Postgraduate Course Guide
Coursework and Research Degrees for 2004
Croydon • Hawthorn • Healesville • Lilydale • Prahran • Wantirna

- Applied and Industrial Sciences
- Business, Innovation and Management
- Computing and Information Technology
- Design
- Engineering and Technology
- Health and Human Services
- Multimedia
- Social Sciences and Arts
Swinburne Expo
Royal Exhibition Building, Carlton Gardens
Sunday 31 August 2003

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.swin.edu.au/tours or call 1300 368 777.
Welcome to Swinburne

In this course guide you will find details about the wealth of opportunities for further study available at Swinburne, ranging from postgraduate coursework programs to PhDs.

Flexibility is the hallmark of Swinburne’s approach to coursework and we offer you many choices, not only between programs, but also within them.

We are building learning environments that will allow you to choose the time, place, pace and mode of learning that best suits your circumstances and preferences. Our courses are delivered using both the latest educational technologies and face-to-face interaction.

Swinburne postgraduate courses are designed to prepare graduates to live and work in the contemporary world, which is characterised by higher levels of interaction between economies and societies, and higher levels of innovation and entrepreneurial ventures.

We are building international experience into our courses wherever possible, offering many options for studying in an overseas location, and equipping students with the skills needed to innovate and take an entrepreneurial approach.

Much of our research is concentrated in our specialist research centres, which are noted for their links into industry and the community. Graduates who have worked in these centres are widely recognised for the contribution they are making to Australian and international business, industry and society, through their ability to solve important practical problems in applied, interdisciplinary research and generate valuable Intellectual Property. The centres are at the cutting edge in their respective fields, and are nationally or internationally prominent.

For further information about the University, please visit our website at: www.swin.edu.au

We trust you will make wise choices and enjoy your time at Swinburne.

J G Wallace
Vice-Chancellor
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 Information 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 of Business Administration (DBA)
- Professional Doctorate in Clinical Psychology (DPsych)
- Professional Doctorate in Counselling Psychology (DPsych)
- Professional Doctorate in Design (DDes)
- Professional Doctorate in Health Psychology (DPsych)

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.

How to use this Course Guide

The Postgraduate Course Guide provides an overview of the postgraduate research and coursework programs offered at Swinburne.

To locate a specific course, consult the Course Information Summary on pages 45–48, and identify the course title and page reference you require. Alternatively, browse through the research or coursework sections. The coursework programs are grouped in the following colour coded study areas:

- Applied and Industrial Sciences
- Business, Innovation and Management
- Computing and Information Technology
- Design
- Engineering and Technology
- Health and Human Services
- Multimedia
- Social Science and Arts

If you require more detailed information:

- Visit CourseFinder on our website at: www.swin.edu.au/coursefinder
- Telephone the information hotline on 1300 368 777
- Come to the Swinburne Expo at the Royal Exhibition Building on Sunday 31 August between 10.00 am and 4.00 pm.
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 exit points. Suites are available in a number of disciplines including Statistics, General Management, Information Technology, Information Systems, Entrepreneurship and Innovation, International Management, Risk Management, Multimedia Design and Design Studies.

**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.

**Evening classes**
Most of our postgraduate coursework programs can be taken on a part-time basis and many are held in the evening, 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.swin.edu.au/scholarships

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After ten years working as an engineer, Paul Bitetto was keen to start up his own enterprise, making him an ideal candidate for Swinburne’s Master of Entrepreneurship and Innovation (MEI) course.

“I have always wanted to run my own company. Ideally, I’d like to start and continue a high-profile company in Melbourne – that’s definitely one of my ambitions.”

These ambitions are well on the way to becoming a reality for Paul. As well as finishing his degree, he is one of three founding directors of InVision, a biomedical imaging company whose business plan won the 2002 Swinburne Venture Cup, as well as the Stanford Prize for being judged the closest to commercial success.

“My team and I were overwhelmed by the win, especially considering the competition, but we’re pleased that all our hard work has paid off. It gave us the momentum to market our concept and seek wide corporate sponsorship.”

InVision is developing an endoscope that is able to give an interior 3-D microscopic image that could provide a less invasive diagnosis of cancer.

The technology is based on the pioneering work of Swinburne’s Professor Min Gu at the Centre for Microphotonics and his PhD student, Damian Bird. For Paul, working on such a project makes his efforts worthwhile.

“When you study the course you begin to realise how many business mistakes you used to make! I really feel that the thorough, systematic training I’ve been getting is maximising the business opportunities open to me,” Paul said.
Swinburne’s campuses

Croydon campus
12–50 Norton Road
Croydon Vic 3136

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

Hawthorn campus
John Street
Hawthorn Vic 3122

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.

Healesville campus
237 Maroondah Highway
Healesville Vic 3777

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.

Swinburne’s international campuses

The proposed Swinburne Vabis University of Technology, Vietnam. Due to open 2004.

Swinburne Tummasiri Chonburi, Thailand
www.swinburne.ac.th/

Swinburne Sarawak Institute of Technology
Kuching, East Malaysia
www.swinburne.edu.my/
The Lilydale campus is the newest face of Swinburne, and offers TAFE, undergraduate and postgraduate courses. The campus is small, ensuring a friendly and supportive environment where students can easily get the help they need. Campus facilities are growing, and include a Student Village, the Mitchell’s View training restaurant, and a new building containing a second lecture theatre and multimedia and design labs.

