CourseFinder
For detailed course and subject information visit: www.swinburne.edu.au/coursefinder
or ring the Information Hotline 1300 368 777

Postgraduate Information Day
The Atrium, John Street, Hawthorn campus.
Wednesday 12 October 2005, 2.00pm–7.00pm

eNews, Views and Profiles from Swinburne
visit: www.swinke.com

Swinburne’s Virtual Campus Tour
visit: www.swinburne.edu.au/campustour

Postgraduate Information Day  Wednesday 12 October, 2.00pm–7.00pm
Postgraduate Information Day
The Atrium, John Street
Hawthorn campus
Wednesday 12 October 2005
Between 2.00pm and 7.00pm
For further details and registration, visit: www.swinburne.edu.au/postgrad

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

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

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

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

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

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

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

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

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

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

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

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

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

IR Young
Vice-Chancellor and President
Programs by research

Master by Research

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

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

Doctor of Philosophy (PhD)

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

Professional Doctorate

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

Programs by coursework

Graduate Certificate

This is usually an entry-level postgraduate qualification for applicants with several years work experience. It is also an attractive alternative for those without any formal undergraduate qualifications. On successful completion of the Graduate Certificate, students may apply to progress to the Graduate Diploma.

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.

Master

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 41–44, 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.swinburne.edu.au/coursefinder
- Telephone the information hotline on 1300 368 777
- Come to the Postgraduate Information Day at the Atrium, John Street Hawthorn Campus Wednesday 12 October between 2.00 and 7.00 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 that keep pace with change and remain firmly linked to the needs of the future.

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

**Strong links with industry**

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

**Research centres**

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

**Nested suite of programs**

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

**Flexible entry**

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

**Part-time classes**

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

**Scholarships**

Swinburne offers a range of scholarships to postgraduate students.

For further information refer to page 8 in this guide and/or the Swinburne Scholarship website: www.swinburne.edu.au/scholarships

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**Why students choose Swinburne**

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

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

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

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

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

Dan says a highlight of his research has been the chance to work at Swinburne’s MiniFab micro-fabrication facility, managed by IRIS. “MiniFab is an incubator for many start-up technology companies, and as a PhD student it’s very motivating to be in that type of environment.”

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

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

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

Croydon campus
12–50 Norton Road
Croydon Vic 3136

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

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 campus

Swinburne University of Technology
Sarawak campus
Kuching, East Malaysia
www.swinburne.edu.my/
Lilydale campus
Melba Avenue
Lilydale Vic 3140

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

Prahran campus
144 High Street
Prahran Vic 3181

Prahran campus is home to the renowned Faculty of Design which offers a range of communication, industrial, interior, multimedia design, and film and television 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.

Wantirna campus
369 Stud Road
Wantirna Vic 3152

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

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

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


\section*{Accommodation}
Swinburne’s Housing Service provides off-campus options, such as home-away-from-home, private rental/share housing and details on local hostels. There is also on-campus accommodation at our Hawthorn and Lilydale campuses.

\textit{Further information}

\textbf{Apartments:} (03) 9214 5555 (Hawthorn)
\textbf{Student Village:} (03) 9735 9309 (Lilydale)
\textbf{Off-campus options:}
- (03) 9213 6607 (Croydon)
- (03) 9214 8882 (Hawthorn)
- (03) 9215 7105 (Lilydale)
- (03) 9214 6728 (Prahran)
- (03) 9210 1905 (Wantirna)

Website: www.swinburne.edu.au/stuserv/housing

\section*{Child care}
Child care facilities are offered at most Swinburne campuses.

\textit{Further information}

\textbf{Hawthorn:} (03) 9214 8519
\textbf{Lilydale:} (03) 9735 4691
\textbf{Prahran:} (03) 9521 4653/4643
Website: www.swinburne.edu.au/stuserv/childcare

\section*{Financial aid}
A financial adviser can assist with financial counselling including budgeting and student loans.

\textit{Further information}

\textbf{Hawthorn:} (03) 9214 8953
\textbf{Lilydale:} (03) 9215 7105
\textbf{Prahran:} (03) 9214 6734
Website: www.swinburne.edu.au/stuserv/finance

\section*{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 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.

\textit{Further information}

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

\section*{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.

\textit{Further information}

Telephone: (03) 9214 4375
Website: www.ssu.swin.edu.au/postgrad
Admissions and Fees

Application

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

Postgraduate programs by research
Applicants should contact the faculty 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 faculty or from the:
Swinburne Graduate Research School
Telephone: (03) 9214 5412
Website: www.swinburne.edu.au/research

International students
Swinburne welcomes international students into our postgraduate programs. There is a separate course guide for international students, which contains an application form, admission advice and information on tuition fees. To obtain a copy please contact Swinburne International on 1800 897 973, or if calling from outside Australia:
Telephone: + 61 3 8676 7002
Email: international@swinburne.edu.au
Website: www.swinburne.edu.au/international

Applicants intending to undertake a postgraduate research program have their application forwarded to the relevant faculty. Applicants will be required to fill out an Application for Research Higher Degrees Candidature form, which is separate to the form provided by Swinburne International. Applicants are encouraged to make direct contact with the faculty 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 faculty or from the:
Swinburne Graduate Research School
Telephone: (03) 9214 5224
Website: www.swinburne.edu.au/research

Fees for Australian citizens and permanent residents

FEE-HELP
FEE-HELP (Higher Education Loan Programme) has replaced the Postgraduate Education Loans Scheme. FEE-HELP is a government funded loan that helps eligible fee paying students pay their tuition fees. FEE-HELP is available to Australian citizens and holders of a permanent humanitarian visa.

For further information visit: www.swinburne.edu.au/postgrad

Postgraduate programs by coursework
The proposed fees for 2006 are listed on pages 41–44.

Prospective students are advised to contact the relevant faculty 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.

Professional Doctorate programs
For information on fees contact the relevant faculty. See page 20.
Australian Postgraduate Award (APA)
The Department of Education, Science and Training (DEST) offers APAs each year to scholars of exceptional promise in all fields. This scholarship provides a government funded fee-exempt place for a period of two years for a Masters by research degree or three years, with a possible extension of six months, for a Doctorate by research degree. Award holders receive an annual stipend and may also be eligible for other allowances. The current value is $18,837 per annum.

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

Fee Waiver Scholarships
Swinburne’s Higher Education Division and Swinburne Lilydale offer fee-waiver scholarships for a period of two years for a Masters by research degree or four years for a Doctorate by research degree.

