy, in order to equip students with a good overall understanding and general knowledge about modern astronomy, rather than training as a professional astronomer. The Graduate Certificate provides subjects suitable for members of the general public who wish to obtain an overview of astronomy with the option to continue to more advanced subjects and qualifications.

---

**Sustainability**

Graduate Certificate in Sustainability

Campus: Hawthorn/Online

Duration: 1 yr PT

Entry requirements: A degree or diploma from a recognised tertiary institution (or approved equivalent). Applicants with at least five years relevant work experience may also be eligible.

This course was developed in response to a strong industry demand for staff with skills and knowledge in the field of sustainability. The course addresses the key sustainability challenges in terms of environmental, economic and social issues at a global, national and local level.
Accounting

Graduate Certificate of Accounting
Graduate Diploma of Accounting
Master of Accounting

Campus: Hawthorn

Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1.5 yrs FT or 3 yrs PT, or
2 yrs FT or 4 yrs PT for non-graduate entry.

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) or five years approved work experience. A special entry provision is available for graduates who hold an overseas qualification in accounting, and are seeking provisional membership of the CPA Australia and the ICAA. English language requirements apply.

This program is designed to provide professional education to graduates of non-accounting disciplines, and to those who have approved professional experience but who do not have a formal qualification. Accounting is the language of business, and its skills are relevant to many areas of business including marketing, economic forecasting, finance, and engineering.

Applied Business

Graduate Certificate in Business (Applied Business)

Campus: Hawthorn

Duration: 0.5 yr FT or 1 yr PT

Entry requirements: A degree or diploma from a recognised tertiary institution (or approved equivalent) and at least three years work experience, or five years relevant experience in a responsible position in business or industry.

This course has been designed to meet the needs of mature age students who may wish to broaden the skills already gained in an undergraduate program, or those who want to develop vocational knowledge and skills in a new professional area. The course consists of four subjects including: Marketing, Management Communication, Tools for Quantitative Analysis, and one of Global Trading Issues, Strategic Human Resource Management, or Leadership and Management.

Business Administration

Graduate Certificate of Business Administration
Graduate Diploma of Business Administration
Master of Business Administration (MBA)
Master of Business Administration (MBA(Hons))

Campus: Hawthorn

Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1.5 yrs FT or 3 yrs PT
Honours: 2 yrs FT or 4 yrs PT

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) and at least two years full-time work experience. Applicants who do not hold an appropriate qualification but who have considerable relevant work experience (normally five years or more) may initially be admitted to the Graduate Certificate level.

The Swinburne MBA not only offers the opportunity to acquire contemporary management knowledge and skills, it also provides students with the ability to apply that knowledge in an innovative, creative and entrepreneurial way. The overarching themes of entrepreneurship, innovation and international business address the transitional realities of moving from the old to the new economy in four key areas: Leadership, Strategy, eBusiness, and Finance. A focus in these four key areas is offered through advanced electives and/or an integrating project.
Master of Business (eBusiness and Communication) student Claire Pidoto had her business skills put to the test when she participated in a computer simulated business program in Germany as part of her course.

Claire joined 24 international students at Reutlingen University for two weeks of intensive work to complete the Business Management subject, which was the capstone of the university’s MBA course.

Students worked in groups for eight hours a day for the two weeks and used a computer simulated management program to build a company from scratch and develop it into a profitable organisation.

Although it was hard work Claire said the experience was “brilliant” and had improved her knowledge of international business.

Claire completed a Bachelor of Business majoring in marketing at Swinburne Lilydale followed by an Honours year. As part of her Honours year she developed a CD-ROM designed to provide grade three and four children with an appreciation of Australia’s Indigenous culture. She worked with Indigenous artist, Kay Van Bockel, on the project and focused the CD-ROM’s interactive activities on Kay’s specially created artwork, titled ‘My Land’.

While she was developing the CD-ROM, Claire received a Swinburne travel scholarship for a two-week visit to Arnhem Land where she visited an Aboriginal community to gain a deeper understanding and appreciation of Indigenous cultures.

At the completion of her Honours year Claire was appointed as a project manager at Swinburne’s Centre for eBusiness and Communication where she worked on a project developing a website of tourism operators in the Yarra Valley and on another eBusiness project called the Yarra Valley Dozen marketing a collection of wines from four Yarra Valley wineries.

It was during her work on these projects that Claire’s developed an interest in eBusiness. “I enrolled in a couple of eBusiness subjects and enjoyed them so much that I decided to go on and do my Masters,” she said.
Students who have dropped out of their first course should not despair. Domenic Carosa’s first experience of tertiary education in 1993 lasted just six weeks, yet he went on to complete the Master of Entrepreneurship and Innovation.

After finishing Year 12 he started a commerce degree and at the same time he set up his own business. He soon left university to concentrate on the business, which has grown to become one of Australia’s leading digital media and Internet service providers. His company is now listed on the Australian Stock Exchange.

Although he has been highly successful in developing his business and was a finalist in the Young Australian of the Year, Domenic felt he would benefit from returning to university.

As the Entrepreneurship and Innovation program has been developed for people who intend to start new, innovative businesses or play a leading role in an innovative unit of an established organisation, it suited Domenic’s needs.

He was taught the theoretical and practical skills required to produce a comprehensive business plan that integrates marketing, organisational behaviour and financial planning via a flexible corporate strategy.

For Domenic, completing a Masters part-time involved a lot of hard work. Over the next three years he studied at weekends and after work, but the experience was worth it.

“I really enjoyed meeting like-minded individuals, continually being challenged and learning not only from the teachers but also from my peers,” he said.

“It’s a real network we’ve built up. We support each other in both a business and social sense.”

“The course enabled me to bring together everything I had learnt from running a business, add in new information and give it a structure and discipline that has proved extremely valuable.”

Human Resource Management

Graduate Certificate in Human Resource Management
Graduate Diploma of Business (Human Resource Management)
Master of Business (Human Resource Management)

Campus: Hawthorn

Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1.5 yrs FT or 3 yrs PT

Entry requirements: A degree or diploma from a recognised tertiary institution (or approved equivalent) and at least three years relevant work experience. Applicants who do not hold an appropriate qualification but who have considerable relevant work experience (at least five years) and an appropriate level of responsibility in industry are also eligible to apply.

This program seeks to provide for the ongoing development of HR practitioners in many areas including: organisation behaviour, business strategy and entrepreneurial thinking. Given the current context in which business enterprises operate, all need strategically astute, business outcome focussed, innovative and entrepreneurial HR practitioners who can demonstrate business acumen and deliver outcomes.

International Business

Graduate Certificate of Business (International Business)
Graduate Diploma of Business (International Business)
Master of Business (International Business)

Campus: Hawthorn

Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1.5 yrs FT or 3 yrs PT

Entry requirements: A degree in any discipline other than international business from a recognised tertiary institution (or approved equivalent) followed by a minimum of three years relevant work experience. Applicants who do not hold an appropriate qualification but who have least five years relevant work experience may initially be admitted to the Graduate Certificate level. Applicants with a degree in international business followed by a minimum of three years relevant work experience may be admitted to the Graduate Diploma level.

This course develops the technical, practical, analytical and creative skills to support a successful career in international business.

International business has become another avenue for all organisations to grow and its study is relevant to all industry sectors.
As executive assistant to a senior banker, Laurelle Whiffin is expected to keep up to date with the latest office technology and business practices. Completing a Graduate Certificate in Business (Executive Administration) was an ideal way to do this.

“I completed a certificate in office and secretarial studies in the mid-nineties and have learnt a lot on the job, working in a variety of office roles,” said Laurelle.

However, she decided to continue her studies to gain a tertiary qualification which would stand her in good stead for future promotions.

“It’s a competitive job market out there and I don’t want to be left behind. The work environment is always changing and it’s good to know that I’ll be ready for it.”

At first Laurelle wasn’t sure what course would suit her best so she compared several on the Internet.

The Swinburne graduate certificate matched her requirements because of its choice of electives, from eBusiness to Global Trading to Marketing, which meant she could structure it to her needs.

Laurelle could also gain professional recognition upon completion of the certificate, as graduates are eligible for membership of the Institute of Professional Secretaries and Administrators.

Now she has started the course, Laurelle says that she is really enjoying it.

“At the start when I was given the assignments and course work it all felt a bit overwhelming but I’ve learnt to break the course down to one step at a time and that keeps it manageable.”

“I’ve learnt so much that I can take back to the workplace. My PowerPoint presentations will never be the same again!”
Quality Management

Graduate Certificate in Quality Management
Campus: Hawthorn
Duration: 0.5 yr FT or 1 yr PT

Entry requirements: A degree or diploma from a recognised tertiary institution (or approved equivalent) or completion of the Certificate IV in Quality with some relevant work experience. Applicants who do not hold an appropriate qualification but who have three to five years experience in a senior quality management role are also eligible to apply.

This course enables participants to plan, initiate, control, install and audit QM programs successfully. It is especially designed to incorporate/address both the new ISO9000 in 2000 standards for quality and the criteria for the Australian Quality Awards. The program also develops the core leadership and management competencies required by contemporary quality managers and their organisations. It is applicable to manufacturing, service, private, government and semi-government, small and large organisations.

Research Methodology

Graduate Diploma of Business (Research Methodology)
Campus: Hawthorn
Duration: 1 yr FT or 2 yrs PT

Entry requirements: A degree of an appropriate level from a recognised tertiary institution or approved equivalent.

This course is designed as a bridging course for students with an undergraduate qualification, but without substantial research experience, who wish to enter either a masters by research or doctoral program.

Small Business Management

Graduate Certificate in Business (Small Business Management)
Campus: Hawthorn
Duration: 1 yr PT

Entry requirements: A degree or diploma from a recognised tertiary institution (or approved equivalent) and at least three years work experience. Applicants who do not hold an appropriate qualification but who have five years relevant experience in a responsible position in industry or business are also eligible to apply.

This course has been designed to meet the needs of small business owners, prospective business owners and consultants to small business. It aims to educate participants in the requirements of small business and to enhance their chances of success in their chosen business field.