Prahran campus is home to the renowned National School 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, business and management, computing and information technology, engineering and electronics, horticulture, and health and community services.

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Lilydale campus
Melba Avenue
Lilydale Vic 3140

Prahran campus
144 High Street
Prahran Vic 3181

Wantirna campus
369 Stud Road
Wantirna Vic 3152

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:Swinburne’s virtual campus tour
www.swin.edu.au/campus_tour

Melways reference: 38 D6
Melways reference: 58 D6
Melways reference: 63 J12
Accommodation
Swinburne’s Housing Office 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 (Wanlina)

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

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

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.swin.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 5455
Email: sskinner@swin.edu.au
Applications 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.swin.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 5224
Website: www.swin.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

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.swin.edu.au/research

Fees for Australian citizens and permanent residents

Study now, pay later with PELS
The Postgraduate Education Loans Scheme (PELS) is a Commonwealth Government initiative offering an interest-free loans facility. PELS is available to fee-paying postgraduate students undertaking non-research courses. It is similar to the HECS deferred payment arrangements. PELS is available for all postgraduate courses unless otherwise indicated in the course outline. For more information on PELS, see: www.swin.edu.au/postgrad

Postgraduate programs by coursework
The proposed fees for 2004 are listed on pages 44-48.
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 $284 per annum for a full-time candidate.

Professional Doctorate programs
For information on fees contact the relevant school. See page 24.
Swinburne offers two premier scholarships to outstanding students for research leading to the degree of Doctor of Philosophy. Each CRS will carry a stipend of $25,000 (tax-exempt), 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. An annual General Service Fee does apply.

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, 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 approximately $18,000 per annum (tax-exempt).

A Brain Sciences Institute Postgraduate Scholarship is awarded each year consisting of a two-year Masters program or a three-year PhD. The Scholarship is in accordance with the Australian Postgraduate Awards. Application forms can be obtained by visiting the website at: http://mind.scan.swin.edu.au

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 Graduate Research School

The Swinburne Graduate Research School is a facility designed for, and dedicated to, the needs of the University’s research community. Located in an historic building in the centre of the Hawthorn campus, the Research School is close to the main library, Swinburne’s central administration and the facilities of the Student Union. It is only a short walk from Glenferrie railway station and many fine restaurants and shops.

Amongst the extensive facilities offered to postgraduate research students through the Graduate Research School are:
- Individual work spaces, including carrel and filing cabinet
- A fully networked computer with internet access and email
- Printing facilities
- IT support
- Open access, to suit a variety of work patterns
- Ready access to staff
- Security and privacy

The Graduate Research School also offers a regular program of seminars and workshops tailored to the needs of research staff and students. Each week the research community is updated on services, schemes and opportunities. This includes information about research grants, scholarships, fellowships, tenders and consultancies and the seminar series.

For further information on research at Swinburne, please visit our website at: www.swin.edu.au/research/
Telephone: (03) 9214 5223/5412
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 Intelligent Systems and Complex Processes
- Centre for Mathematical Modelling
- Centre for Molecular Simulation
- Centre for Software Engineering

*Key contact: Professor Myles Harding*

Telephone: (03) 9214 8270
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**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, notably the School of Engineering and Science, and the Industrial Research Institute Swinburne (IRIS).

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 four 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
- 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:** Dr Tom Spurling  
Telephone: (03) 9214 5659  
Email: tspurling@swin.edu.au

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**Astrophysics**

The Centre for Astrophysics and Supercomputing hosts the Swinburne Supercluster – over 100 modern Unix workstations in a large Beowulf cluster – and is a regular user of many large astronomical instruments including the Hubble Space Telescope, the Parkes 64 m radio telescope, and the Keck 10 m (the world’s largest optical telescope). State-of-the-art visualisation capability is provided by a virtual reality theatrette.

Major research activities include:

- Pulsar searching and timing.
- Globular cluster origins.
- Protostellar disks.
- Chemical evolution of galaxies.
- Galaxy groups and clusters.
- Galaxy formation.
- The extragalactic distance scale.
- Large-scale cosmological simulations.

**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.
- Cell engineering on ordered artificial structures.
- 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 Engineering and Science

Key contact: Dr 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.
- Neurobiology of learning disorders with particular reference to dyslexia.
- Neurobiology of schizophrenia and Alzheimer's dementia.
- Neurobiological effects of electromagnetic fields.
- Neurobiology of anxiety and mood disorders.
- Psychopharmacology of cognition and disorders of cognition.
- Sensory neuroscience with particular reference to taste and smell.

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

Key contact: Professor Richard Silberstein
Telephone: (03) 9214 8273
Email: rsilberstein@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 on-line 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.
- Information Technology Innovation – provision of solutions to industry for web-based information systems or mobile computing and communications environments.