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

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

Swinburne University Postgraduate Research Award (SUPRA)
Swinburne offers research awards to outstanding applicants. Students applying for an APA are automatically considered for a SUPRA. SUPRAs are available for a period of two years for a Masters by research degree or three years, with a possible extension of six months, for a Doctorate by research degree. Award holders receive an annual stipend and may also be eligible for other allowances. The current value is $18,837 per annum.

Applying for scholarships
All students applying for candidature in a research degree for 2006 have the opportunity to apply for the CRS, APA, SUPRA or IPRS when filling out the application form. Guidelines for each of the scholarships are available on the web at www.swin.edu.au/research/schols.htm. Current students should contact the Swinburne Graduate Research School on 9214 8744 for details on how to apply.

Applications for the scholarships close on the last Friday in October each year.

All applicants to the PhD, DPsych, DDes, and Masters by research programs will automatically be considered for a Fee Waiver Scholarship and the outcome will be communicated in the letter of offer.
Postgraduate Research at Swinburne

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.

In order to ensure excellence and a challenging collegial environment, Swinburne concentrates its resources into a number of general areas of research in which we believe we have particular strengths:

- Advanced computing and modeling
- Advanced industrial technologies
- Astrophysics
- Biotechnology and bioengineering
- Brain function and cognition
- Entrepreneurship
- New communications technologies
- Optics and applied laser technology
- Social sustainability and well-being

Within these areas, Swinburne offers a variety of exciting programs in which students can undertake specialist research. These are listed in the following pages.

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)
Research activities

**Astrophysics and Computational Sciences**

Centre for Astrophysics and Supercomputing

General research focus:
- Observational and theoretical astrophysics
- Supercomputer simulations

Research topics include the study of:
- Cosmology and the formation of the universe
- The evolution of galaxies
- active galactic nuclei and high-energy astrophysics
- Globular cluster origins
- Disks and jets around stars
- Pulsar searching and timing

Further information
Director: Professor Matthew Bailes
Telephone: +61 3 9214 8782
Email: mbailes@swin.edu.au
Website: www.swinburne.edu.au/astronomy

**Centre for Molecular Simulation**

Research topics include the study of:
- 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

Further information
Director: Professor Richard Sadus
Telephone: +61 3 9214 8773
Email: rsadus@swin.edu.au
Website: www.swinburne.edu.au/ict/research

**Atom Optics and Ultrafast Spectroscopy**

Centre for Atom Optics and Ultrafast Spectroscopy (CAOUS)

Research topics include the study of:
- Integrated atom optics
- Magnetic mirror for cold atoms
- Magnetic lattices
- Atomic coherences
- Ultrafast coherence spectroscopy in atoms and molecules
- Applied optics: fibre optics sensors, industrial and medical
- Imaging
- Quantum information and quantum adiabatic computation

Further information
Director: Professor Peter Hannaford
Telephone: +61 3 9214 5164
Email: phannaford@swin.edu.au
Website: www.swinburne.edu.au/feis

**Bioengineering**

Research in the areas of:

1-D interaction of biomolecules and cells with flat surfaces
- Study of effective, non-denaturating technologies for immobilisation of biomolecules in static (e.g. biosensors) and dynamic (e.g. microfluidics) biodevices

2-D interaction of biomolecules and cells with patterned surfaces
- Design and fabrication of ‘smart’ micro/nano-engineered bio-active surfaces that combinatorially probe the response of biomolecules for micro/nano-array applications

3-D interaction of biomolecules and cells with patterned surfaces
- Design and fabricate dynamic hybrid nanodevices comprising linear protein molecular motors working on micro/nanofabricated surfaces
- Study intelligent-like behaviour and algorithms used by microorganisms in their survival and search strategies, probed in microfabricated structures

Further information
Professor Dan Nicolau
Telephone: +61 3 9214 5083
Email: dnicolau@swin.edu.au
Website: www.swinburne.edu.au/lss/ebc

**Aviation**

Research topics include the study of:
- Airline operational research including decision making/problem solving and managing change
- Line operational safety audit and crew performance markers
- Safety culture and development

Further information
Mr Stephen Fankhauser
Telephone: +61 3 9214 5259
Email: sfankhauser@swin.edu.au
Website: www.swinburne.edu.au/aviation
Business

Research activities are concentrated in the following disciplines:

Accounting
- The role of women in university management and in the accounting profession
- Financial planning and preparation for retirement
- Governance in sporting clubs
- Issues surrounding IPOs
- Comparative environmental accounting – Malaysia and Australia
- Budgeting processes in local government
- Performance measurement and management in local government
- Approaches to accounting education

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

Human Resource Management/ Organisation Behaviour
- Lecturers’ responses in the culturally diverse classroom
- The nature of work and the labour process in call centres
- Cultural change in Malaysian public sector organisations
- Critical literacies
- Intersectoral management in higher education
- Systems theory and managerial competences
- Creating an entrepreneurial culture in public organisations
- Action-learning teams in lean manufacturing environments
- Best value reform in local government
- HR issues in multi-cultural management
- Developing an organisational diagnostic tool based on Archetypes and unconscious processes
- Organisation spirituality – a psychological perspective

International Business and Languages
- Research activity management using mixed mode modelling
- Cross-cultural sports marketing strategies and planning
- From assimilation to ethnic business – The emergence of multiculturalism in Australia
- Research into the ceramic tile industry in Australia

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

Marketing
- A study of improvisation during the start-up phase of micro-businesses
- Banking channels: Online and bank branch
- Goods and services differences in television advertising: An Australian replication
- Baby boomer housing research study
- The PR area and the strategic application to the ethical management of complex organisations
- Use of intelligent agents in Modelling Energy Sectors
- Mixed mode modelling in change management

Further information
Australian Graduate School of Entrepreneurship (AGSE)
Telephone: +61 3 9214 5855
Email: agse@swin.edu.au
Website: www.swinburne.edu.au/agse

OR
Dr Everarda Cunningham
Higher Education, Lilydale
Telephone: +61 3 9215 7316
Email: ecunningham@swin.edu.au
Website: www.ld.swin.edu.au

Six months in the wilds of Peru’s Amazon gave Biotechnology PhD student Jacqui McRae a greater appreciation of indigenous cultures and their contribution to medicine.

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

Jacqui’s voluntary trip to Peru formed part of her unique research project that is promising to shed new light on antibacterial properties found in traditional indigenous plants.