Strategic Foresight

Graduate Certificate of Science (Strategic Foresight)
Graduate Diploma of Science (Strategic Foresight)
Master of Science (Strategic Foresight)
Campus: Hawthorn

Duration: Graduate Certificate: 1 yr PT
Graduate Diploma: 2 yrs PT
Masters: 3 yrs PT

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) and relevant work experience. Applicants who do not hold an appropriate qualification but who have considerable relevant work experience may initially be admitted to the Graduate Certificate level.

This program aims to provide a sound theoretical and practical foundation for the successful practice of strategic foresight in many fields. The program will primarily appeal to high achievers who are part way through a career path and who wish to develop proactive approaches to their work, or perhaps to change direction. To these ends, the program provides the necessary grounding in futures studies and foresight work as well as a range of applied implementation options.

Supply Chain Management

Graduate Certificate in Supply Chain Management
Campus: Hawthorn
Duration: 0.5 yr or 1 yr PT

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent). Applicants who do not hold an appropriate qualification but who have three to five years relevant experience in a senior position in industry or service organisation are also eligible to apply.

This course is designed to meet the needs of those whose responsibilities involve the successful implementation and management of supply. Participants will be trained in management of the development, implementation and maintenance of supply chain systems using world proven principles and practices.
Computing and Information Technology

**Computing**

Master of Science (Computing)
Master of Science (Computing) (Honours)

Campus: Hawthorn

Duration: Masters: 1.5 yrs FT or 3 yrs PT
Honours: 2 yrs FT or 4 yrs PT

Entry requirements: A degree or graduate diploma from a recognised tertiary institution (or approved equivalent) in an IT discipline.

This program provides graduates with advanced vocational skills and conceptual knowledge which is complemented with a major industry focused project, or alternatively, a research-based thesis. The program enables students to choose studies in a range of areas however all students are required to undertake a specialisation in an area such as software engineering, internet computing or information systems.

**Information Systems**

Graduate Certificate in Information Systems
Master of Information Systems
Master of Information Systems/Master of Business Administration

Campus: Hawthorn

Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Masters: 3 yrs PT
MIS/MBA: 2 yrs FT or 4 yrs PT

Entry requirements: Entry is available to applicants who have significant relevant business experience, normally at least four years. Applicants who have a degree or graduate diploma in Information Systems may be eligible for exemptions.

This program is designed to examine both the organisational issues and the techniques and technology required for the analysis, design and implementation of business solutions, with an emphasis on electronic commerce. Students may combine this program in a double degree which provides advanced skills and knowledge across the complex areas of both business and information systems.

**Information Technology – Graduate Certificate**

Graduate Certificate in Information Technology

Campus: Hawthorn

Duration: 1 yr PT

Entry requirements: Available to applicants who do not hold an appropriate qualification but who have considerable relevant work experience.

This is a foundation program aimed primarily at professionals who have substantial relevant experience but who lack a formal qualification in the area of information technology. Students who successfully complete the Graduate Certificate may apply for admission to the Graduate Diploma with exemptions.

**Information Technology – Graduate Diploma**

Graduate Diploma in Information Technology

Campus: Hawthorn

Duration: Graduate Diploma: 1 yr FT or 2 yrs PT

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) in a non-IT discipline.

The Graduate Diploma in Information Technology provides a broad foundation of knowledge and skills in areas such as programming, database, data communications, software engineering and web development. Electives allow students to gain depth in programming (Java or VB.NET), information systems or database (Oracle).

The Information Systems Development specialisation provides a broad foundation of knowledge and skills in Information Systems with options of studying the VB.NET programming language, and the Oracle Database Management System or the use of software packages in the context of solving business problems and an examination of the organisational issues relating to the impact, effective use and management of IT.

The Internet Software Development specialisation provides a practical foundation in software development emphasising the object-oriented approach (Java) and the development of web-based systems. This program is available in eLearning mode.
Alston Soares is fanatical about sport and wanted to study in a country that played cricket. Using his contacts and the Internet to research which course was best for him, he decided on the Master of Information Technology.

In India, Alston had completed a Bachelor of Accounting and found he enjoyed learning about accounting systems and software. He wanted to know more about IT and decided that a postgraduate course would open up opportunities and help him define his career objectives.

Studying overseas appealed to Alston and Australia seemed a logical choice. In addition to cricket, Australia has the educational and technological infrastructure he wanted and he had friends here who recommended it.

“I enjoy the way the course is structured. It is tough and very rigorous, but you don’t want to go into the workforce unprepared,” said Alston.

“The Masters is focused on many areas I am interested in like systems development and analysis so it’s been a good preparation for my move into the IT industry."

This is particularly true given the course is accredited at Professional Level (the highest level) towards membership with the Australian Computer Society.

After studying for two years at Swinburne Alston became an Australian resident and plans a career here as a systems analyst. He is positive about his career prospects.

“My accounting systems knowledge combined with my new IT skills puts me in a good position to start my career once I have completed my Masters.”

Having studied in Australia, his cricket may have improved too!
Design

Communication Design
Graduate Certificate of Design (Communication Design)
Graduate Diploma of Design (Communication Design)
Master of Design (Communication Design)
Campus: Prahran
Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 2 yrs FT or 4 yrs PT
Entry requirements: A degree or diploma in design from a recognised tertiary institution (or approved equivalent) and substantial experience in the design industry or design education (normally five years). A portfolio is also required.
Note: Applicants who have completed an Honours year in a design discipline will be eligible for exemption from the first two semesters of the program.
This program offers advanced understanding of how communication design projects, including branding programs and information design, are developed and executed in contemporary design practice. Students gain insight into business strategic planning from the client’s perspective, allowing them to develop an awareness of client’s needs in relation to design services. The program challenges participants to refine design deliverables to an advanced level, and gives guidance in how to present and document design proposals in a creative, professional, and visually effective way.

Industrial Design
Graduate Certificate of Design (Industrial Design)
Graduate Diploma of Design (Industrial Design)
Master of Design (Industrial Design)
Campus: Prahran
Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 2 yrs FT or 4 yrs PT
Entry requirements: A degree or diploma in design from a recognised tertiary institution (or approved equivalent) and substantial experience in the design industry or design education (normally five years). A portfolio is also required.
Note: Applicants who have completed an Honours year in a design discipline will be eligible for exemption from the first two semesters of the program.
This program provides graduates with dynamic national and international career opportunities designing innovative products. Students are challenged to explore a variety of presentation and communication techniques including digital modeling and model making utilising a wide range of industry software and workshop based prototyping facilities. New materials and manufacturing techniques are explored with a view to creating product concepts for the future. The creative and technological thrust of the program is supported by consideration of commercial factors, professional practice, consumer knowledge, and ethics.
# Interior Design

**Graduate Certificate of Design (Interior Design)**
**Graduate Diploma of Design (Interior Design)**
**Master of Design (Interior Design)**

**Campus:** Prahran and Distance Education

**Duration:** Graduate Certificate: 0.5 yr FT or 1 yr PT  
Graduate Diploma: 1 yr FT or 2 yrs PT  
Masters: 2 yrs FT or 4 yrs PT

**Entry requirements:** A degree or diploma in design from a recognised tertiary institution (or approved equivalent) and substantial experience in the design industry or design education (normally five years). A portfolio is also required.

**Note:** Applicants who have completed an Honours year in a design discipline will be eligible for exemption from the first two semesters of the program.

This program deals with the design of exhibitions (such as trade shows, events and museum displays), public environments (for example theatres, cinemas, government agencies and institutions), commercial spaces (including restaurants, offices, hotels, shopping areas and airports) and domestic environments. Design projects typically cover the construction of 3D space, surface treatments, materials, lighting, sound, fittings and furniture design.

# Multimedia Design

**Graduate Certificate of Design (Multimedia Design)**
**Graduate Diploma of Design (Multimedia Design)**
**Master of Design (Multimedia Design)**

**Campus:** Prahran

**Duration:** Graduate Certificate: 0.5 yr FT or 1 yr PT  
Graduate Diploma: 1 yr FT or 2 yrs PT  
Masters: 2 yrs FT or 4 yrs PT

**Entry requirements:** A degree in design from a recognised tertiary institution (or approved equivalent), or appropriate industrial experience. A portfolio is also required.

This course produces graduates with advanced understanding of interactive design, design and production for time and sequence, and design for new convergent media. While responding to the primary role of technology in contemporary design practice, the program focuses on understanding communication strategy and the context for design. The nature of teaching and learning encourages students to become informed designers and to develop the visual and conceptual approaches that produce compelling design. These include the examination of current and best practice in relevant design areas, and understanding design’s broad social, cultural and technological frameworks.

---

Venezuelan-born **Alexis Rodriguez** has been in Australia for only five months, but already he is enjoying the benefits of the “comfortable lifestyle”.

“Australia is a good country to study in; I am really enjoying the atmosphere and my course,” he says.

In the second year of his **Master of Multimedia Design** course, Alex is working on a number of practical design projects that he says are a highlight of his degree. “This course has really developed my research and investigation skills.”

Currently Alexis is taking part in a unique group project for his course that aims to bring art to Melbourne’s trams.

“We got the idea for the project when we noticed all the advertising on the Melbourne’s trains, trams and buses. We thought it would have a positive effect on people to create panels of artwork to replace the advertising. This would include art, poetry and digital images.”

The group’s ongoing project forms part of the Group Multimedia Design Project 1 subject, for which masters students research and identify a design issue and then propose a ‘solution’. Alexis hopes the design plan created for trams will be put into practice, and is currently liaising with Melbourne City Council to bring the idea to fruition.

As well as design projects, Alexis’ course covers multimedia technology subjects that focus on technical skills.

“I’d like to get into web development in the future and really develop my multimedia skills. The good thing about Swinburne is that I have access to the latest technology and facilities.”

“I think multimedia is a very exciting field. As a graphic designer, my work was limited to two-dimensional print but in multimedia there are more interactive possibilities like animations and DVD.”

With another year to go in his course, Alexis is keen to expand his web design experience and find work in Australia.


Air Transportation Management

Graduate Certificate of Technology (Air Transportation Management)
Graduate Diploma of Technology (Air Transportation Management)
Master of Technology Management (Air Transportation Management)

Campus: Distance Education

Duration: Graduate Certificate: 1 yr PT
Graduate Diploma: 2 yrs PT
Masters: 3 yrs PT

Note: Although this program is designed to be completed at the normal rate of two subjects per semester it is possible to vary this to suit the needs of the individual student.