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 School of Design
- 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 new 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. 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 biological molecules on femtosecond timescales.
- Atom optics experiments, which exploit the wave-like behaviour of ultracold atoms.
- Studies of ultracold molecules.
- 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 surfacing, 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 David Booth
Telephone: (03) 9214 8725
Email: dbooth@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. Emphasis has been on measuring social progress and individual well-being using internationally accepted social indicators.
- Housing studies – by exploring new options for low income housing provision in these times of a declining commitment to public housing and increased policy confidence in private rental housing. Also significant has been research into housing market developments, and the effect of planning deregulation 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:
■ Protostellar disks.
■ Pulsar searches and timing.
■ Globular clusters.
■ Elliptical galaxies.
■ Galaxy groups.
■ Galaxy evolution.
■ Square Kilometre Array Design and Configurations.
■ Very Long Baseline Interferometry.
■ Gravitational lensing and Hydrogen gas in the nearby universe.

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

★ Business
MBus/PhD
Research activities are concentrated in the following disciplines. Examples of recent research are:
Accounting
■ The role of audit competence in the judgement of audit quality from the user’s perspective.
■ Loan project analysis and appraisal.
■ Corporate respectability.
■ Balanced scorecard from an Australian perspective.
■ Ethic and gender differences in accounting students’ perception of their future work environment.
■ Unsystematic risk on share investments.
■ Perceptions of behavioural skills development in an accounting degree.

Economics
■ An evaluation of tight monetary policy as a corrective measure.
■ An evaluation of educational programs.
■ Industry policy, particularly in relation to the automobile industry.
■ Taxation policy as it affects industry and technology.
■ The efficiency of labour market operations in adjusting to problems.

Human Resource Management/Organisation Behaviour
■ The development of an organisational diagnostic consulting tool.
■ Survivor syndrome as an outcome of organisational downsizing.
■ Influencing the changing nature of paid work in the 21st century – an empirical study of Australian call centres.

Further information
Director of Research: Professor Miles Nicholls
School of Business
Telephone: (03) 9214 8434
Email: mnicholls@swin.edu.au
Website: www.swin.edu.au/business
**Business Administration**

DBA/PhD

Existing research projects are organised around three related and partially overlapping streams:
- Innovation and business development.
- Organisation dynamics and change.
- Strategic management and strategic change.

Research topics can be effectively undertaken in areas such as:
- Innovation strategies.
- International competitiveness.
- Managing change.
- Organisational analysis.
- Organisational re-engineering.
- Organisational studies.
- Small business establishment.
- Strategic alliances.
- Strategic management practices.
- Strategic market analysis and research.

Research of an interdisciplinary nature and research that is international, and comparative in the above areas, is encouraged.

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

**Chemical Sciences**

MApSc/PhD

Major research activities include:

- **Biotechnology and Bioprocesses**
  - Biodegradation of lignin-like wastes, including xenobiotic compounds.
  - Fungal processes and bioreactors.
  - Bacterial processing.
  - Environmental microbiology.
  - Enzyme technology.
  - Protein chemistry and peptide synthesis.
  - Structure-function relationships of enzymes.
  - Bioactive compounds from fungi.
  - Macromolecular structures and molecular modelling.
  - Biodegradable plastic polymers.
  - Baculovirus systems in molecular biology.
  - Molecular biology and production of proteins.
  - Virology.

- **Colloid Science**
  - Interaction of fine particles in suspension.
  - Surface hydrophobicity of solids.
  - Advanced composite materials.
  - Biocolloids.
  - Particulate management in environmental science.
  - Adsorption of heavy metals onto inorganic and organic substrates.
  - Water quality and treatment.
  - Studies of micro-porous substances.
  - Recyclable waste eg. plastic, glass, paper.
  - Chemical analysis
    - Analysis of compounds released in aromatherapy.
    - Development of chromatographic techniques.
    - Development of electrophoretic techniques.
    - Development of environmentally friendly analytical techniques.
    - Structure and function of traditional medicine derived from plant material.

Further information
School of Engineering and Science
Telephone: (03) 9214 8372
Email: engsci@swin.edu.au
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.
- Utilising waste tips for methane production.
- Acoustic sound barriers.
- Methods of utilising waste products in new products.

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/PhD

The National School of Design is strongly committed to researching design as a unique form of human activity. Design research within the school is focussed on:

- The technology/design interface, with particular reference to communications media.
- Design for an ageing population.

Cooperative Research Centre (CRC) in Wood Innovations

This government-funded project brings together diverse research expertise in the fields of:
- Microwave electronics, material science, wood science, timber engineering, industrial design, surface engineering, component manufacturing and furniture design.
- The role of the interior designer in responding to the urban sprawl, the increasing density of urban development and the needs of diverse user groups.

Further information
National School of Design
Telephone: (03) 9214 6882 or 6579
Email: nsdenquiry@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.swin.edu.au/agse

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
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Website: http://caia.swin.edu.au

For more information visit www.swin.edu.au/coursefinder
**Industrial Engineering**

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.
- Non-Contract Inspection.
- Polymers.
- Rapid Prototyping.
- Robotics.

Further information

Industrial Research Institute Swinburne (IRIS)

Telephone: (03) 9214 8600

Email: iris@swin.edu.au

Website: www.swin.edu.au/iris

**Information Technology**

MAppSc/PhD

Research Groups include:

Centre for Intelligent Systems and Complex Processes

This centre concentrates on developing and applying:

- Artificial neural networks.
- Evolutionary systems.
- Collective intelligence and dynamical systems techniques to analysing.
- Modelling and optimising a variety of complex processes.