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

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

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

Jacqui is currently conducting further research using laboratories at Swinburne and CSIRO, who funded part of her PhD scholarship at Swinburne.
Poor quality products should be a thing of the past, thanks to new quality assurance software developed by PhD engineering researcher Clint Steele.

The software program, known as Robustica, will allow engineers to factor quality into a product design before it is manufactured, making for greater efficiency and increasing the probability of it performing as expected.

Robustica uses a mathematical probabilistic design method called Robustification to trace variability from the product’s constituent parts to its operation, detecting any design faults before the product is manufactured. It means that making small changes to design specifications can result in large improvements in quality.

Clint’s interest in probabilistic design was sparked during his undergraduate degree in engineering, where he was exposed to different manufacturing methods and the variability of product design.

But the urge to discover and create new technology inspired him to consider postgraduate study. Now Clint is applying that interest in his PhD, which is focusing on methods to better understand variability in manufacturing methods.

“The research has been a great opportunity. It has really developed my ability to think creatively and improved my writing skills. It’s quite satisfying to be able to fully understand such a specialised area – and that’s the appeal of conducting long-term research.”

Eventually, Clint plans to distribute the unique Robustica software online, and he is currently working on refining the program before he commercialises the software.
Design

National Institute for Design Research (NIDR)
The NIDR is strongly committed to researching design as a unique form of human activity. Design research in the Institute is currently focussed on:
- Cooperative Research Centre (CRC) in Wood Innovations.
  This government-funded project brings together diverse research expertise in the fields of industrial design, microwave electronics, material science, wood science, timber engineering, surface engineering, component manufacturing and furniture design.
- The technology/design interface, with particular reference to communications media.

Further information National Institute for Design Research Telephone: +61 3 9214 6421 Email: nidenquiry@swin.edu.au

Education

Research is concentrated in the following areas:
- Program evaluation
- Integration of ICT technology
- Intergenerational reasons for choice of school
- Facilitating access to ICT in elderly populations

Further information Dr Everarda Cunningham Telephone: +61 3 9215 7316 Email: ecunningham@swin.edu.au Website: www.ld.swin.edu.au

Entrepreneurship and Innovation

Existing research projects are organised around related streams:
- Entrepreneurship theory and practice
- Intuition, intentionality and values
- Indigenous entrepreneurship
- Social entrepreneurship
- Corporate entrepreneurship
- Entrepreneurship education
- Youth entrepreneurship
- 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: +61 3 9214 5855 Email: agse@swin.edu.au Website: www.swinburne.edu.au/agse

Communication Technology

Centre for Advanced Internet Architectures (CAIA)
Research topics include the study of:
- Broadband IP access architectures
- IP network resilience and security
- IP mobility

Further information
Director: Associate Professor Grenville Armitage Telephone: +61 3 9214 8373 Email: garmitage@swin.edu.au Website: www.caia.swinburne.edu.au

Engineering Mathematics

Research groups include:

Industrial Modelling
- Efficient loading of container freight
- Collaboration with CRC for clean power from lignite
- Risk aversion in finance and industry
- Productivity improvement in furniture manufacturing

Mathematical Analysis and Computation
- Unified Fourier transform methods for the asymptotic analysis of differential equations
- Matrix inverse eigenvalue problems and applications
- Analytical solutions of non linear partial differential equations
- Moving boundary flow problems
- Finite element tidal models

Mathematical Biology
- Biological control of insects
- Interacting agricultural economies
- Stochastic modelling of predator-prey systems

Mathematics Education
- Educational role of technology including graphical calculators
- Student assessment using technology
- Effective use of computer algebra systems

Further information
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Dr. Jim Harris, PhD graduate and now a research engineer at the Industrial Research Institute Swinburne (IRIS) grabbed the opportunity to work with lasers, a new and emerging technology at the time he began his postgraduate work.

As a consequence, the new laser technology Dr. Harris developed as a Swinburne PhD student will significantly improve the precision cutting of thick steel for the heavy engineering and mining sector, delivering significant cost and quality benefits.

“Swinburne and in particular IRIS provided the physical resources with significant assistance and feedback coming from my supervisor, Prof. Milan Brandt.

Since finishing his PhD, Dr. Harris has been working on several projects the most significant of which is the refurbishing of LP (low pressure) steam turbine blades for the electrical power industry.

“We have perfected the process of repairing (laser cladding or coating) the blades while they are still on the turbine spindle. This required the development of a new compact, fiber delivered laser cladding head (currently undergoing patent application) that would fit inside the turbine itself.

Each blade we repair is worth approximately A$20,000 to replace and there are two rows of 96 blades in each turbine. There are eight turbines in this power station and we can implement significant money and time savings with this unique method of repair.”
Swinburne’s strong reputation in polymer microtechnology attracted accomplished electrical engineer and entrepreneur Micah Atkin to enrol in a Doctorate of Philosophy (PhD).

Micah’s ambition has always been to align his research, work experience and studies with the goal of starting a commercial venture. And at Swinburne, the 31-year-old is doing just that.

With undergraduate degrees in electronic engineering and science, Micah had embarked on a career in engineering design. But he realised microtechnology would revolutionise chemical and biochemical analysis, and researching this is one of his aims for his Swinburne PhD.

Micah is not letting his entrepreneurial skills waste while he studies. He brought together a group of graduates from the Masters in Entrepreneurship and Innovation to launch MycroLab, a start-up scientific instrumentation company. MycroLab enables the transfer of applications from laboratory to biochip.

Micah has won a clutch of business planning competitions and scholarships. In 2001 he won the best business plan at Swinburne’s Industrial Research Institute, the Swinburne Venture Cup Prize and the Chancellor’s Prize. Last year he won the Victoria Fellowship and travelled to Canada, USA, Europe, the UK and New Zealand studying microfluidic manufacturing.

A member of Swinburne’s Leadership Entrepreneurial Attributes Development program, he has attended short courses in project management, leadership, professional communication, design for mass production and commercialising ventures.
Two years ago Julia Ellis thought that after she graduated with honors in psychophysiology from Swinburne she would go straight into the workforce. But her supervisor had other plans and encouraged her to do her Doctorate of Philosophy (PhD) at the university’s Brain Sciences Institute.

Julia’s PhD research on how brain function is affected by Alzheimer’s and Parkinson’s diseases may pave the way for improved treatment and diagnosis. She is currently at the Austin Hospital's Department of Nuclear Medicine and Centre for Positron Emission Tomography.

“My PhD studies focus on the cholinergic system and cognitive function in healthy elderly people, people with Alzheimer’s disease and people with Parkinson’s disease.