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent). Applicants who do not hold an appropriate qualification but who have at least two years relevant work experience are also eligible to apply.

This program is designed primarily to meet the needs of personnel currently involved in the aviation industry who wish to upgrade their skills in the field of management in air transportation. In addition, the program is designed to have considerable application for personnel in related technologically based industries including civil and mechanical engineering, airlines and air traffic control as well as service industries and regulatory authorities.

Airport Planning, Operation and Management

Graduate Certificate of Technology (Airport Planning, Operation and Management)
Graduate Diploma of Technology (Airport Planning, Operation and Management)
Master of Technology Management (Airport Planning, Operation and Management)

Campus: Distance Education

Duration: Graduate Certificate: 1 yr PT
Graduate Diploma: 2 yrs PT
Masters: 3 yrs PT

Note: Although this program is designed to be completed at the normal rate of two subjects per semester it is possible to vary this to suit the needs of the individual student.

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent). Applicants who do not hold an appropriate qualification but who have at least two years relevant work experience are also eligible to apply.

This program provides students with the skills necessary to design and implement human factors programs within the aviation industry and to conceptualise and undertake human factors research. It also provides insight into management of the air transportation industry and a deep understanding of the multiple facets of human factors training and their application in the aviation industry.

Aviation Human Factors

Graduate Certificate of Technology (Aviation Human Factors)
Graduate Diploma of Technology (Aviation Human Factors)
Master of Technology Management (Aviation Human Factors)

Campus: Distance Education

Duration: Graduate Certificate: 1 yr PT
Graduate Diploma: 2 yrs PT
Masters: 3 yrs PT

Note: Although this program is designed to be completed at the normal rate of two subjects per semester it is possible to vary this to suit the needs of the individual student.

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent). Applicants who do not hold an appropriate qualification but who have at least two years relevant work experience are also eligible to apply.

This program provides students with the skills necessary to design and implement human factors programs within the aviation industry and to conceptualise and undertake human factors research. It also provides insight into management of the air transportation industry and a deep understanding of the multiple facets of human factors training and their application in the aviation industry.
**Construction Management**

Graduate Certificate of Technology (Construction Management)
Graduate Diploma of Technology (Construction Management)
Master of Technology Management (Construction Management)

**Campus:** Distance Education

**Duration:**
- Graduate Certificate: 1 yr PT
- Graduate Diploma: 2 yrs PT
- Masters: 3 yrs PT

**Note:** Although this program is designed to be completed at the normal rate of two subjects per semester it is possible to vary this to suit the needs of the individual student.

**Entry requirements:**
- An engineering degree, or a four-year degree in building or architecture, from a recognised tertiary institution (or approved equivalent). Applicants who do not hold an appropriate qualification but who have considerable relevant work experience are also eligible to apply.

The main aim of this course is to prepare graduates for future roles in managing people, equipment, materials, technological processes and funds in the construction, building and maintenance of buildings and assets in the civil infrastructure. This aim is facilitated by the study of advanced management and engineering techniques in the fields of construction, building and maintenance.

**Disaster Management**

Graduate Certificate in Disaster Management
Graduate Diploma in Disaster Management

**Campus:** Distance Education

**Duration:** Self-paced.

**Entry requirements:**
- A degree or advanced diploma from a recognised tertiary institution (or approved equivalent). Applicants with relevant work experience are also eligible to apply, particularly where relevant professional practice has been undertaken.

This program emphasises an ‘all-hazards’ approach to risk assessment. Prevention and mitigation strategies are considered in relation to the sustainability of the environment, livelihoods and economic development. The courses integrate the fields of public safety, public health, risk assessment and emergency/disaster management. The core modules in this program are constructed around the AS/NZS 4360:1999 Risk Management Standard. The ISO9000 series and the World Health Organisation (WHO) HACCP standards are also integrated into the delivery of the program.

**Industrial Engineering**

Graduate Certificate of Engineering (Industrial Engineering)
Graduate Diploma of Engineering (Industrial Engineering)
Master of Engineering (Industrial Engineering)
Master of Engineering (Industrial Engineering)(Honours)

**Campus:** Hawthorn

**Duration:**
- Graduate Certificate: 0.5 yr FT or 1 yr PT
- Graduate Diploma: 1 yr FT or 2 yrs PT
- Masters: 1.5 yrs FT or 3 yrs PT
- Honours: 2 yrs FT or 4 yrs PT

**Entry requirements:**
- A degree in engineering or science from a recognised tertiary institution (or approved equivalent).

This program is concerned with analysis, design, installation, control, evaluation and improvement of integrated systems by using scientific and practical approaches in mathematical, physical and social sciences together with principles and methods of engineering analysis and design. It is also concerned with performance standards, research of new products, and ways to improve use of resources (people, material and costs). Industrial Engineering’s focus on the financial, human factors and information technology in the design and operation of integrated systems, involves a thorough understanding of behavioural, social and environmental sciences.

**Logistics**

Graduate Certificate of Technology (Logistics)
Graduate Diploma of Technology (Logistics)
Master of Technology Management (Logistics)

**Campus:** Distance Education

**Duration:**
- Graduate Certificate: 1 yr PT
- Graduate Diploma: 2 yrs PT
- Masters: 3 yrs PT

**Note:** Although this program is designed to be completed at the normal rate of two subjects per semester it is possible to vary this to suit the needs of the individual student.

**Entry requirements:**
- A degree in engineering from a recognised tertiary institution (or approved equivalent). Applicants with other tertiary qualifications and relevant work experience are also eligible apply.

This program is designed to develop expertise in the technical and managerial aspects of the logistics industry.

**Manufacturing Technology**

Graduate Certificate of Engineering (Advanced Manufacturing Technology)
Graduate Diploma of Engineering (Advanced Manufacturing Technology)
Master of Engineering (Advanced Manufacturing Technology)
Master of Engineering (Advanced Manufacturing Technology)(Honours)

**Campus:** Hawthorn

**Duration:**
- Graduate Certificate: 0.5 yr FT or 1 yr PT
- Graduate Diploma: 1 yr FT or 2 yrs PT
- Masters: 1.5 yrs FT or 3 yrs PT
- Honours: 2 yrs FT or 4 yrs PT

**Entry requirements:**
- A degree in engineering or science from a recognised tertiary institution (or approved equivalent). Applicants with other tertiary qualifications and relevant industry experience will also be considered.

This program aims to provide students with an understanding of specific advanced and emerging manufacturing technologies and skills relating to the implementation of these technologies in modern industry within both global and local contexts.
Metrology and Quality

Graduate Certificate in Metrology and Quality

Campus: Distance Education

Duration: 1 yr FT or 2 yrs PT

Entry requirements: A degree or diploma in engineering or science from a recognised tertiary institution (or approved equivalent) and relevant experience. Applicants who do not hold an appropriate qualification but who have considerable relevant work experience are also eligible to apply.

This is a unique course covering the theoretical and practical aspects involved in metrology and quality. It has been developed in collaboration with the Metrology Society of Australia (MSA). The course covers measurement, standards and management. One of four areas of specialisation may be selected and students gain practical experience in the elements of metrology. The four areas of specialisation are: dimensional and mechanical, electrical and time and frequency, chemical and temperature, optical and quality.

Microsystem Technology

Graduate Certificate of Engineering (Microsystem Technology) Graduate Diploma of Engineering (Microsystem Technology) Master of Engineering (Microsystem Technology) Master of Engineering (Microsystem Technology)(Honours)

Campus: Hawthorn

Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT Graduate Diploma: 1 yr FT or 2 yrs PT Masters: 1.5 yrs FT or 3 yrs PT Honours: 2yrs FT or 3 yrs PT

Entry requirements: A degree in engineering, science or design from a recognised tertiary institution (or approved equivalent). Applicants who do not hold an appropriate qualification but who have considerable relevant work experience are also eligible to apply.

This program is aimed at developing the design, fabrication and testing skills needed for professionals interested in making a career in the field of microengineering. Microsystem technology is a multidisciplinary area and requires expertise that includes elements of physics, chemistry, biology, electrical engineering and materials engineering.

CRC Microtechnology scholarships are available to Australian citizens and permanent residents.

After completing a science degree, David Thomson was keen to apply his knowledge to the field of engineering, which made the Master of Engineering (Microsystem Technology) an ideal study choice.

Focusing on developing skills in design, fabrication and testing, for many students the course is the first step to a career in the cutting-edge micro-engineering industry.

“I’ve always been interested in engineering because it’s practical and such a growing field with diverse career opportunities. Engineering is also highly creative, especially before you reach the production stage.”

David’s passion for the course paid off when he was awarded the prestigious CRC for Microtechnology scholarship, which covered all of his course fees and provided him with industry-based research experience at Swinburne’s MiniFAB centre, a research and testing facility for the design and development of micro-systems.

“I was planning to apply for the course, even without the scholarship. I had good results, but I still feel very lucky to have been given a head-start.”

Working at the MiniFAB perfectly complemented David’s research. “My thesis focused on laser micro-machining and refining an existing industrial laser to be able to fabricate micro-fluidic devices, which are similar to microscope slides but include tiny channels and valves for water. Ultimately the aim of the project is to develop a cheaper way of producing diagnostic devices, and plastic is certainly a viable alternative to the various forms of glass that are predominantly used.”

As well as working in research, David believes a key benefit of the course was its coursework. “It really provided a strong knowledge framework and context for my research.”

After graduating in 2002, David is now working at MiniFAB for the CRC for microtechnology as a research engineer, further developing his research. “I hope to set up my own diagnostic technology company one day – it’s an exciting industry to be in.”
**Network Systems**

Graduate Certificate of Science (Network Systems)
Graduate Diploma of Science (Network Systems)
Master of Science (Network Systems)
Master of Science (Honours) (Network Systems)
Master of Information Technology (Network Systems)

Campus: Hawthorn

Duration:
- Graduate Certificate: 0.5 yr FT or 1 yr PT
- Graduate Diploma: 1 yr FT or 2 yrs PT
- Masters: 1.5 yrs FT or 3 yrs PT
- MSc(Hons): 2 yrs FT or 4 yrs PT
- MInfTech: 2 yrs FT or 4 yrs PT

Entry requirements: A degree or diploma in engineering, science, information technology, or in business or commerce with an emphasis on information technology, from a recognised tertiary institution (or approved equivalent). Applicants who do not hold an appropriate qualification but who have considerable relevant work experience are also eligible to apply.