Software Engineering

- Software testing/metrics.
- Component-based development.
- Requirements engineering.
- Software process improvement.

Internet Computing and eCommerce

- Internet Computing and eBusiness environments.
- Teamwork, workflow and software development on the Web.
- Computer-supported cooperative work (CSCW)/Groupware.
- Internet/Web-based computing.
- Distributed systems tools.
- Software development environments.
- Modelling, simulation and visualisation environments.
- Conceptual modelling.
- Distributed systems tools.

Swinburne Computer-Human Interaction Laboratory (SCHIL)

- Human-computer interaction.
- User-interface design and advanced user interfaces.
- Usability engineering methods and tools.
- Information and organisations.

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.

Information Technology Innovation

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

Further information

School of Information Technology

Telephone: (03) 9214 5453/8752

Email: info@it.swin.edu.au

Website: www.it.swin.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 Disease.
  - 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.
- 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.swin.edu.au/gsim

Language and Culture

MA/PhD

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 (1909–1950).
- 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
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Website: www.swin.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.”
Mathematical Sciences
MAAppSc/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.
- Health and Social Statistics.
- Industrial Modelling.
- Mathematical Analysis and Computation.
- Mathematical Biology.
- Numerical Modelling.
- Statistical Modelling in Sport.
- Technology and Mathematics Education.

Further information
School of Mathematical Sciences
Telephone: (03) 9214 8484
Email: vrorke@swin.edu.au
Website: www.swin.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 profusion.
- Characterisation of turbulent swirling flows in an annulus.

Research activities include:
- Top submergence and melting technology including Ausiron process.
- Computer-aided simulation of the heat transfer and fluid flow during gas quenching of steel components.
- Doppler techniques for flow measurements
- Lung aerosol deposition.
- Particle-laden flows and tube bank.
- Turbulence and mixing.
- Human motion kinematics and dynamics.
- Tissue engineering.
- Representation and implementation of technological system models.
- Screw theory and robot motion.
- Development of a probabilistic design toolbox.
- Computation of functions of random variables.
- Axial collapse of thin-walled metal tubes.
- Mechanics of a metal plate cut by a wedge.

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

MA/PhD

Research activities concentrate on the following themes:
- Citizenship and social policy.
- Cities and housing.
- Media and telecommunications.
- Philanthropy and social investment
- The examination of social exclusion, citizenship, media and telecommunication policy and the impact of social policy on issues of housing, democracy, education and communication.

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
  - Auditing democracy in Australia.
  - Australian political parties.
  - Australian populist movements.
  - Industrial disputation.
  - Models of citizenship in Australia.
  - Political biography.
  - Trade union 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.

Psychology

MA/PhD/DPsych

Research is concentrated in the following areas:
- Clinical/counselling outcomes.
- Cross-cultural and cross-ethnic psychology.
- Ethical, legal and forensic issues.
- Health and well-being promotion and outcomes.
- Psychology of new technologies.
- Social cognition.

Example projects include:
- Psychological and sociological predictors of help-seeking.
- Nature and predictors of sexual well-being.
- Cross-cultural studies of humour.
- Cultural exchanges on university campuses.
- Fear of computer crime and its relationship to Internet transaction behaviour.
- Psychosocial adaptation after surgery.
- Immigrant adaptation and identity change.
- New models of stress and coping.
- Autobiographical memory and post-traumatic stress.
- Fathering style and child development.

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

Photonics

MSc/PhD

Swinburne Optics and Laser Laboratories (SOLL)

SOLL is a modern, purpose-built complex for optronics 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.swin.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.swin.edu.au/optics/ciao

Centre for Atom Optics and Ultrafast Spectroscopy
- Ultrafast spectroscopy.
- Atom Optics.
- Quantum information theory.

Current research projects include:
- Real-time molecular dynamics.
- Biological molecules.
- Magnetic atomic optics.
- Ultracold molecules.
- Ultrafast coherence spectroscopy in atoms and molecules.

Further information
Director: Professor Peter Hannaford
Telephone: (03) 9214 5164
Email: phannaford@swin.edu.au
Website: www.swin.edu.au/lasers

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.swin.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.swin.edu.au/optics/ciao

Centre for Atom Optics and Ultrafast Spectroscopy
- Ultrafast spectroscopy.
- Atom Optics.
- Quantum information theory.

Current research projects include:
- Real-time molecular dynamics.
- Biological molecules.
- Magnetic atomic optics.
- Ultracold molecules.
- Ultrafast coherence spectroscopy in atoms and molecules.

Further information
Director: Professor Peter Hannaford
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Email: phannaford@swin.edu.au
Website: www.swin.edu.au/lasers

Psychology

MA/PhD/DPsych

Research is concentrated in the following areas:
- Clinical/counselling outcomes.
- Cross-cultural and cross-ethnic psychology.
- Ethical, legal and forensic issues.
- Health and well-being promotion and outcomes.
- Psychology of new technologies.
- Social cognition.