“I am particularly interested in how this neurotransmitter system is altered in these disease states and how it might change with age and also following treatment designed to target this system in the brain.

“To investigate this I’m conducting research combining cognitive testing with brain imaging.”

She was awarded the Ian Scott Fellowship last year by one of the largest independent health research funds in Australia, the Australian Rotary Health Research Fund. This allows her to completely commit to finishing her PhD without having to take on any other paid work.

And now that she’s started her PhD she doesn’t regret deferring her entrance to the workforce one bit. “I chose to go on to postgraduate study because I really enjoyed conducting research during my honors year and wanted to extend the knowledge I had already gained.”

Micro-Photonics

Centre for Micro-Photonics (CMP)

The Centre is strategically divided into two research programs in the areas of biophotonics and nanophotonics.

Biophotonics
- Fibre-optical nonlinear microscopy
- Multi-photon microspectroscopy for early cancer detection
- Two-photon fluorescence resonance energy transfer imaging
- Image reconstruction through tissue-like media
- Near-field tweezers
- Femtosecond laser tweezers

Nanophotonics
- Three-dimensional bit data storage in photorefractive polymers
- High density optical storage based on quantum dots
- Three-dimensional microfluidic devices
- Fabrication of photonic crystals in polymers
- Development of nanoparticles and quantum dots

Further information
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Sensory Neuroscience Laboratory (SNL)

Major research activities into the neurophysiology and psychophysics of sensation, perception, attention and fatigue, in the areas of smell, taste, vision, somatosensory and performance, including:
- Development and modification of olfactory, taste and texture delivery systems
- Correlation of subjective and objective measures of flavour and texture responses
- Effects of attention and fatigue on human performance e.g. driving
- Eye movement performance in sport, health and disease
- Virtual reality imaging in sports training
- Effects of fatigue on human performance
- Effects of whole body vibration on human performance

Further information
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Swinburne Centre for Neuropsychology

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

- Neurochemistry of intelligence and cognitive functioning
- Biological basis of personality, intelligence and emotional intelligence
- Neuropsychological assessment of clinical and forensic disorders (depression, anxiety, OCD, PTSD, adult and juvenile sex offenders)
- Understanding trauma
- Emotional Intelligence
- Psychopharmacology and clinical drug trials using herbal compounds
- Psychological assessment (development of psychological tests)
- Illicit drugs and driving, roadside sobriety testing, saliva testing. Clinical trials using illicit substances. Relationship between cannabis, alcohol, amphetamines, ecstasy and other illicit substances on driving and police enforcement
- Basic and applied brain imaging and psychophysiology
- Electromagnetic radiation on the brain

Further information
Director: Professor Con Stough
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Philanthropy and Social Investment

Asia-Pacific Centre for Philanthropy and Social Investment

Established in 2001, the Asia-Pacific Centre for Philanthropy and Social Investment is a unique initiative, pioneering the education of the Australian and international community in the practice of philanthropy, grant-making and corporate social investment.

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

Further information
Director: Dr Michael Liffman
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Psychology

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

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

Further information
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Centre for Psychological Research on Prevention, Adaptation and Therapeutic Interventions (PATH)

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

Further information
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Centre for Applied Social Psychology and Organisational Research (CASPOR)

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

Further information
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Social Sciences and Arts

Research activities are concentrated in the following areas:

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

Emerging Technologies and Society
The Australian Centre for Emerging Technologies and Society (ACETS) conducts research into the social dimensions and implications of new technologies. The main areas of research include:
- Public understandings and attitudes towards new technologies
- New technology entrepreneurs
- Biotechnology and society
- Digital cultures

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

Philosophy and Cultural Inquiry
- Complexity theory
- Contemporary European philosophy
- Environmental philosophy
- History and philosophy of science
- Metaphysics
- Philosophy of social science
- Philosophical psychology
- Social, political and cultural philosophy

Social Research

Institute for Social Research (ISR)
The Institute for Social Research (ISR) offers excellent opportunities for postgraduate study in:
- Cities and housing (social housing, urban studies, social planning, environment, family policy and welfare)
- Citizenship and government (politics, immigration, civic infrastructure, privatisation, consumer credit, youth policy)
- Media and communications (media and communications policy, media history, digital divide, wired communities, mobile communications, broadcasting, publishing)
- Philanthropy and social investment.
- Action research.

Topics include:
- The digital divide and information poverty
- Civic formation, multi-ethnicity and pluralism
- Immigration, refugees and human rights
- Parliamentary democracy and electoral politics
- Political history and political change
- The future of media and communications
- New media and intellectual property
- Affordable housing
- Homelessness
- Public sector reform
- Public-private partnerships, economic planning and consumer credit
- Community renewal, consultation and social indicators
- Philanthropy, social investment, grant-making and social enterprise
- Action research, stakeholder engagement, facilitation and systems change.

Further Information
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Social Research Activities

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.”
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
- Borders, national loyalty and globalisation
- Ethnicity and migration
- Environment and population
- Families, marriage and sexuality
- Medical sociology
- Social implications of new technologies
- Health and health policy
- Body, culture and society

Further information
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Statistics
Research activities are concentrated in statistical modelling and its application to problems in industry, business, engineering or science, sports and statistical education.

Research activities are concentrated in the following areas:
- Social and health statistics
- Statistical modelling in sport
- Business research
- Educational research

Further information
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Website: www.ld.swin.edu.au

Technology Related Business Innovation
Studies are concentrated in the following centres:

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

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

Further information
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Writing
Research is concentrated in the following areas:
- Creative writing
- Curriculum writing
- Business writing

Further information
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### Professional Doctorates

**DBA**

*Doctor of Business Administration (DBA)*

*Campus:* Hawthorn

*Duration:* 2.5 yrs FT or 5 yrs PT

*Entry requirements:* A Master of Business Administration degree from a recognised tertiary institution (or approved equivalent), 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
- Organisation: Managing complexity, uncertainty and change.

**Design**

*Professional Doctorate in Design*

*Campus:* Prahran

*Duration:* 3 yrs FT or 6 yrs PT

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

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

**Psychology**

*Professional Doctorate of Psychology (Clinical Psychology)*

*Professional Doctorate of Psychology (Counselling Psychology)*

*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 counselling or clinical psychology.

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

Julie studied undergraduate psychology at Swinburne while working full-time, and then dedicated a year to doing her honours. “I was determined to do well, but I also wanted to enjoy the year, so I made sure I was organised so I had time for social things as well as study,” Julie said.