The focus of this program is on the design, operation and management of networks, and is intended both for new graduates and for retraining experienced graduates who wish to update their skills or change their area of specialisation.

**Risk Management**

Graduate Certificate of Technology (Risk Management)
Graduate Diploma of Technology (Risk Management)
Master of Technology Management (Risk Management)

Campus: Distance Education

Duration:
- Graduate Certificate: 1 yr PT
- Graduate Diploma: 2 yrs PT
- Masters: 3 yrs PT

Note: Although this program is designed to be completed at the normal rate of two subjects per semester it is possible to vary this to suit the needs of the individual student.

Entry requirements: A degree or diploma in engineering, applied science or business from a recognised tertiary institution (or approved equivalent).

This course addresses the needs of industry to improve the management of resources associated with short and long-term risk to people, assets and production. It involves processes and techniques aimed at the cost-effective loss prevention of an organisation’s assets and resources. The course covers areas of health, safety, plant, property, financial control and maintenance.
Health and Human Services

Clinical Psychology*
Master of Psychology in Clinical Psychology
Campus: Hawthorn
Duration: 4 yrs PT

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) with a major in psychology and a fourth year sequence of studies in psychology, approved by the Australian Psychological Society. Preference will be given to applicants with experience relevant to clinical psychology.

This program provides high-level training in psychopathology, assessment and interventions with adults and children who are suffering from clinical disorders. Students will gain an understanding of clinical practice related to emotional disorders such as anxiety disorder, mood disorder, psychosis and personality disorder.

*This program will be offered subject to accreditation by the University and the Australian Psychological Society.

Family Therapy
Graduate Diploma of Social Science (Family Therapy)
Location: External venue
Duration: 2 yrs PT

Entry requirements: A degree in health or social sciences from a recognised tertiary institution (or approved equivalent), as well as training and some experience in counselling psychotherapy. Preference is given to applicants currently working in human services and/or currently working with clients.

This course develops systemic thinking and understanding of complex social/relational processes, including the emotional impact of social groups and family life on individual mental health and well-being. Casework with families, family-sensitive practice and collaborative partnerships with families in social service, education and mental health service provisions are all underpinned by the ideas and skills of family therapy.

Counselling Psychology
Master of Psychology in Counselling Psychology
Campus: Hawthorn
Duration: 4 yrs PT

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) with a major in psychology and a fourth year sequence of studies in psychology, approved by the Australian Psychological Society. Applicants should also have experience in face-to-face counselling or have completed formal training in counselling.

This program provides high-level training in counselling assessment, and related skills in counselling interventions, settings associated with major life-domains such as relationships, the family, work and education.

Health Psychology
Master of Psychology in Health Psychology
Campus: Hawthorn
Duration: 4 yrs PT

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) with a major in psychology and a fourth year sequence of studies in psychology, approved by the Australian Psychological Society.

This program is intended to prepare graduates for professional practice as health psychologists. Students gain skills, knowledge and experience across a continuum of practice, from public health promotion and disease prevention to client-based services for the physically ill and their families.
Housing Management and Policy

Graduate Certificate of Social Science (Housing Management and Policy)
Graduate Diploma of Social Science (Housing Management and Policy)
Master of Social Science (Housing Management and Policy)

Campus: Distance Education

Duration: Graduate Certificate: 2 yrs PT
Graduate Diploma: 3 yrs PT
Masters: 4 yrs PT

Entry requirements: Applicants should have at least five years appropriate work experience in housing management and administration, or in a related area such as the social and community sector, public administration, local government, or private real estate and property development. Applicants without work experience are also eligible if they have an appropriate degree such as Humanities, Social Science, Business, Architecture or Planning.

This is a distance education course designed for people working in the public and community housing sectors and related industries such as real estate and property development. It provides graduates with the practical and conceptual skills necessary for management, administration and policy development in housing provision.

Human Services – Counselling

Graduate Certificate of Social Science (Human Services – Counselling)
Graduate Diploma of Social Science (Human Services – Counselling)

Campus: Hawthorn

Duration: Graduate Certificate: 1 yr PT
Graduate Diploma: 2 yrs PT

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent). Preference will be given to those currently working in the human services industry.

These courses provide a broad based approach to counselling, with a focus on skills acquisition and application to a variety of work settings. The courses are practical rather than theoretical and deal with a number of important social and cultural factors that impact on work and human relationships.

Integrative Medicine

Graduate Certificate in Integrative Medicine
Graduate Diploma in Integrative Medicine

Campus: Hawthorn and Distance Education

Duration: Graduate Certificate: 1 yr PT
Graduate Diploma: 2 yrs PT

Entry requirements: A degree in medicine from a recognised tertiary institution (or approved equivalent). Consideration may be given to applicants with other degrees in the health sciences if places are available.

This course combines the scientific principles of conventional medical training with scientifically validated complementary therapies.

Male Family Violence

Graduate Certificate in Social Science (Male Family Violence)

Campus: Prahran and External Venue

Duration: 1 yr PT

Entry requirements: A degree or diploma in human services or social sciences from a recognised tertiary institution (or an approved equivalent). Applicants who do not hold an appropriate qualification but who have considerable relevant work experience may also apply.

This program is an initiative of Swinburne and the peak sector body in this area No To Violence (NTV). It has been jointly developed, and is delivered in partnership with sector organisations and leading practitioners. The course is designed for those who wish to work directly as a Male Family Violence Telephone Counsellor or as a Group Facilitator with men who use violence within their families.

Mind-Body Medicine

Graduate Certificate in Mind-Body Medicine
Graduate Diploma in Mind-Body Medicine

Campus: Hawthorn

Duration: Graduate Certificate: 1 yr PT
Graduate Diploma: 2 yrs PT

Entry requirements: A degree in medicine from a recognised tertiary institution (or an approved equivalent). Consideration may be given to applicants with other degrees in the health sciences if places are available.

Considering the central role that the mind plays in quality of life, illness, causation and lifestyle, Mind-Body Medicine has far-reaching relevance for modern healthcare. An understanding of this field can contribute significant changes in the management of many diseases, especially in cancer and infection.

Nutritional and Environmental Medicine

Graduate Certificate in Nutritional and Environmental Medicine
Graduate Diploma in Nutritional and Environmental Medicine

Campus: Hawthorn and Distance Education

Duration: Graduate Certificate: 1 yr PT
Graduate Diploma: 2 yrs PT

Entry requirements: A degree in medicine from a recognised tertiary institution (or an approved equivalent). Consideration may be given to applicants with other degrees in the health sciences if places are available.

The emphasis of this course is on the principles and practical application of nutritional and environmental medicine to common clinical problems.

Pre and Post-Natal Family Support

Graduate Certificate in Social Science
(Pre-natal and Post-natal Family Support)

Campus: Prahran

Duration: 1 yr PT

Entry requirements: A degree or diploma in children’s services from a recognised tertiary institution (or an approved equivalent).

Participants in this course develop the knowledge and skills to provide effective support to families during the prenatal and postnatal period, while broadening the skills they have already gained in previous undergraduate programs and workplace experiences. The course has been developed in partnership with family support centres to ensure it provides up to date, relevant information for employment in this field.
Psychological Studies
Graduate Diploma of Social Science (Psychological Studies)
Campus: Lilydale
Duration: 3 yrs PT
Entry requirements: A degree (any discipline other than psychology) from a recognised tertiary institution (or approved equivalent).
This course provides an opportunity for graduates, without a psychology major, to study an accredited undergraduate sequence of subjects in psychology. It also provides the basis for further studies in psychology for students who wish to become psychologists, and will provide skills for professionals from other fields eg. human resource management, information systems or teaching, who are seeking a good understanding of the principles of psychology to complement their knowledge and further their career.

Psychology
Postgraduate Diploma of Psychology
Campus: Hawthorn
Duration: 1 yr FT or 2 yrs PT
Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) with a major in psychology approved by the Australian Psychological Society.
This course is designed to prepare students to enter the psychology profession. Graduates develop basic competencies in research design and analysis and psychological assessment, plus an understanding of the ethical, moral, legal and social responsibilities of psychologists engaged in social and applied research and professional practice.
Graduates without an approved psychology major are advised to consider enrolment and completion of a psychology single subject sequence in order to meet entry requirements.

Statistics – Health/Social
Graduate Certificate of Science (Applied Statistics)
Graduate Diploma of Science (Applied Statistics)
Master of Science (Applied Statistics)
Campus: Hawthorn
Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1.5 yrs FT or 3 yrs PT
Note: Distance Education is available for most subjects.
Entry requirements: A degree or diploma from a recognised tertiary institution (or approved equivalent) and relevant experience. Applicants who do not hold an appropriate qualification but who have considerable relevant work experience may also be accepted.
This program is designed for graduates in the humanities, social and health sciences who have a professional interest in the use of statistics. It is also applicable to other graduates who have a need to use statistics in their work but have not had sufficient or current training in the area. It concentrates on practical skills and enables participants to broaden their theoretical and practical knowledge of the basic areas of social, health or sports statistics.

A passion for research led Lucy Busija to apply for the Master of Science (Applied Statistics), even though she was initially apprehensive about studying statistics.

“My first degree was teaching, and the last time I studied maths was in high school. But the course is so practical and covers every aspect of research, which soon put my concerns to rest.”

Lucy’s enthusiasm and previous solid academic achievement in her Psychology/Psychophysiology degree, were also rewarded when she received the Sir Rupert Hamer postgraduate scholarship, which covered part of her course fees.

“I felt ecstatic when I won, it was such an honour. I applied for it thinking it would be great to win, but I didn’t expect much. I’m certainly enjoying the course – it is broad-ranging and attracts people from different backgrounds who work on a variety of research projects.”