Example projects include:
- Psychological and sociological predictors of help-seeking.
- Nature and predictors of sexual well-being.
- Cross-cultural studies of humour.
- Cultural exchanges on university campuses.
- Fear of computer crime and its relationship to Internet transaction behaviour.
- Psychosocial adaptation after surgery.
- Immigrant adaptation and identity change.
- New models of stress and coping.
- Autobiographical memory and post-traumatic stress.
- Fathering style and child development.

Further information
Professor Sue Moore
Telephone: (03) 9214 5209
Email: sbsadmin@swin.edu.au
Website: www.swin.edu.au/sbs
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.
■ Ethnicity and migration.
■ Families, marriage and sexuality.
■ Medical sociology and de-institutionalisation.

Further information
School of Social and Behavioural Sciences
Telephone: (03) 9214 5209
Email: sbsadmin@swin.edu.au
Website: www.swin.edu.au/sbs

Technology Related Business Innovation

M Tech/PhD
The Centre for eBusiness and Communication conducts significant investigative projects in fields surrounding the application or impact of technology in electronic business and society.
■ Rapid eBusiness applications development.
■ Management and regulation in electronic business.
■ Technology accessibility and disability.
■ Knowledge management.
■ Learning organisation and technology.
■ Infrastructure analysis.
■ eBanking and finance.
■ eBusiness enculturation.
■ Supply chain.
■ Team focused project management.
■ Electronic enterprise sustainability.
■ Multi-modal industries.
■ eBusiness intermediation and aggregation.
■ Virtual workplace and virtual corporations.
■ Business writing and knowledge creation.
■ Systems approaches to management.
■ Performance drivers in eBusiness.
■ Innovation of value propositions.

Further information
Centre for eBusiness and Communication
Telephone: (03) 9735 6000
Email: adminbus@swin.edu.au
Website: www.id.swin.edu.au/ebusiness
Professional Doctorates

**DBA**

Professional Doctorate 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

The DBA also weaves together theory and practice, developing research capability that is:

- problem/project centred
- industry-based

Further information
Australian Graduate School of Entrepreneurship (AGSE)
Telephone: (03) 9214 8512/5241
Email: agse@swin.edu.au
Website: www.swin.edu.au/agse

**Design**

Professional Doctorate in Design

Campus: Prahran

Duration: 3 yrs FT

Entry requirements: A masters degree, from a recognised tertiary institution, plus a minimum of five years relevant experience. Applicants with other qualifications and relevant experience may also be considered.

This innovative program of advanced study is designed to meet the professional needs of experienced designers in industry and education. 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 entire range of design professions, and are equally relevant to professionals working in, for example, graphic and multimedia design, product and industrial design, and interior and exhibition design.

Further information
National School of Design
Telephone: (03) 9214 6755
Email: NSDenquiry@swin.edu.au

**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.

Further information
School of Social and Behavioural Sciences
Telephone: (03) 9214 5209
Email: sbsadmin@swin.edu.au
Website: www.swin.edu.au/sbs

*This program will be offered in 2004 subject to accreditation by the University and the Australian Psychological Society.
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.

Chemistry
Master of Applied Science
(Computational Chemistry/Biomolecular Design)
Campus: Hawthorn and Distance Education
Note: This course is provided jointly by Swinburne, Northern Territory University, Victorian College of Pharmacy (Monash University) and the University of Tasmania.
Duration: 1 yr FT or 2 yrs PT
Entry requirements: A degree in chemistry from a recognised tertiary institution (or approved equivalent) plus one or two years appropriate experience (this may include an honours year, a graduate diploma or experience in teaching or industry).
The course aims to develop in students: mastery of the broad scientific principles and theory underlying computational chemistry; mastery of software applications used in computational chemistry; a thorough understanding of the methods of computational chemistry and competence in their application.
BUSINESS, INNOVATION AND MANAGEMENT

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 applicants without an approved degree.
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. 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 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 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, Global Trading Issues, and Tools for Quantitative Analysis.

Business Administration
Graduate Certificate of Business Administration
Graduate Diploma of Business Administration
Master of Business Administration (MBA)
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 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. Specialisations in these four key areas are offered through advanced electives and/or an integrating project.

eBusiness and Communication
Graduate Certificate of Business (eBusiness and Communication)
Graduate Diploma of Business (eBusiness and Communication)
Master of Business (eBusiness and Communication)
Campus: Lilydale and/or 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 from a recognised tertiary institution (or approved equivalent) or relevant work experience.

This program offers participants the opportunity to understand the many aspects of eBusiness and eCommerce and to confidently apply their learning to real world problems and projects. They will develop their potential for managing themselves and others in a complex, competitive, intercultural and global environment.
Entrepreneurship and Innovation
Graduate Certificate of Entrepreneurship and Innovation
Graduate Diploma of Entrepreneurship and Innovation
Master of Entrepreneurship and Innovation (MEI)
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 from a recognised tertiary institution (or approved equivalent) and at least four years full-time experience in new business creation. 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 recognises the need to educate intending entrepreneurs and middle managers within existing organisations. The management of innovation is based on three key skills: organisation dynamics, marketing and quantitative assessment, and includes skills such as basic finance and a multi-disciplinary assessment of the commercial feasibility of innovative opportunities.