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

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

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

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

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

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

Biotechnology
Graduate Diploma of Science (Biotechnology)
Master of Science (Biotechnology)
Campus: Hawthorn
Duration: Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 2 yrs FT or 4 yrs PT
Entry requirements: A three-year science degree in biological or chemical sciences from a recognised tertiary institution (or approved equivalent).
This program aims to provide an understanding of the fundamental principles of the key areas of biotechnology, including molecular biology, bioinformatics, medical, industrial, forensic and agricultural biotechnology.

Cardiovascular Perfusion
Graduate Diploma of Science (Cardiovascular Perfusion)
Master of Science (Cardiovascular Perfusion)
Campus: Online
Duration: Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1.5 yr FT or 3 yrs PT
Entry requirements: A degree or diploma from a recognised tertiary institution (or approved equivalent).
This program provides general biomedical science and technology subjects, forming an introduction to the physiological and theoretical aspects of the field of cardiovascular perfusion with the Masters level providing scope for more specialist study and major project work.

Good Manufacturing Practices
Graduate Certificate of Science in Good Manufacturing Practices
Graduate Diploma of Science in Good Manufacturing Practices
Master of Science in Good Manufacturing Practices
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 science or engineering degree from a recognised tertiary institution (or approved equivalent). Applicants who do not hold an appropriate qualification but who have substantial relevant industry experience may be admitted to the course, subject to approval of the selection officer.
This course covers the code of conduct referred to as the ‘code of Good Manufacturing Practice’ (cGMP) which is crucial in the development and manufacturing of new products for the pharmaceutical, biotechnology, veterinary, medical and related industries.

Sustainability
Graduate Certificate in Sustainability
Campus: Hawthorn/Online
Duration: 1 yr PT
Entry requirements: A degree or diploma from a recognised tertiary institution (or approved equivalent). Applicants with at least five years relevant work experience may also be eligible.
This course was developed in response to a strong industry demand for staff with skills and knowledge in the field of sustainability. The course addresses the key sustainability challenges in terms of environmental, economic and social issues at a global, national and local level.
Accounting
Graduate Certificate of Accounting
Graduate Diploma of Accounting
Master of Accounting
Master of Accounting (Honours)

Campus: Hawthorn

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

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

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

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

Campus: Hawthorn

Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1.5 yrs FT or 3 yrs PT or 13 months intensive
Honours: 2 yrs FT or 4 yrs PT

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

The Swinburne MBA not only offers the opportunity to acquire contemporary management knowledge and skills, it also provides students with the ability to apply that knowledge in an innovative, creative and entrepreneurial way. The overarching themes of entrepreneurship, innovation and international business address the transitional realities of moving from the old to the new economy in four key areas: Leadership, Strategy, eBusiness, and Finance. A focus in these four key areas is offered through advanced electives and/or an integrating project.

Applied Business
Graduate Certificate of Business (Applied Business)

Campus: Hawthorn

Duration: 0.5 yr FT or 1 yr PT

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

This course has been designed to meet the needs of mature age students who wish to broaden the skills already gained in an undergraduate program, or are seeking to develop vocational knowledge and skills in a new professional area. The course consists of four subjects including: Marketing, Management Communication, Tools for Quantitative Analysis, and one of Global Trading Issues, Strategic Human Resource Management, or Leadership and Management.
For Vince King, a Swinburne Master of Business Administration has added an entrepreneurial dimension to his work at DaimlerChrysler.

“As an engineer coming from a technical background, I wanted to develop my business and problem-solving skills and there were many postgraduate business courses to consider but Swinburne’s MBA stood out because of its entrepreneurial focus.

“It also covered a greater breadth of subjects and offered more variety and suited me to greater extent with work commitments.”

Vince initially enrolled in the Graduate Certificate of Business in Applied Business, which was a stepping stone to the MBA at Swinburne’s Australian Graduate School of Entrepreneurship he is undertaking now.

Only six months away from completing the MBA, Vince says the course has provided insight into change management strategies and the psychology of management he applies to his role as Senior Manager Warranty DaimlerChrysler Australia, South Pacific.

“I manage a team of 15 in my current role so it’s been valuable to look at issues like change management and innovation from a different perspective. It’s a more analytical skills set. The course teaches you how to interpret and analyse the data.”

Like many postgraduate students, the teamwork and collaboration involved in his course has been highly beneficial.

Vince says much of his daily work involves liaising with customers and external suppliers, processing dealer claims as well as managing the performance objectives of DaimlerChrysler’s dealerships — an integral component of the company’s overall marketing strategy.

He’s been able to directly apply the research in his MBA to his role.

“The current topic I’m researching is looking at what’s called ‘process innovation’ and how it applies to DaimlerChrysler’s own sales and aftersales strategies and CRM (customer relationship management) systems. The focus of my research is on improving these networks, the end result of this being customer satisfaction and brand recognition. Armed with his Swinburne MBA, Vince says he aims to take the next step and add real value to both the company and his own experience.
Human Resource Management

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

Campus: Hawthorn

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

Entry requirements: A degree 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 (at least five years) and an appropriate level of responsibility in industry are also eligible to apply.

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

International Business

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

Campus: Hawthorn

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

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

This course develops the technical, practical, analytical and creative skills to support a successful career in international business. International business has become another a venue for all organisations to grow and its study is relevant to all industry sectors.

Master of Business in eBusiness and Communication student Fay Presbury grasped the chance to update her skills and apply the newest technology to her role as a Nursing Director for NETS based at The Royal Women’s Hospital.

Working within the Newborn Emergency Transport Service (NETS) – Victoria’s emergency service for critically ill newborns, and having been in the nursing industry for thirty years, Fay has seen a massive shift in the use of technology, moving closer towards a paperless system in hospitals.

“I found the eBusiness part of the course directly related to my work, but I think in every profession technology has developed to such an extent that it is integral to how the business runs – hospitals are now being run as a business in order to survive.”

“Having the chance to update my skills and theory has been exciting. With NETS in particular, we are moving increasingly towards paperless methods of handling communication and developing a new web-based system where we can track patient records. Teleconferencing is also becoming more important in terms of getting a range of specialists together virtually to discuss patients.”

With the course covering many different aspects of e-business and management, Fay finds it strikes the right balance between technical and practical and provides valuable networking opportunities.

“I just love the classroom, and the interaction with other students, particularly from other professions and international students who bring such a diverse amount of knowledge and experience to the program,” she says.