Lucy’s thesis compares the effectiveness of classical and modern medicine used to treat schizophrenia by analysing the results of more than 40 drug trials simultaneously to come up with a numerical measure of the drugs’ effectiveness.

“Results showed that older medicines were just as effective, and in some cases even more effective than the new ones. The drug trials tend to test older drugs at very high dosages, making them harmful and seemingly ineffective.”

The next step for Lucy, after publishing her research results, will be to enrol in a PhD that will focus on autistic children’s early development.

As for prospective students, Lucy would encourage other psychology students to consider a statistics course.

“There is a perception that statistics courses are highly mathematical, but statistics are the way we can make sense of the tremendous amount of information we get every day. As a researcher, having a thorough command of statistics allows you to interpret your results more easily and efficiently.”
Multimedia

Graduate Certificate in Multimedia
Graduate Diploma in Multimedia
Master of Multimedia
Master of Multimedia (Honours)
Master of Multimedia Technology

Campus: Hawthorn

Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1.5 yrs FT or 3 yrs PT
MMm (Hons): 2 yrs FT or 4 yrs PT
MMm Tech: 2 yrs FT or 4 yrs PT

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent).

This course is intended for graduates seeking to utilise the potential of multimedia to enhance their professional skills (especially those in the teaching, training or media professions), or those wishing to pursue a career in the exciting and dynamic multimedia industry (for example, multimedia author, website developer, or in eCommerce).

Multimedia Design

Graduate Certificate of Design (Multimedia Design)
Graduate Diploma of Design (Multimedia Design)
Master of Design (Multimedia Design)

Campus: Prahran

Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 2 yrs FT or 4 yrs PT

Entry requirements: A degree in design from a recognised tertiary institution (or approved equivalent) or appropriate industrial experience.

This course aims to produce postgraduates with a specialist understanding of communication design, media studies and programming as applied to the World Wide Web and computer interactive mediums. They will acquire specialist skills for communication design in typography, animation, 3D modelling, audio and video as applied to electronic mediums.
Social Sciences and Arts

Applied Media
Graduate Certificate of Arts (Applied Media)
Graduate Diploma of Arts (Applied Media)
Master of Arts (Applied Media)
Campus: Hawthorn
Duration: Graduate Certificate: 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1.5 yrs FT or 3 yrs PT
Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) or relevant experience. Students are expected to be computer literate and to have Internet access outside Swinburne.

This course is designed to provide both a theoretical base and a portfolio of skills applicable to a wide range of media activities. It is aimed at developing the skills of people interested in working in media-related industries, and enhancing the expertise of people already working in the media. It provides a broad range of writing and production skills valued in many sectors of the print, broadcasting and electronic media, such as radio production, online authoring and information technology.

Commercial Radio
Graduate Diploma of Arts (Commercial Radio)
Campus: Hawthorn
Duration: 1 yr FT
Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) or substantial experience in radio or related media industries.

This course is for people who wish to pursue a career in commercial radio broadcasting. Students receive intensive practical tuition in all aspects of commercial radio operations. There is a strong focus on digital audio processing and control systems using extensive computing facilities in studios and production areas. Broader issues are introduced, including broadcasting ethics and codes of practice, media law and ownership, the impact of information technologies and audience research.

Communications
Master of Arts (Communications)
Campus: Hawthorn
Duration: 1.5 yrs FT or 3 yrs PT
Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) or relevant experience.

This advanced media and telecommunications course provides students with specialised knowledge at the cutting edge of communications culture. Students gain skills in media and telecommunications policy analysis, cultural theory and textual analysis, production, writing and journalism, new communications technology, and marketing.

Philanthropy and Social Investment
Graduate Certificate of Social Science (Philanthropy and Social Investment)
Graduate Diploma of Social Science (Philanthropy and Social Investment)
Master of Social Science (Philanthropy and Social Investment)
Campus: Hawthorn
Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 2 yrs FT or 4 yrs PT
Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) or substantial experience in business, public administration, human services, financial and/or funds management, or at least five years experience in philanthropy.

This program is designed for government, business, not-for-profit, philanthropic and related private sector agencies which provide and manage grants and funds for the wellbeing of Australian citizens, generally called ‘philanthropy’ and ‘social investment’. It provides graduates with policy and applied skills in grant-making and social investment, conceptual development and public policy analysis.
**Technical Communication**

Graduate Certificate of Social Science (Technical Communication)
Graduate Diploma of Social Science (Technical Communication)

Campus: Hawthorn

Duration: Graduate Certificate: 1 yr PT
Graduate Diploma: 2 yrs PT

Entry requirements: A degree in any area of study from a recognised tertiary institution (or approved equivalent) or relevant training and experience.

Technical communicators are specialists who produce clearly written well-structured documents supporting complex concepts and products, including computer software. The course provides a strong grounding in analytical skills and practical competencies across a range of media, both paper and online. It also gives students project management skills and the ability to contribute to product.

**Writing**

Graduate Certificate of Arts (Writing)
Graduate Diploma of Arts (Writing)
Master of Arts (Writing)

Campus: Online

Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1.5 yrs FT or 3 yrs PT

Entry requirements: A degree in any area of study from a recognised tertiary institution (or approved equivalent) or relevant training and experience.

The course is designed to provide the professional and creative writing skills required to create content for new media fields, as well as fulfilling the more traditional creative and literary needs of writers wishing to publish their work either in print or online.

---

Although he is already a published writer and novelist Laurent Boulanger says completing Swinburne’s online Master of Arts (Writing) course has added a new dimension to his work.

“The course has forced me to explore other avenues of writing which I probably wouldn’t have bothered with if I had been on my own. It has also given me valuable feedback from tutors and other students in terms of my creative work and ideas,” he said.

Another benefit was that he was able to use the novel he is currently working on as his major project in the course. “This way the course feeds into my writing and my writing into the course,” he said.

Laurent was attracted to the course as it was totally online giving him the flexibility to continuing working and to structure a learning program that met his needs and requirements.

After immigrating to Australia from France at the age of 13 without any English, Laurent returned to study when he was 25 after working in a multitude of jobs. He completed an Associate Diploma of Arts in Professional Writing and Editing followed by a Bachelor of Arts in Professional Writing.

He has published over 30 articles in Australian, English and American publications and, since 1996, has been an Australian correspondent for Writers News, the UK’s largest circulating magazine for writers.

In 2002 his crime novel, *Murder on 45th Street*, was published through Belt Books in Sydney to an international market including Indonesia, Mexico, Japan, Europe and the USA. Laurent was invited by the publisher to write a crime novel that was sophisticated enough for adults, but graded to a level that learners of English could deal with.

Laurent is now passing on his knowledge to students as an e-tutor for writing subjects. Having studied the course himself, Laurent understands what it is like for students to learn online and can offer real insights into the process of writing. Laurent is also one of the first students to commence his PhD at Swinburne Lilydale, which focuses on forensic science in crime fiction novels.
# Course Information Summary

**Masters by Research**
For further information about the Masters by Research, contact the Office of Research and Graduate Studies on (03) 9214 5223 or visit the website at: www.swinburne.edu.au/research

**Doctors of Philosophy**
For further information about the Doctors of Philosophy, contact the Office of Research and Graduate Studies on (03) 9214 5223 or visit the website at: www.swinburne.edu.au/research

**Professional Doctorates**
A007 Doctor of Business Administration (DBA) Hawthorn E 2.5 yrs 5 yrs 40000 24
DP090 Professional Doctorate in Design Prahran D 3 yrs 6 yrs 50000 24
iBa Professional Doctorate of Psychology (Clinical Psychology)* Hawthorn D/E 4 yrs n/a 40000 24
N008 Professional Doctorate of Psychology (Counselling Psychology) Hawthorn D/E 4 yrs 8 yrs 40000 24
N009 Professional Doctorate of Psychology (Health Psychology) Hawthorn D/E 4 yrs 8 yrs 40000 24

**Programs by Coursework**

### Applied and Industrial Sciences

#### Astronomy
S048 Graduate Certificate of Science (Astronomy) ¥ n/a Online 0.5 yr 1 yr 2800 25
S058 Graduate Diploma of Science (Astronomy) ¥ n/a Online 1 yr 2 yrs 8400 25
S068 Master of Science (Astronomy) ¥ n/a Online 1.5 yrs 3 yrs 12600 25

#### Sustainability
21545VIC Graduate Certificate in Sustainability Hawthorn Online n/a 1 yr 5000 25

### Business, Innovation and Management

#### Accounting
A177 Graduate Certificate of Accounting ¥ Hawthorn D/W 0.5 yr 1 yr 6400 26
A187 Graduate Diploma of Accounting ¥ Hawthorn D/W 1 yr 2 yrs 12800 26
A197 Master of Accounting ¥ Hawthorn D/W 1.5-2 yrs 3-4 yrs 19200 26

#### Applied Business
0046GAB Graduate Certificate in Business (Applied Business) ¥ Hawthorn D/E 0.5 yr 1 yr 5000 26

#### Business Administration
B270 Graduate Certificate of Business Administration ¥ Hawthorn D/E/W 0.5 yr 1 yr 8700 26
B280 Graduate Diploma of Business Administration ¥ Hawthorn D/E/W 1 yr 2 yrs 21750 26
B290 Master of Business Administration (MBA) ¥ Hawthorn D/E/W 1.5 yrs 3 yrs 30450 26
B390 Master of Business Administration (Honours) ¥ Hawthorn D/E/W 2 yrs 4 yrs 34800 26

#### eBusiness and Communication
L075 Graduate Certificate of Business (eBusiness and Communication) ¥ Lilydale D/W/Online 0.5 yr 1 yr 6000 27
L082 Graduate Diploma of Business (eBusiness and Communication) ¥ Lilydale D/W/Online 1 yr 2 yrs 12000 27
L085 Master of Business (eBusiness and Communication) ¥ Lilydale D/W/Online 1.5 yrs 3 yrs 18000 27
L086 Master of Business (Honours) (eBusiness and Communication) ¥ Lilydale D/W/Online 2 yrs 4 yrs 24000 27