Executive Administration
Graduate Certificate in Business (Executive Administration)
Campus: Prahran and online

Duration: 1 yr PT

Entry requirements: A degree or diploma 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 course aims to provide high level business knowledge with practical skills applications which are relevant to executive assistants working directly for senior managers. The four core subjects address sound management principles, high level administration skills and knowledge, and advanced information technology skills. A diverse range of subjects are offered for the elective component which allows students to specialise in a particular skill or interest area.

Food, Wine and Tourism Marketing
Graduate Certificate in Business (Food, Wine and Tourism Marketing)
Campus: Hawthorn

Duration: 1 yr PT

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

This course aims to provide students with the knowledge and understanding to apply marketing and management principles to the food, wine and tourism marketing industry within Australia and internationally. Graduates will have the knowledge that will enable them to be responsible for the management of marketing, management concepts and practices, developing, implementing and maintaining strategic competitive advantage.
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.”

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**Human Resource Management**

*Graduate Certificate in Human Resource Management*

*Graduate Diploma of Business (Human Resource Management)*

*Masters 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
- Master: 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.

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**Marketing**

*Graduate Certificate of Business (Marketing)*

*Graduate Diploma of Business (Marketing)*

*Masters of Business (Marketing)*

**Campus:** Hawthorn

**Duration:**

- Graduate Certificate: 0.5 yr FT or 1 yr PT
- Graduate Diploma: 1 yr FT or 2 yrs PT
- Master: 1.5 yrs FT or 3 yrs PT

**Entry requirements:** A degree from a recognised tertiary institution (or approved equivalent) followed by at least two years 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.

Applicants with a degree in marketing followed by at least two years relevant work experience may be admitted to the Graduate Diploma level.

This program offers participants the opportunity to gain specialist knowledge in marketing. Marketing has become one of the most significant and powerful tools in the world of business and its study is relevant to all areas of business life. A knowledge of marketing can help individuals and business organisations understand how to use their resources to the best advantage.

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**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.
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, and prospective business owners and business consultants. 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 FT
Graduate Diploma: 2 yrs FT
Masters: 3 yrs FT

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: 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.

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!”
Computing and Information Technology

**Computing**
Master of Science (Computing) (Honours)
Campus: Hawthorn
Duration: 2 yrs FT or 4 yrs PT
Note: Students may choose to exit the program with a MSc(Computing) after 18 months.
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 Diploma in Information Technology (Information Systems Applications)
Graduate Diploma in Information Technology (Information Systems Development)
Master of Information Technology (Information Systems)
Campus: Hawthorn
Duration: Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1 yr FT or 2 yrs PT
Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) in a non-IT discipline. Applicants with a degree in an IT discipline may enter the program at the Masters level.
The Graduate Diploma programs provide 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 Masters program offers a course of study focusing on the knowledge and skills needed by information systems analysts, designers and developers. It includes advanced topics in system and information modelling, database design and component technology.

**Information Systems (Management)**
Graduate Certificate in Information Systems
Master of Information Systems
Campus: Hawthorn
Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Masters: 3 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 Master of Information Systems/Master of Business Administration (subject to accreditation).

**Information Technology**
Graduate Certificate in Information Technology
Graduate Diploma in Information Technology
Master of Information Technology
Campus: Hawthorn
Duration: Graduate Certificate: 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1 yr FT or 2 yrs PT
Entry requirements: Graduate Certificate: Available to applicants who do not hold an appropriate qualification but who have considerable relevant work experience.
Graduate Diploma: A degree from a recognised tertiary institution (or approved equivalent) in an IT discipline.
Masters: A degree from a recognised tertiary institution (or approved equivalent) in an IT discipline.
The Graduate Certificate 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.

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The Graduate Diploma 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 Masters program is aimed both at recent IT graduates who wish to pursue advanced studies, and at experienced IT professionals who are seeking to update or enhance their skills in specialist areas. Students may choose to undertake one of the specialisation programs in Internet Computing, Software Engineering, and Information Systems, or alternatively choose a broader range of subjects.

**Internet Computing**
Graduate Diploma in Information Technology (Internet Software Development)
Master of Information Technology (Internet Computing)

**Campus:** Hawthorn

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

**Entry requirements:** A degree from a recognised tertiary institution (or approved equivalent) in a non-IT discipline. Applicants with a degree in an IT discipline are eligible to enter at the Masters level.

The Graduate Diploma 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.

The Masters program is aimed both at recent IT graduates who wish to pursue advanced studies, and at practitioners seeking to update or enhance their knowledge in specialist areas. It offers a course of study focusing on the skills and concepts required to develop Internet-based systems. It also includes advanced topics in enterprise systems development (J2EE and .NET), XML and web technologies.

**Software Engineering**

Master of Information Technology (Software Engineering)

**Campus:** Hawthorn

**Duration:** 1 yr FT or 2 yrs PT

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

This program is aimed both at recent IT graduates who wish to pursue advanced studies, and at practitioners seeking to update or enhance their knowledge in specialist areas. It offers a course of study focusing on the development of practical skills and theoretical knowledge in Software Engineering. It focuses on methodologies, tools, techniques and management principles necessary to support the effective and efficient development of high quality software.