The course’s flexible approach also means that Fay, who works full-time, can study online and attend classes part-time at Swinburne’s Lilydale campus every second Saturday.

“I like the fact that you can adapt most of the subjects so they relate to your work. I had a lot of management experience but limited computer experience, but this course is so flexible that it suits the students’ needs.”

“I think the course is ideal for mature age students like myself as it can be adapted for any age group who are wishing to expand their knowledge in business and the related technology.”
Marketing
Graduate Certificate of Business (Marketing)
Graduate Diploma of Business (Marketing)
Master of Business (Marketing)
Master of Business (Marketing)(Honours)
Campus: Hawthorn
Duration: Graduate Certificate: 0.5 yr FT or 1 yr PT
Graduate Diploma: 1 yr FT or 2 yrs PT
Masters: 1.5 yrs FT or 3 yrs PT
Honours: 2 yrs FT or 4 yrs PT
Entry requirements: A degree from a recognised tertiary institution (or approved equivalent). 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 a minimum of 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.

Professional Practice
Graduate Certificate of Business (Professional Practice)
Campus: Hawthorn
Duration: 0.5 yr FT or 1 yr PT
Entry requirements: A degree in any discipline from a recognised tertiary institution (or approved equivalent). Applicants who do not hold an appropriate qualification but who have substantial relevant industry experience may be admitted to the course, subject to approval of the selection officer.

This course aims to enhance graduate employability by further developing the skills and attributes sought by employers, and facilitating the transfer of the learning to the workplace. It also aims to raise students’ awareness of their own professional strengths and weaknesses, assist with career planning, and instil a desire for continuous lifelong learning.

Project Management
Graduate Certificate of Business (Project Management)
Campus: Hawthorn
Duration: 0.5 yr FT or 1 yr PT
Entry requirements: A degree or diploma in a related discipline from a recognised tertiary institution (or approved equivalent) and at least three years relevant work experience, or five years of relevant work experience in a responsible position in industry or business.

This course provides high-level knowledge with practical skill applications that are relevant to project practitioners and project managers. The four core subjects address sound project management principles, high-level project implementation and execution skills and knowledge, and project integration management skills, essential for the role of the project manager.

Quality Management
Graduate Certificate of Business (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 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 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 of Business (Small Business Management)
Campus: Hawthorn
Duration: 1 yr PT
Entry requirements: A degree or diploma from a recognised tertiary institution (or approved equivalent) and at least three years work experience. Applicants who do not hold an appropriate qualification but who have five years relevant experience in a responsible position in industry or business are also eligible to apply.

This course has been designed to meet the needs of small business owners, prospective business owners and consultants to small business. It educates participants in the requirements of small business and enhances their chances of success in their chosen business field.
Strategic Foresight

Graduate Certificate of Science (Strategic Foresight)
Graduate Diploma of Science (Strategic Foresight)
Master of Science (Strategic Foresight)

Campus: Hawthorn

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

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

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

Supply Chain Management

Graduate Certificate of Business (Supply Chain Management)

Campus: Hawthorn

Duration: 0.5 yr FT or 1 yr PT

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

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

Michael Ventura’s Diploma of Business (Supply Chain Management) course adds direct value to his role as the purchasing officer for the Metropolitan Fire Brigade (MFB).

“The focus of my role at MFB is to negotiate with suppliers in order to source and purchase a diverse range of goods, materials and services for departments throughout the MFB.

“The subjects I’ve completed so far deal with logistics, supply and quality so it’s directly relevant and plays an important role in ensuring the MFB is receiving the best service possible and at the lowest cost.”

The flexible nature of the assignment-based course means that Michael has the best of both worlds, enjoying the freedom to balance work, study and family life. “A great benefit of the course is that it’s assignment based which gives you more freedom to balance other commitments.

I have chosen to study the course over two years although it can be completed in a year — it’s flexible enough to suit your needs.”

Every student brings a different perspective to the supply chain, says Michael, which makes the study experience more valuable. “The teachers continually ask for examples and encourage class involvement, and I think this makes learning more enjoyable.”

Assignments focus on practical tasks and visits to companies’ distribution centres for a true glimpse into how the supply chain is managed in different industries.

“I would recommend the course to anyone involved in logistics, supply chain or purchasing who wants to further develop their personal and professional skills.

“Personally I think the qualification makes you stand out from the crowd and make you more appealing to your current or future employer.”
Computing and Information Technology

Computing

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

Campus: Hawthorn

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

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

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

Information Systems

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

Campus: Hawthorn

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

Entry requirements: Entry is available to applicants who have significant relevant business experience, normally at least two 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 with business administration or accounting which provide advanced skills and knowledge across the complex areas of both business and information systems.

Information Technology – Graduate Certificate

Graduate Certificate in Information Technology

Campus: Hawthorn

Duration: 6 months FT or 1 yr PT

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

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

Information Technology – Graduate Diploma

Graduate Diploma in Information Technology

Campus: Hawthorn

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

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

This program 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).
Information Technology – MIT
Master of Information Technology
Master of Information Technology (Information Systems)
Master of Information Technology (Information Technology Management)
Master of Information Technology (Internet Computing)
Master of Information Technology (Software Engineering)

Campus: Hawthorn
Duration: Masters: 1 yr FT or 2 yrs PT

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) in an IT discipline. Applicants with a degree in a non-IT discipline generally undertake the Graduate Diploma in Information Technology prior to commencing the Masters program.

This Masters of Information Technology 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 a broad range of subjects, or alternatively one of the specialisation programs: Information Systems, Information Technology Management, Internet Computing, or Software Engineering.

Information Technology – M Tech
Master of Technology (Information Technology)
Master of Technology (Information Systems)
Master of Technology (Internet Computing)
Master of Technology (Software Engineering)

Campus: Hawthorn
Duration: Masters: 1.5 to 2 yrs FT or 3 yrs PT

Entry requirements: A degree or graduate diploma in a non-information technology discipline from a recognised tertiary institution or approved equivalent. Applicants who do not hold a degree but have substantial relevant industry experience or who have undertaken relevant training courses may enter the M Tech by first enrolling in the Graduate Certificate in Information Technology.

The Master of Technology (Information Technology) provides a comprehensive postgraduate program in information technology targeted towards those who wish to add IT knowledge and skills to their prior learning.

The program allows students to choose between a broad-based IT program, and several programs that are designed to cover a specialist area of Information Technology: Information Systems, Internet Computing, or Software Engineering.