#### Entrepreneurship and Innovation
Y072 Graduate Certificate of Entrepreneurship and Innovation ¥ Hawthorn E/W 0.5 yr 1 yr 8700 27
Y082 Graduate Diploma of Entrepreneurship and Innovation ¥ Hawthorn E/W 1 yr 2 yrs 17400 27
Y291 Master of Entrepreneurship and Innovation (MED) ¥ Hawthorn E/W 1.5 yrs 3 yrs 26100 27
Y391 Master of Entrepreneurship and Innovation (Honours) ¥ Hawthorn E/W 2 yrs 4 yrs 34800 27

#### Executive Administration
0046BAA Graduate Certificate in Business (Executive Administration) ¥ Prahran W/Online 0.5 yr 1 yr 5000 27

#### Human Resource Management
5801BA Graduate Certificate in Human Resource Management ¥ Hawthorn E 0.5 yr 1 yr 6400 28
A181 Graduate Diploma of Business (Human Resource Management) ¥ Hawthorn E 1 yr 2 yrs 12800 28
A196 Master of Business (Human Resource Management) ¥ Hawthorn E 1.5 yrs 3 yrs 19200 28

#### International Business
A179 Graduate Certificate of Business (International Business) ¥ Hawthorn E/W 0.5 yr 1 yr 6400 28
A189 Graduate Diploma of Business (International Business) ¥ Hawthorn E/W 1 yr 2 yrs 12800 28
A199 Master of Business (International Business) ¥ Hawthorn E/W 1.5 yrs 3 yrs 19200 28

#### Marketing
A171 Graduate Certificate of Business (Marketing) ¥ Hawthorn E/W 0.5 yr 1 yr 6400 29
A186 Graduate Diploma of Business (Marketing) ¥ Hawthorn E/W 1 yr 2 yrs 12800 29
A195 Master of Business (Marketing) ¥ Hawthorn E/W 1.5 yrs 3 yrs 19200 29

*Subject to accreditation*
### Course Information Summary

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Campus</th>
<th>Study Mode</th>
<th>Full-time</th>
<th>Part-time</th>
<th>Fees A$*</th>
</tr>
</thead>
<tbody>
<tr>
<td>A172</td>
<td>Graduate Certificate of Business (Professional Practice)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>0.5 yr</td>
<td>1 yr</td>
<td>6400</td>
</tr>
<tr>
<td>0046BPM</td>
<td>Graduate Certificate in Business (Project Management) ¥</td>
<td>Hawthorn</td>
<td>E/W</td>
<td>n/a</td>
<td>1 yr</td>
<td>5000</td>
</tr>
<tr>
<td>0046QLM</td>
<td>Graduate Certificate in Quality Management ¥</td>
<td>Hawthorn</td>
<td>E</td>
<td>0.5 yr</td>
<td>1 yr</td>
<td>5000</td>
</tr>
<tr>
<td>A188</td>
<td>Graduate Diploma of Business (Research Methodology) ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1 yr</td>
<td>2 yrs</td>
<td>10000</td>
</tr>
<tr>
<td>0046SBUS</td>
<td>Graduate Certificate in Business (Small Business Management) ¥</td>
<td>Hawthorn</td>
<td>E</td>
<td>n/a</td>
<td>1 yr</td>
<td>5000</td>
</tr>
<tr>
<td>SF100</td>
<td>Graduate Certificate of Science (Strategic Foresight)</td>
<td>Hawthorn</td>
<td>D/Online</td>
<td>n/a</td>
<td>1 yr</td>
<td>7400</td>
</tr>
<tr>
<td>SF200</td>
<td>Graduate Diploma of Science (Strategic Foresight)</td>
<td>Hawthorn</td>
<td>D</td>
<td>n/a</td>
<td>2 yrs</td>
<td>14800</td>
</tr>
<tr>
<td>SF300</td>
<td>Master of Science (Strategic Foresight)</td>
<td>Hawthorn</td>
<td>D</td>
<td>n/a</td>
<td>3 yrs</td>
<td>22200</td>
</tr>
<tr>
<td>0046SUPP</td>
<td>Graduate Certificate in Business (Supply Chain Management) ¥</td>
<td>Hawthorn</td>
<td>E</td>
<td>0.5 yr</td>
<td>1 yr</td>
<td>5000</td>
</tr>
<tr>
<td>I095</td>
<td>Master of Science (Computing) ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1.5 yrs</td>
<td>3 yrs</td>
<td>15600</td>
</tr>
<tr>
<td>I096</td>
<td>Master of Science (Computing) (Honours) ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>2 yrs</td>
<td>4 yrs</td>
<td>20800</td>
</tr>
<tr>
<td>A075</td>
<td>Graduate Certificate of Information Systems ¥</td>
<td>Hawthorn</td>
<td>E</td>
<td>0.5 yr</td>
<td>1 yr</td>
<td>6000</td>
</tr>
<tr>
<td>A097</td>
<td>Master of Information Systems ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>n/a</td>
<td>3 yrs</td>
<td>18000</td>
</tr>
<tr>
<td>A098</td>
<td>Master of Information Systems/Master of Business Administration ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>2 yrs</td>
<td>4 yrs</td>
<td>39150</td>
</tr>
<tr>
<td>I071</td>
<td>Graduate Certificate in Information Technology ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>0.5 yr</td>
<td>1 yr</td>
<td>5200</td>
</tr>
<tr>
<td>I080</td>
<td>Graduate Diploma in Information Technology ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1 yr</td>
<td>2 yrs</td>
<td>10400</td>
</tr>
<tr>
<td>I082</td>
<td>Graduate Diploma in Information Technology (Information Systems Development) ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1 yr</td>
<td>2 yrs</td>
<td>10400</td>
</tr>
<tr>
<td>I084</td>
<td>Graduate Diploma in Information Technology (Internet Software Development) ¥</td>
<td>Hawthorn</td>
<td>D/E/Online</td>
<td>1 yr</td>
<td>2 yrs</td>
<td>10400</td>
</tr>
<tr>
<td>I091</td>
<td>Master of Information Technology ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1 yr</td>
<td>2 yrs</td>
<td>10400</td>
</tr>
<tr>
<td>I093</td>
<td>Master of Information Technology (Information Systems) ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1 yr</td>
<td>2 yrs</td>
<td>10400</td>
</tr>
<tr>
<td>I094</td>
<td>Master of Information Technology (Internet Computing) ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1 yr</td>
<td>2 yrs</td>
<td>10400</td>
</tr>
<tr>
<td>I092</td>
<td>Master of Information Technology (Software Engineering) ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1 yr</td>
<td>2 yrs</td>
<td>10400</td>
</tr>
<tr>
<td>I061</td>
<td>Master of Technology (information Technology) ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1.5 yrs</td>
<td>3 yrs</td>
<td>15600</td>
</tr>
<tr>
<td>I064</td>
<td>Master of Technology (information Systems) ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1.5 yrs</td>
<td>3 yrs</td>
<td>15600</td>
</tr>
<tr>
<td>I065</td>
<td>Master of Technology (information Technology Management) ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1.5 yrs</td>
<td>3 yrs</td>
<td>15600</td>
</tr>
<tr>
<td>I062</td>
<td>Master of Technology (Internet Computing) ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1.5 yrs</td>
<td>3 yrs</td>
<td>15600</td>
</tr>
<tr>
<td>I063</td>
<td>Master of Technology (Software Engineering) ¥</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1.5 yrs</td>
<td>3 yrs</td>
<td>15600</td>
</tr>
<tr>
<td>DMCD32</td>
<td>Graduate Certificate of Design (Communication Design) ¥</td>
<td>Prahran</td>
<td>D/E</td>
<td>0.5 yr</td>
<td>1 yr</td>
<td>5200</td>
</tr>
<tr>
<td>DMCD31</td>
<td>Graduate Diploma of Design (Communication Design) ¥</td>
<td>Prahran</td>
<td>D/E</td>
<td>1 yr</td>
<td>2 yrs</td>
<td>10400</td>
</tr>
<tr>
<td>DMCD30</td>
<td>Master of Design (Communication Design) ¥</td>
<td>Prahran</td>
<td>D/E</td>
<td>2 yrs</td>
<td>4 yrs</td>
<td>20800</td>
</tr>
<tr>
<td>DMID32</td>
<td>Graduate Certificate of Design (Industrial Design) ¥</td>
<td>Prahran</td>
<td>D/E</td>
<td>0.5 yr</td>
<td>1 yr</td>
<td>5200</td>
</tr>
<tr>
<td>DMID31</td>
<td>Graduate Diploma of Design (Industrial Design) ¥</td>
<td>Prahran</td>
<td>D/E</td>
<td>1 yr</td>
<td>2 yrs</td>
<td>10400</td>
</tr>
<tr>
<td>DMID30</td>
<td>Master of Design (Industrial Design) ¥</td>