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!
### Communication Design

**Graduate Diploma of Design (Communication Design)**

**Course Information Hotline:** 1300 368 777

**Campus:** Prahran and Distance Education

**Duration:**
- 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).

**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 is suitable for designers who wish to achieve higher specialisation in communication design. It will prepare participants to meet the increasing demands of the design industry. In keeping with international practice in both postgraduate design education and the design industry, the program structure is project-based, and will be conducted under the guidance of a design mentor.

### Furniture Design

**Graduate Diploma of Design (Furniture Design)**

**Campus:** Prahran and Distance Education

**Duration:**
- 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).

**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 is suitable for designers who wish to achieve higher specialisation in Furniture Design. It will prepare participants to meet the increasing demands of the design industry. In keeping with international practice in both postgraduate design education and the design industry, the program structure is project-based, and will be conducted under the guidance of a design mentor.

### Industrial Design

**Graduate Diploma of Design (Industrial Design)**

**Course Information Hotline:** 1300 368 777

**Campus:** Prahran and Distance Education

**Duration:**
- 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).

**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 is suitable for designers who wish to achieve higher specialisation in Industrial Design. It will prepare participants to meet the increasing demands of the design industry. In keeping with international practice in both postgraduate design education and the design industry, the program structure is project-based, and will be conducted under the guidance of a design mentor.
**Interior Design**

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

Campus: Prahran and Distance Education

Duration: 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).

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 is suitable for designers who wish to achieve higher specialisation in Interior Design. It will prepare participants to meet the increasing demands of the design industry. In keeping with international practice in both postgraduate design education and the design industry, the program structure is project-based, and will be conducted under the guidance of a design mentor.

**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.
ENGINEERING AND TECHNOLOGY

Air Transportation Management

Graduate Certificate in Air Transportation Management
Graduate Diploma in 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 service and business industries.

Airport Planning, Operation and Management

Graduate Certificate in Airport Planning, Operation and Management
Graduate Diploma in 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.
### CAD/CAM/CIM

Graduate Certificate of Engineering (CAD/CAM)
Graduate Diploma of Engineering (Computer Integrated Manufacture)
Master of Engineering (Computer Integrated Manufacture)

**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:** Each subject is delivered on a modular basis, normally outside business hours, over a two-week period.

**Entry requirements:** A degree or diploma in engineering or applied science 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.

Computer Aided Design (CAD) is defined as a system that uses a computer to assist in the creation or modification of a design. Computer Aided Manufacturing (CAM) is defined as the effective utilisation of computer technology in the management, control and operation of the manufacturing facility through direct or indirect interface with the physical and human resources of the company. Computer Integrated Manufacture (CIM) is an important and effective means of improving productivity, which must be seriously considered by manufacturing companies wishing to become and remain competitive.

### 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.

### Construction Management

Graduate Certificate in Construction Management
Graduate Diploma in 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.

### Industrial Engineering

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

**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:** Each subject is delivered on a modular basis, normally outside business hours, over a two-week period.

**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 in Logistics
Graduate Diploma in 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 who do not hold an appropriate qualification but who have considerable relevant work experience are also eligible to apply.

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

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**Metrology and Quality**

Graduate Certificate in Metrology and Quality

Campus: Distance Education

Duration: 1 yr FT or 2 yrs PT

Entry requirements: A degree in engineering 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)

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: Each subject is delivered on a modular basis, normally outside business hours, over a two-week period.

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.

Network Systems

Graduate Certificate of Science (Network Systems)
Graduate Diploma of Science (Network Systems)
Master of Science (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

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.

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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.”
Risk Management

Graduate Certificate in Risk Management
Graduate Diploma in 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.

Robotics and Automation

Graduate Certificate of Engineering (Robotics and Automation)
Graduate Diploma of Engineering (Robotics and Automation)
Master of Engineering (Robotics and Automation)

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: Each subject is delivered on a modular basis, normally outside business hours, over a two-week period.

Entry requirements: A degree in mechanical, electrical, electronic or manufacturing engineering from a recognised tertiary institution (or approved equivalent).

This program combines the disciplines of electronic, mechanical and manufacturing engineering, computer science and software engineering. It is designed to meet the needs of personnel currently involved in, or intending to be involved in, the robotics and automation industry. The program is also relevant to personnel in a wide range of technologically based industries including rail, shipping, heavy industry, the chemical industry and energy production.
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.

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.

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.

Gestalt Therapy
Graduate Certificate of Social Science (Gestalt Therapy)*
Graduate Diploma of Social Science (Gestalt Therapy)
Campus: Hawthorn and External Venue
Duration: Graduate Certificate: 1 yr PT
Graduate Diploma: 2 yrs PT
Entry requirements: A relevant degree or diploma from a recognised tertiary institution (or approved equivalent) and successful completion of the intensive introductory course offered by the Gestalt Institute. A small number of individuals whose education and experience are deemed to be equivalent may also be admitted.

This course is designed for those working, or aspiring to work, in the mental health and human services fields, including counsellors and psychotherapists, educators and human resource personnel. It aims to provide students with an education in the essentials of Gestalt Therapy theory and practice, as well as support in the development of appropriate skills and competence in its application.

*Subject to reaccreditation
HEALTH AND HUMAN SERVICES

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.