For senior technical consultant, Jerôme DeClerk an introduction to Lotus 1-2-3 towards the time he finished high school, was a life-changing moment. Currently studying the Masters of Information Systems at Swinburne, Jerôme is aiming to complete his final two subjects in second semester this year.

“It was the ease with which you could develop macros to help people do their jobs that made me think about a career in the IT industry.”

After completing an undergraduate course in computing and information systems, Jerôme chose the postgraduate course at Swinburne after doing comparisons with similar courses. “The Swinburne course appeared to have the best cross section of subjects, Swinburne is also a very easy campus to attend by either car or train.

The course has covered a broad range of issues, not just in IT, but also in the business domain, there is a good mix of subjects provided by both the Faculty of Information and Communication Technologies, and the Australian Graduate School of Entrepreneurship (AGSE), the supervision (and guest speakers) has been typically boosted by the industry experience of the lecturers.”

The Australian company Jerôme works for, Koukia Pty Ltd, has developed a new general insurance software application. He is currently working on integrating an existing eCommerce application that one of the company's clients is using, with the new software application they have built. This project involves the coordination of four companies with engineers working at five different locations.

“I believe I do have far more to offer my current employer, however a key reason for doing this course has been to protect and boost my own set of skills to be ready for whatever eventuates in the job market.

People working in IT related industries are very aware of the changing landscape of our profession. Outsourcing, off shoring, downsizing, etc…is currently effecting many people and will continue to do so, which is why being prepared to switch jobs and/or industries is almost a necessity.”
Design

Communication Design

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

Campus: Prahran

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

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

This program offers advanced understanding of how communication design projects, including branding programs and information design, are developed and executed in contemporary design practice. Students gain insight into business strategic planning from the client’s perspective, allowing them to develop an awareness of client’s needs in relation to design services. The program challenges participants to refine design deliverables to an advanced level, and gives guidance in how to present and document design proposals in a creative, professional, and visually effective way.

Industrial Design

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

Campus: Prahran

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

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

This program provides graduates with dynamic national and international career opportunities designing innovative products. Students are challenged to explore a variety of presentation and communication techniques including digital modeling and model making utilising a wide range of industry software and workshop based prototyping facilities. New materials and manufacturing techniques are explored with a view to creating product concepts for the future. The creative and technological thrust of the program is supported by consideration of commercial factors, professional practice, consumer knowledge, and ethics.

Interior Design

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

Campus: Prahran

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

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

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

*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.
Multimedia Design

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

Campus: Prahran

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

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

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

Product Design Engineering

Graduate Certificate of Design (Product Design Engineering)
Graduate Diploma of Design (Product Design Engineering)
Master of Design (Product Design Engineering)

Campus: Prahran

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

Entry requirements: A degree in engineering from a recognised tertiary institution (or approved equivalent). A portfolio is also required. Applicants who have completed an undergraduate degree in product design engineering will be eligible for exemption from the first two semesters of the program.

This course aims to produce graduates who are able to work as leaders of new product development engineering and design teams. People with an engineering qualification interested in the development of innovative human-centred products will be interested in this course. The course covers aspects of the design methodology including: conceptual processes, creative tools, management strategies and research skills for innovation in design and a solid understanding of the impact of information and communications technology on design practice.

*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.

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

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

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

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

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

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

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

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

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

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

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

Campus: Off-campus by 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 areas of airport planning and design, airport operational management and airport commercial management. In addition, the program is designed to have considerable application for personnel in related technologically based industries including civil and mechanical engineering, airlines and air traffic control as well as service industries and regulatory authorities.

Airport Planning, Operation and Management

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

Campus: Off-campus by Distance Education

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

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

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

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

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

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

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

### Disaster Management

*Graduate Certificate in Disaster Management*
*Graduate Diploma in Disaster Management*

**Campus:** Off-campus by 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 4360:2004 Risk Management Standard. The ISO9000 series and the World Health Organisation (WHO) HACCP standards are also integrated into the delivery of the program.

### Industrial Engineering

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

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

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

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

### Logistics

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

**Campus:** Off-campus by 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 apply.

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

### Manufacturing Technology

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

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

**Entry requirements:** A four year degree in mechanical, manufacturing, electrical or electronic engineering from a recognised tertiary institution (or approved equivalent). Applicants with other tertiary qualifications and relevant industry experience will also be considered.

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


**Metrology and Quality**

Graduate Certificate in Metrology and Quality

**Campus:** Off-campus by Distance Education

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

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

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

**Microelectronic Engineering**

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

**Entry requirements:** A degree in electronic engineering, computer engineering, communications/telecommunications engineering or a four-year Bachelor of Science (Honours) degree in an appropriate field, or an equivalent qualification.

This program addresses all aspects of microelectronic technology and aims to provide engineers with the necessary skills and practical experience to satisfy the requirements of the microelectronics industry. An important feature of the course is the opportunity it provides for students to design their own integrated circuits.

**Microsystem Technology**

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

**Campus:** Hawthorn

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

**Entry requirements:** A degree in engineering or 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.

A life-long love affair with every aspect of aviation, is the fulfillment of a childhood dream for Flight Safety Executive, Clinton Piadasa. Currently pursuing the Master of Technology in Aviation Human Factors, Clinton can contribute his considerable skill to an area that has increasingly taken centre stage in the media spotlight in recent times as the travelling public struggle to make sense of the perils of air travel and airports.

“I did my initial degree at Massey University School of Aviation in New Zealand, graduating with a Bachelor of Aviation (Flight Crew Development). I was always interested in aviation and the Faculty of Engineering and Industrial Sciences at Swinburne has excellent master programs in Aviation Human Factors, and Air Transportation Management.”

Aircraft incident investigation is also an area which interested Clinton, who decided to further investigate the impact of air-travel disasters on the travelling public by doing further study.

He has recently been selected to receive a research grant from the Civil Aviation Safety Authority (CASA), under the auspices of Swinburne, to look into pilot selection and training.

“The postgraduate course is very comprehensive. I was particularly interested in the human factors and air transportation modules, as these are taught by well known industry professionals from Australia and internationally who ensure the program is up-to-date with the latest best practices in the aviation/aerospace industry globally.”

Completing the course at Swinburne has enabled Clinton to contribute even more to his organisation by applying the principles and practices learned from other parts of the industry in the areas of human factors and aircraft incident investigation.

Currently based in Singapore working with Singapore Airlines, Clinton believes his formal qualifications and work experience put him in a good position to take on a management role within the airline industry.
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.