<td>Prahran</td>
<td>D/E</td>
<td>2 yrs</td>
<td>4 yrs</td>
<td>20800</td>
</tr>
<tr>
<td>DMINT</td>
<td>Graduate Certificate of Design (Interior Design) ¥</td>
<td>Prahran</td>
<td>D/E</td>
<td>0.5 yr</td>
<td>1 yr</td>
<td>5200</td>
</tr>
<tr>
<td>DMINTD31</td>
<td>Graduate Diploma of Design (Interior Design) ¥</td>
<td>Prahran</td>
<td>D/E</td>
<td>1 yr</td>
<td>2 yrs</td>
<td>10400</td>
</tr>
<tr>
<td>DMINTD30</td>
<td>Master of Design (Interior Design) ¥</td>
<td>Prahran</td>
<td>D/E</td>
<td>2 yrs</td>
<td>4 yrs</td>
<td>20800</td>
</tr>
<tr>
<td>DMMD32</td>
<td>Graduate Certificate of Design (Multimedia Design) ¥</td>
<td>Prahran</td>
<td>D/E</td>
<td>0.5 yr</td>
<td>1 yr</td>
<td>5200</td>
</tr>
<tr>
<td>DMMD31</td>
<td>Graduate Diploma of Design (Multimedia Design) ¥</td>
<td>Prahran</td>
<td>D/E</td>
<td>1 yr</td>
<td>2 yrs</td>
<td>10400</td>
</tr>
<tr>
<td>DMMD30</td>
<td>Master of Design (Multimedia Design) ¥</td>
<td>Prahran</td>
<td>D/E</td>
<td>2 yrs</td>
<td>4 yrs</td>
<td>20800</td>
</tr>
<tr>
<td>Course code</td>
<td>Course title</td>
<td>Campus</td>
<td>Study mode</td>
<td>Duration</td>
<td>Fees A$*</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>--------------</td>
<td>--------</td>
<td>------------</td>
<td>----------</td>
<td>----------</td>
<td></td>
</tr>
<tr>
<td>MF94</td>
<td>Graduate Certificate of Technology (Air Transportation Management)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>1 yr</td>
<td>5600</td>
</tr>
<tr>
<td>MF95</td>
<td>Graduate Diploma of Technology (Air Transportation Management)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>2 yrs</td>
<td>11200</td>
</tr>
<tr>
<td>MF96</td>
<td>Master of Technology Management (Air Transportation Management)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>3 yrs</td>
<td>16800</td>
</tr>
<tr>
<td>MF97</td>
<td>Graduate Certificate of Technology (Airport Planning, Operation and Management)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>1 yr</td>
<td>5600</td>
</tr>
<tr>
<td>MF98</td>
<td>Graduate Diploma of Technology (Airport Planning, Operation and Management)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>2 yrs</td>
<td>11200</td>
</tr>
<tr>
<td>MF99</td>
<td>Master of Technology Management (Airport Planning, Operation and Management)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>3 yrs</td>
<td>16800</td>
</tr>
<tr>
<td>M094</td>
<td>Graduate Certificate of Technology (Aviation Human Factors)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>1 yr</td>
<td>5600</td>
</tr>
<tr>
<td>M095</td>
<td>Graduate Diploma of Technology (Aviation Human Factors)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>2 yrs</td>
<td>11200</td>
</tr>
<tr>
<td>M096</td>
<td>Master of Technology Management (Aviation Human Factors)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>3 yrs</td>
<td>16800</td>
</tr>
<tr>
<td>C095</td>
<td>Graduate Certificate of Technology (Construction Management)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>1 yr</td>
<td>5600</td>
</tr>
<tr>
<td>C096</td>
<td>Graduate Diploma of Technology (Construction Management)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>2 yrs</td>
<td>11200</td>
</tr>
<tr>
<td>C097</td>
<td>Master of Technology Management (Construction Management)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>3 yrs</td>
<td>16800</td>
</tr>
<tr>
<td>S0046GCDIS</td>
<td>Graduate Certificate in Disaster Management</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>self-paced</td>
<td>3960</td>
</tr>
<tr>
<td>S0046GDDIS</td>
<td>Graduate Diploma in Disaster Management</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>self-paced</td>
<td>7920</td>
</tr>
<tr>
<td>C066</td>
<td>Graduate Certificate of Technology (Logistics)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>1 yr</td>
<td>5600</td>
</tr>
<tr>
<td>C076</td>
<td>Graduate Diploma of Technology (Logistics)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>2 yrs</td>
<td>11200</td>
</tr>
<tr>
<td>C086</td>
<td>Master of Technology Management (Logistics)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>3 yrs</td>
<td>16800</td>
</tr>
<tr>
<td>IRAMT1</td>
<td>Graduate Certificate of Engineering (Advanced Manufacturing Technology)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>0.5 yr</td>
<td>1 yr</td>
<td>6800</td>
</tr>
<tr>
<td>IRAMT2</td>
<td>Graduate Diploma of Engineering (Advanced Manufacturing Technology)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1 year</td>
<td>2 years</td>
<td>13600</td>
</tr>
<tr>
<td>IRAMT3</td>
<td>Master of Engineering (Advanced Manufacturing Technology)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1.5 years</td>
<td>3 years</td>
<td>20400</td>
</tr>
<tr>
<td>IRAMT4</td>
<td>Master of Engineering (Advanced Manufacturing Technology) (Honours)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>2 years</td>
<td>4 years</td>
<td>27200</td>
</tr>
<tr>
<td>RMQ1</td>
<td>Graduate Certificate of Engineering (Metrology and Quality)</td>
<td>Hawthorn</td>
<td>D/Distance</td>
<td>1 year</td>
<td>2 years</td>
<td>6800</td>
</tr>
<tr>
<td>RMICR1</td>
<td>Graduate Certificate of Engineering (Microsystem Technology)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>0.5 year</td>
<td>1 year</td>
<td>6800</td>
</tr>
<tr>
<td>RMICR2</td>
<td>Graduate Diploma of Engineering (Microsystem Technology)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1 year</td>
<td>2 years</td>
<td>13600</td>
</tr>
<tr>
<td>RMICR3</td>
<td>Master of Engineering (Microsystem Technology)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1.5 years</td>
<td>3 years</td>
<td>20400</td>
</tr>
<tr>
<td>RMICR4</td>
<td>Master of Engineering (Microsystem Technology) (Honours)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1.5 years</td>
<td>3 years</td>
<td>27200</td>
</tr>
<tr>
<td>S049</td>
<td>Graduate Certificate of Science (Network Systems)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>0.5 year</td>
<td>1 year</td>
<td>5200</td>
</tr>
<tr>
<td>S059</td>
<td>Graduate Diploma of Science (Network Systems)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1 year</td>
<td>2 years</td>
<td>10400</td>
</tr>
<tr>
<td>S069</td>
<td>Master of Science (Network Systems)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1.5 years</td>
<td>3 years</td>
<td>15600</td>
</tr>
<tr>
<td>S079</td>
<td>Master of Information Technology (Network Systems)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>2 years</td>
<td>4 years</td>
<td>20800</td>
</tr>
<tr>
<td>M077</td>
<td>Graduate Certificate of Technology (Risk Management)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>1 yr</td>
<td>5600</td>
</tr>
<tr>
<td>M087</td>
<td>Graduate Diploma of Technology (Risk Management)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>2 yrs</td>
<td>11200</td>
</tr>
<tr>
<td>M097</td>
<td>Master of Technology Management (Risk Management)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>n/a</td>
<td>3 yrs</td>
<td>16800</td>
</tr>
</tbody>
</table>