This course provides a broad based approach to counselling, with a focus on skills acquisition and application to a variety of work settings. The program is practical rather than theoretical and deals with a number of important social and cultural factors that impact on work and human relationships.

*Subject to reaccreditation

Integrative Medicine

Graduate Certificate of Applied Science (Integrative Medicine)
Graduate Diploma of Applied Science (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 an approved equivalent). Applicants who do not hold an appropriate qualification but who have considerable relevant work experience may also apply.

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.

Nutritional and Environmental Medicine

Graduate Certificate of Applied Science (Nutritional and Environmental Medicine)
Graduate Diploma of Applied Science (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).

This course aims to give participants the knowledge and skills to provide effective support to families during the pre and post-natal period.
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.

Statistics – Health/Social/Sports
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

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 from a recognised tertiary institution (or approved equivalent).

This course is intended for graduates seeking to utilize 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.

*Subject to Accreditation

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) plus a fourth year of study, 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 relating to 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 will also give students project management skills and the ability to contribute to product and document development.

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 continue 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.

Last year 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’s partner of 11 years, Carolyn Beasley, a novelist, is also completing the Master of Arts (Writing) course. “Doing the Swinburne course together means that we are interested in each other’s study and very supportive of our endeavours. We have different things to offer each other in terms of writing and feedback and we are both happy that we have done this course,” he said.
## 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.swin.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.swin.edu.au/research

### Professional Doctorates

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### Programs by Coursework

#### Applied and Industrial Sciences

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#### Business, Innovation and Management

**Accounting**

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**eBusiness and Communication**

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**Entrepreneurship and Innovation**

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**Food, Wine and Tourism Marketing**

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**Key:**

- D: Day
- E: Evening classes
- W: Weekend classes
- ¥: Mid year entry also available
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### Design

#### Communication Design
- DMCD31 Graduate Diploma of Design (Communication Design) | Prahran | Distance | 1 yr | 2 yrs | 10250 | 32
- DMCD30 Master of Design (Communication Design) | Prahran | Distance | 2 yrs | 4 yrs | 20500 | 32

#### Design Studies
- DMDS31 Graduate Diploma of Design (Design Studies) | Prahran | D | 1 yr | 2 yrs | 10250 | 32

#### Furniture Design
- DMFD31 Graduate Diploma of Design (Furniture Design) | Prahran | Distance | 1 yr | 2 yrs | 10250 | 32
- DMFD30 Master of Design (Furniture Design) | Prahran | Distance | 2 yrs | 4 yrs | 20500 | 32

#### Industrial Design
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- DMID30 Master of Design (Industrial Design) | Prahran | Distance | 2 yrs | 4 yrs | 20500 | 32

#### Interior Design
- DMINTD31 Graduate Diploma of Design (Interior Design) | Prahran | Distance | 1 yr | 2 yrs | 10250 | 33
- DMINTD30 Master of Design (Interior Design) | Prahran | Distance | 2 yrs | 4 yrs | 20500 | 33

#### Multimedia Design
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- DMMD31 Graduate Diploma of Design (Multimedia Design) | Prahran | D | 1 yr | 2 yrs | 10250 | 33
- DMMD30 Master of Design (Multimedia Design) | Prahran | D | 2 yrs | 4 yrs | 20500 | 33

#### Engineering and Technology

#### Air Transportation Management
- MF94 Graduate Certificate in Air Transportation Management | Hawthorn | Distance | n/a | 1 yr | 5200 | 34
- MF95 Graduate Diploma in Air Transportation Management | Hawthorn | Distance | n/a | 2 yrs | 10400 | 34
- MF96 Master of Technology Management (Air Transportation Management) | Hawthorn | Distance | n/a | 3 yrs | 15600 | 34

#### Airport Planning Operation and Management
- MF97 Graduate Certificate in Airport Planning, Operation and Management | Hawthorn | Distance | n/a | 1 yr | 5200 | 34
- MF98 Graduate Diploma in Airport Planning, Operation and Management | Hawthorn | Distance | n/a | 2 yrs | 10400 | 34
- MF99 Master of Technology Management (Airport Planning, Operation and Management) | Hawthorn | Distance | n/a | 3 yrs | 15600 | 34

#### Aviation Human Factors
- M094 Graduate Certificate in Aviation Human Factors | Hawthorn | Distance | n/a | 1 yr | 5200 | 34
- M095 Graduate Diploma in Aviation Human Factors | Hawthorn | Distance | n/a | 2 yrs | 10400 | 34
- M096 Master of Technology Management (Aviation Human Factors) | Hawthorn | Distance | n/a | 3 yrs | 15600 | 34
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*These are the proposed fees for 2004 and are subject to change. They apply to citizens and permanent residents of Australia. International students should refer to the Postgraduate Course Guide for International Students, or visit the International Student website at: www.swin.edu/isu
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Airport Planning, Operation and Management 34
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Applied Media 43
Astronomy 25
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Disaster Management 35
eBusiness and Communication 26
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CourseFinder
For detailed course and subject information visit: www.swin.edu.au/coursefinder

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Swinburne Expo
Royal Exhibition Building
Carlton Gardens

Sunday 31 August 2003
Between 10.00am and 4.00pm

Website: www.swinexpo.com

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www.swin.edu.au/campus_tour