**Network Systems**

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

Campus: Hawthorn

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

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

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

**Risk Management**

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

Campus: Off-campus by 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.


**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.

**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.

**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

**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.
A career change after 20 years as a primary school teacher, was a significant gamble for family therapist, Michelle Kornberg. But armed with some detailed planning and a Graduate Diploma of Social Science (Human Services – Counselling) from Swinburne, Michelle felt prepared to take on the challenge.

“Luckily everything I learnt during the time I was teaching, I was able to apply to my post-teaching career of counselling, things like being a good listener, problem solving, observing, showing the way, just learning how to deal with human beings, it really was like a logical extension of what I was already doing.”

For Michelle, completing the Graduate Diploma gave her a taste for what she wanted to specialise in due to the varied and thorough nature of the course.

“The Swinburne course was a great overview of the whole gamut of psychological services on offer, I made sure I combined the study with some fieldwork in telephone counselling which I really enjoyed, so with the combination of those two things I realised counselling was the direction in which I wanted to go.”

Michelle gained vital work experience with a range of help-line telephone services like, Parent Line, Men’s Line and Suicide Line, which helped her understand the nature of counselling work and the possible effects it can have on the counsellor.

Michelle has recently returned from a trip to Poland and Israel where she accompanied a group of Jewish Australians seeking to trace their family’s journeys through the Holocaust. Named The March of the Living, Michelle was acting as the group’s counsellor and support person.

“This was an extremely confronting thing for these young people to experience, there were many highs and lows during the time, but essentially it was an incredibly rewarding experience.”

Michelle further added to her postgraduate qualifications with a Graduate Diploma of Social Science in Family Therapy, she is also the President of CAPAV (Counsellors’ and Psychotherapists’ Association of Victoria) the professional body for counsellors in Victoria.
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 (APS).
Graduates without an approved psychology major are advised to consider enrolment and completion of a psychology single units of study sequence in order to meet entry requirements.
This course is an APS accredited fourth year psychology program and 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
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 or health statistics.
Multimedia

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

Campus: Hawthorn

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

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

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

Multimedia Design

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

Campus: Prahran

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

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

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

*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.
Action Research
Graduate Certificate of Social Science in Action Research
Campus: Prahran or external venue
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 substantial relevant industry experience may be admitted to the course, subject to approval of the selection officer.

This course will provide participants with the conceptual and theoretical skills to facilitate or carry out competent, practice-based action research. The course is aimed at the government, community and not-for-profit, business, evaluation and international and development sectors whose personnel require contemporary skills in action research. Its generic approach will be relevant to those working in human services, education, agriculture, environment, industry, the arts and management.

Applied Media
Graduate Certificate of Arts (Applied Media)
Graduate Diploma of Arts (Applied Media)
Master of Arts (Applied Media)
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) or relevant experience. Students are expected to be computer literate and to have Internet access outside Swinburne.

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

Commercial Radio
Graduate Diploma of Arts (Commercial Radio)
Campus: Hawthorn
Duration: 1 yr FT

Entry requirements: A degree from a recognised tertiary institution (or approved equivalent) or substantial experience in radio or related media industries.

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

Communications
Master of Arts (Communications)
Campus: Hawthorn
Duration: 1.5 yrs FT or 3 yrs PT

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

This advanced media and telecommunications course provides students with specialised knowledge at the cutting edge of communications culture. Students gain skills in media and telecommunications policy analysis, cultural theory and textual analysis, production, writing and journalism, new communications technology, and marketing.
There was a time when Claire Scott believed securing a position in the media industry was as difficult as breaking into “a walled garden”. That was until she started her Graduate Diploma of Arts in Applied Media.

Claire has always been interested in media and after completing an undergraduate degree in media and communications at Swinburne, she decided to enrol in the graduate diploma with the view of progressing to a Master of Arts in Applied Media.

“It was a great move as the postgraduate course covers academic areas I hadn’t done before, plus it places emphasis on work experience with students assigned mentors currently working within the media industry.

“The networking and placements have given me the opportunities to develop industry connections and to produce and publish my own work.

Claire’s original passion in media was for print and radio journalism but her postgraduate study has opened her eyes to new possibilities.

“Lately I’ve been very interested in online and convergent journalism. These look at the software used on websites to present journalism in different forms.”

“Swinburne’s course contents reflect current trends in the media industry and emerging study areas such as convergent communication.”

Claire already has a solid practical background in print and radio journalism to draw on. She has had work stints at the Herald Sun and also at ABC Radio and the Ballarat Courier. “It exposed me to the ever changing nature of the industry and helped break down the scary nature of the career for me.”

And she still has more work experience to do as part of her Graduate Diploma.

Combining practical experience with study has given Claire confidence of a future in media and she hopes to gain a cadetship in a regional area working in radio, television or on a newspaper.

“Now I feel a lot more confident about my own ability to become part of it."
### Course information summary

#### Professional Doctorates

<table>
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<th>Course code</th>
<th>Course title</th>
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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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### Course Information Summary

**Swinburne Postgraduate Course Guide 2006**

Course Information Hotline: 1300 368 777

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### Professional Practice

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### Computing and Information Technology

#### Computing

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### Design

#### Communication Design

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#### Industrial Design

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#### Interior Design

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#### Multimedia Design

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**Engineering and Technology**

**Air Transportation Management**

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**Airport Planning Operation and Management**

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**Aviation Human Factors**

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**Construction Management**

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**Disaster Management**

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**Logistics**

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**Manufacturing Technology**

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**Metrology and Quality**

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<th>Duration</th>
<th>Fees</th>
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**Microelectronic Engineering**

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**Microsystem Technology**

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**Network Systems**

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**Risk Management**

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<th>Study mode</th>
<th>Duration</th>
<th>Fees</th>
<th>AS*</th>
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*These are the fees for 2006 and are subject to change. They apply to Australian and New Zealand citizens and holders of a permanent humanitarian visa. International students should refer to the Postgraduate Course Guide for International Students, or visit the Swinburne International website at: www.swinburne.edu/international
Postgraduate Information Day
The Atrium, John Street
Hawthorn campus
Wednesday 12 October 2005
Between 2.00pm and 7.00pm
For further details and registration, visit:
www.swinburne.edu.au/postgrad
CourseFinder
For detailed course and subject information visit: www.swinburne.edu.au/coursefinder or ring the Information Hotline 1300 368 777

Postgraduate Information Day
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visit: www.swinburne.edu.au/campustour

Postgraduate Information Day  Wednesday 12 October, 2.00pm–7.00pm