**Health and Human Services**

**Clinical Psychology***

| tba | Master of Psychology in Clinical Psychology | Hawthorn | E | n/a | 4 yrs | 20000 | 39 |

**Counselling Psychology**

| N0904 | Master of Psychology in Counselling Psychology | Hawthorn | E | n/a | 4 yrs | 20000 | 39 |

**Family Therapy**

| N0811 | Graduate Diploma of Social Science (Family Therapy) | External | D/E/W | n/a | 2 yrs | 8000 | 39 |

**Health Psychology**

| N0905 | Master of Psychology in Health Psychology | Hawthorn | E | n/a | 4 yrs | 20000 | 39 |

**Housing Management and Policy**

| N079 | Graduate Certificate of Social Science (Housing Management and Policy) | Hawthorn | Distance | n/a | 2 yrs | 5200 | 40 |
| N0807 | Graduate Diploma of Social Science (Housing Management and Policy) | Hawthorn | Distance | n/a | 3 yrs | 7800 | 40 |
| N0903 | Master of Social Science (Housing Management and Policy) | Hawthorn | Distance | n/a | 4 yrs | 10600 | 40 |

*Subject to accreditation
<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Campus</th>
<th>Study mode</th>
<th>Duration</th>
<th>Fees A$*</th>
</tr>
</thead>
<tbody>
<tr>
<td>N0705</td>
<td>Graduate Certificate of Social Science (Human Services – Counselling)</td>
<td>Hawthorn</td>
<td>E</td>
<td>n/a</td>
<td>1 yr</td>
</tr>
<tr>
<td>N0805</td>
<td>Graduate Diploma of Social Science (Human Services – Counselling)</td>
<td>Hawthorn</td>
<td>E</td>
<td>n/a</td>
<td>2 yrs</td>
</tr>
<tr>
<td>GSIM1</td>
<td>Graduate Certificate in Integrative Medicine</td>
<td>Hawthorn/Online</td>
<td>E/Distance</td>
<td>n/a</td>
<td>1 yr</td>
</tr>
<tr>
<td>GSIM2</td>
<td>Graduate Diploma in Integrative Medicine</td>
<td>Hawthorn/Online</td>
<td>E/Distance</td>
<td>n/a</td>
<td>2 yrs</td>
</tr>
<tr>
<td>GSIM5</td>
<td>Graduate Certificate in Mind-Body Medicine</td>
<td>Hawthorn</td>
<td>E</td>
<td>n/a</td>
<td>1 yr</td>
</tr>
<tr>
<td>GSIM6</td>
<td>Graduate Diploma in Mind-Body Medicine</td>
<td>Hawthorn</td>
<td>E</td>
<td>n/a</td>
<td>2 yrs</td>
</tr>
<tr>
<td>GSIM3</td>
<td>Graduate Certificate in Nutritional and Environmental Medicine</td>
<td>Hawthorn/Online</td>
<td>E/Distance</td>
<td>n/a</td>
<td>1 yr</td>
</tr>
<tr>
<td>GSIM4</td>
<td>Graduate Diploma in Nutritional and Environmental Medicine</td>
<td>Hawthorn/Online</td>
<td>E/Distance</td>
<td>n/a</td>
<td>2 yrs</td>
</tr>
<tr>
<td>GSIM5</td>
<td>Graduate Certificate in Integrative Medicine</td>
<td>Hawthorn</td>
<td>E</td>
<td>n/a</td>
<td>1 yr</td>
</tr>
<tr>
<td>GSIM6</td>
<td>Graduate Diploma in Integrative Medicine</td>
<td>Hawthorn</td>
<td>E</td>
<td>n/a</td>
<td>2 yrs</td>
</tr>
<tr>
<td>LS034</td>
<td>Graduate Certificate in Social Science (Pre and Post Natal Family Support)</td>
<td>Prahran/EV</td>
<td>D/E</td>
<td>n/a</td>
<td>1 yr</td>
</tr>
<tr>
<td>LS0812</td>
<td>Postgraduate Diploma of Psychology</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1 yr</td>
<td>2 yrs</td>
</tr>
<tr>
<td>LS191</td>
<td>Graduate Certificate of Science (Applied Statistics)</td>
<td>Hawthorn</td>
<td>D/E/Distance</td>
<td>0.5 yr</td>
<td>1 yr</td>
</tr>
<tr>
<td>LS192</td>
<td>Graduate Diploma of Science (Applied Statistics)</td>
<td>Hawthorn</td>
<td>D/E/Distance</td>
<td>1 yr</td>
<td>2 yrs</td>
</tr>
<tr>
<td>LS193</td>
<td>Master of Science (Applied Statistics)</td>
<td>Hawthorn</td>
<td>E/W</td>
<td>1.5 yrs</td>
<td>3 yrs</td>
</tr>
<tr>
<td>J076</td>
<td>Graduate Certificate of Multimedia</td>
<td>Hawthorn</td>
<td>E/W</td>
<td>0.5 yr</td>
<td>1 yr</td>
</tr>
<tr>
<td>J086</td>
<td>Graduate Diploma of Multimedia</td>
<td>Hawthorn</td>
<td>E/W</td>
<td>1 yr</td>
<td>2 yrs</td>
</tr>
<tr>
<td>J096</td>
<td>Master of Multimedia</td>
<td>Hawthorn</td>
<td>E/W</td>
<td>1.5 yrs</td>
<td>3 yrs</td>
</tr>
<tr>
<td>J100</td>
<td>Master of Multimedia (Honours)</td>
<td>Hawthorn</td>
<td>E/W</td>
<td>2 yrs</td>
<td>4 yrs</td>
</tr>
<tr>
<td>J106</td>
<td>Master of Multimedia Technology</td>
<td>Hawthorn</td>
<td>E/W</td>
<td>2 yrs</td>
<td>4 yrs</td>
</tr>
<tr>
<td>DDD02</td>
<td>Graduate Certificate of Design (Multimedia Design)</td>
<td>Prahran</td>
<td>D</td>
<td>0.5 yr</td>
<td>1 yr</td>
</tr>
<tr>
<td>DDD031</td>
<td>Graduate Diploma of Design (Multimedia Design)</td>
<td>Prahran</td>
<td>D</td>
<td>1 yr</td>
<td>2 yrs</td>
</tr>
<tr>
<td>DDD030</td>
<td>Master of Design (Multimedia Design)</td>
<td>Prahran</td>
<td>D</td>
<td>2 yrs</td>
<td>4 yrs</td>
</tr>
<tr>
<td>N070</td>
<td>Graduate Certificate of Arts (Applied Media)</td>
<td>Hawthorn</td>
<td>E</td>
<td>n/a</td>
<td>1 yr</td>
</tr>
<tr>
<td>N0804</td>
<td>Graduate Diploma of Arts (Applied Media)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1 yr</td>
<td>2 yrs</td>
</tr>
<tr>
<td>N0907</td>
<td>Master of Arts (Applied Media)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1.5 yrs</td>
<td>3 yrs</td>
</tr>
<tr>
<td>N061</td>
<td>Graduate Diploma of Arts (Commercial Radio)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1 yr</td>
<td>n/a</td>
</tr>
<tr>
<td>N095</td>
<td>Master of Arts (Communications)</td>
<td>Hawthorn</td>
<td>D/E</td>
<td>1.5 yrs</td>
<td>3 yrs</td>
</tr>
<tr>
<td>NP170</td>
<td>Graduate Certificate of Social Science (Philanthropy and Social Investment)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>0.5 yr</td>
<td>1 yr</td>
</tr>
<tr>
<td>NP180</td>
<td>Graduate Diploma of Social Science (Philanthropy and Social Investment)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>1 yr</td>
<td>2 yrs</td>
</tr>
<tr>
<td>NP190</td>
<td>Master of Social Science (Philanthropy and Social Investment)</td>
<td>Hawthorn</td>
<td>Distance</td>
<td>2 yrs</td>
<td>4 yrs</td>
</tr>
<tr>
<td>N0750</td>
<td>Master of Social Science (Technical Communication)</td>
<td>Hawthorn</td>
<td>E</td>
<td>n/a</td>
<td>1 yr</td>
</tr>
<tr>
<td>N0850</td>
<td>Graduate Diploma of Social Science (Technical Communication)</td>
<td>Hawthorn</td>
<td>E</td>
<td>n/a</td>
<td>2 yrs</td>
</tr>
<tr>
<td>LS071</td>
<td>Graduate Certificate of Arts (Writing)</td>
<td>Lilydale</td>
<td>Online</td>
<td>0.5 yr</td>
<td>1 yr</td>
</tr>
<tr>
<td>LS079</td>
<td>Graduate Diploma of Arts (Writing)</td>
<td>Lilydale</td>
<td>Online</td>
<td>1 yr</td>
<td>2 yrs</td>
</tr>
<tr>
<td>LS084</td>
<td>Master of Arts (Writing)</td>
<td>Lilydale</td>
<td>Online</td>
<td>1.5 yrs</td>
<td>3 yrs</td>
</tr>
</tbody>
</table>

*These are the fees for 2005 and are subject to change. They apply to Australian citizens and holders of a permanent humanitarian visa. International students should refer to the Postgraduate Course Guide for International Students, or visit the International Student website at: www.swin.edu/isu*
Swinburne Expo
Royal Exhibition Building, Carlton Gardens
Sunday 29 August 2004
Between 10.00am and 4.00pm
Website: www.swinexpo.com

Come to Swinburne Expo and see all that
Swinburne has to offer in the one location
– the Royal Exhibition Building.

You will be able to talk to our staff and students, and be inspired by our:
■ Displays
■ Forums
■ Information Sessions
■ Performances

Swinburne Expo replaces our traditional Open Day. To visit our campuses, register for a campus tour at www.swinburne.edu.au/tours or call 1300 368 777.

The information contained in this publication was correct at the time of going to press, July 2004. Admission requirements apply to 2005 entry and may vary in subsequent years. The University reserves the right to alter or amend the material contained in this Course Guide.

Equality of educational opportunity is Swinburne University of Technology policy.

Published by the Corporate Marketing Department
Swinburne University of Technology
Design and typesetting by Swinburne Press Art Department
Profile photography by Paul Tresize
ISSN 1440-4044

Swinburne University of Technology
Melbourne, Australia

Croydon campus
Norton Road
Chirnley Vic. 3136
(03) 9214 8000

Hawthorn campus
John Street
Hawthorn Vic. 3122
(03) 9214 8000

Heidelberg campus
Narre Warren Highway
Heidelberg West Vic. 3081
(03) 9657 1800

Lilydale campus
Malvern Avenue
Lilydale Vic. 3140
(03) 9214 8000

Princes campus
High Street
Princes Vic. 3181
(03) 9214 8000

Warrandyte campus
Shad Road
Warrandyte Vic. 3112
(03) 9214 8000

Coursework index
Accounting 26
Air Transportation Management 36
Airport Planning, Operation and Management 35
Applied Business 26
Applied Media 43
Astronomy 25
Aviation Human Factors 36
Business Administration 28
Clinical Psychology 39
Commercial Radio 43
Communication Design 30
Communications 43
Computing 31
Construction Management 36
Counselling Psychology 39
Disaster Management 36
eBusiness and Communication 27
Entrepreneurship and Innovation 27
Executive Administration 27
Family Therapy 39
Health Psychology 39
Housing Management and Policy 40
Human Resource Management 36
Human Services – Counselling 40
Industrial Design 33
Industrial Engineering 36
Information Systems 31
Information Technology 31/32
Integrative Medicine 40
Interior Design 33
International Business 28
Internet Computing 31
Logistics 36
Manufacturing Technology 36
Male Family Violence 40
Marketing 29
Meteorology and Climate 37
Microsystem Technology 37
Mind-Body Medicine 40
Multimedia 42
Nutritional and Environmental Medicine 40
Philanthropy and Social Investment 43
Pre and Post-Natal Family Support 40
Professional Practice 29
Project Management 29
Psychological Studies 41
Psychology 41
Quality Management 30
Risk Management 38
Research Methodology 30
Small Business Management 30
Software Engineering 31
Statistics – Health/Social 41
Strategic Forecasting 36
Supply Chain Management 30
Sustainability 26
Technical Communication 44
Writing 44

Multimedia Design 34/42
Network Systems 36
Nutritional and Environmental Medicine 40
Philanthropy and Social Investment 43
Pre and Post-Natal Family Support 40
Professional Practice 29
Project Management 29
Psychological Studies 41
Psychology 41
Quality Management 30
Risk Management 38
Research Methodology 30
Small Business Management 30
Software Engineering 31
Statistics – Health/Social 41
Strategic Forecasting 36
Supply Chain Management 30
Sustainability 26
Technical Communication 44
Writing 44

Consulting Services, Executive and Customised programs
As well as Swinburne’s range of standard accredited postgraduate courses, Swinburne’s Industry Consulting Services (ICS) offers a wide range of non-accredited postgraduate courses and customised postgraduate courses. These range from industry specific training to executive education.

Our range of accredited and non-accredited programs include:

■ Management and leadership programs
  Short courses for managers and executives ranging from leadership, organisational performance and strategic management to project management and innovation.

■ Graduate Certificates with pathways to MBAs and other Masters programs
  Swinburne’s suite of Graduate Certificates can be customised for delivery into any workplace.

■ Customised training
  Swinburne delivers customised programs drawing from nationally accredited training packages. Thirty industry-specific areas are available, including automotive, business, community services, financial services, media, health, horticulture, IT, local government, retail, telecommunications, and transport and distribution.

■ Consulting
  By working closely with a client to understand their learning and development needs, Swinburne can provide analysis and recommend solutions to assist organisations with their overall human resources strategies.

ICS understands that businesses can’t afford to have staff off-line for long periods of time. That’s why our programs are usually delivered in the workplace, via a range of flexible delivery options including face-to-face, self-paced workbooks, online with tutor support, workshops, or a blended delivery combining the above.

To have one of our representatives contact you or visit your business to find out how we can meet your training needs:

Telephone: (03) 9214 5458
Email: ics@swin.edu.au
Visit: www.swinburne.edu.au/ics