Swinburne Postgraduate Course Guide
Coursework and Research Degrees for the Year 2002

Swinburne Locations
Map not to scale

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

Swinburne Postgraduate Information Evening
Tuesday 9 October 2001
4.00pm – 7.00pm
Hawthorn Town Hall
360 Burwood Road, Hawthorn
(Melway reference 45 D10)

Course enquiries
1300 368 777
Visit our website
www.swin.edu.au

Swinburne University of Technology

August 2001
CM07
Welcome to Swinburne

Swinburne University of Technology has a rich and enviable record as a provider of quality, career-oriented education for both undergraduates and postgraduates.

Swinburne’s strong vocational emphasis and its close links with business and industry ensure that our postgraduate programs keep pace with change and remain firmly linked to the needs of the future. The University’s approach to applied research plus relevant coursework programs, and a firm commitment to postgraduates and their careers, have earned Swinburne a reputation as a university of distinction.

Much of Swinburne’s research is concentrated in our specialist centres, which are noted for their industry and institutional links, community service and multidisciplinary approach. Graduates who have worked in these centres are widely recognised for the contribution they are making to Australian and international industry, business and society through the solving of important practical problems by applied, interdisciplinary research. These people bear testimony to our standards of excellence and ensure the continuation of our proud tradition. We hope that after reading this guide you choose to become part of that tradition.

J G Wallace
Vice-Chancellor
The Qualifications

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 (MAppSci)
- Master of Arts (MA)
- Master of Business (MBus)
- Master of Design (MDes)
- Master of Engineering (MEng)
- Master of Information Technology (MInfTech)

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

Professional Doctorate
Swinburne offers postgraduate students the opportunity to undertake a professional doctorate in a number of specialised fields. Unlike a Doctor of Philosophy, students of Professional Doctorates are required to complete both coursework and research components. Professional Doctorates include:

- Professional Doctorate of Business Administration (DBA)
- Professional Doctorate in Counselling Psychology (DPsych)
- Professional Doctorate in Design (DDes)
- Professional Doctorate in Health Psychology (DPsych)
- Professional Doctorate in Strategic Foresight (DStratFors)

Programs by Coursework

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

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

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

Admission with Advanced Standing
Graduates with good results in a relevant postgraduate course may be eligible to apply for admission with ‘Advanced Standing’. Students receive credits for some or all subjects already studied, thereby reducing the time taken to complete a qualification.

How to use this Course Guide

The Postgraduate Course Guide provides an overview of the postgraduate courses available at Swinburne.

To locate a specific course, consult the Course Information Summary on pages 3 to 5, and identify the course title and page reference you require. Alternatively, choose one of the colour coded study areas listed below and browse through that section for a course which may interest you.

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

If you require more detailed information:

- Visit the Course and Subject Database website at: http://pandoraplus.swin.edu.au/guide
- Complete the Brochure Order Form at the back of the Guide;
- For general information telephone the information hotline on 1300 368 777;
- For specific information contact the School/Institute on the number provided at the end of each entry;
- Come to the Postgraduate Information Evening on Tuesday 9 October between 4.00pm and 7.00pm.
# Program Information Summary

**Programs by Coursework**

## Applied and Industrial Sciences
- **Astronomy**
  - Graduate Certificate: Online, 1 yr, C, 0.5 yr, C
  - Graduate Diploma: Online, 2 yrs, C, 1 yr, C
  - Master: Online, 3 yrs, C, 1.5 yrs, C
- **Computational Chemistry/Biomolecular Design**
  - Master: Online, 2 yrs, C, 1 yr, C

## Business, Innovation and Management
- **Accounting and Finance**
  - Graduate Certificate: D/W, 1 yr, C
  - Graduate Diploma: D/W, 2 yrs, C
- **Applied Business**
  - Graduate Certificate: E, 1 yr, C, 0.5 yr, C
  - Master: F, 3 yrs, C, 1.5 yrs, C
- **eBusiness and Communication**
  - Graduate Certificate: F, 1 yr, C
  - Graduate Diploma: F, 2 yrs, C, 1 yr, C
- **Entrepreneurship and Innovation**
  - Graduate Certificate: D/E, 1 yr, C
  - Graduate Diploma: D/E, 2 yrs, C
- **Executive Administration**
  - Graduate Certificate: E/W, 1 yr, C
  - Master: D/E, 3 yrs, C
- **Flexible Delivery**
  - Graduate Certificate: Distance, 2 yrs, C
- **General Management (MBA)**
  - Graduate Certificate: D/W/E, 1 yr, C, 0.5 yr, C
  - Master (MBA): D/W/E, 3 yrs, C, 1 yr intensive, Cl
- **Human Resource Management**
  - Graduate Certificate: E, 1 yr, C
  - Graduate Diploma: E, 2 yrs, C
  - Master: E, 3 yrs, C
- **International Education**
  - Graduate Certificate: D/W/F, 0.5 yr, C
- **Marketing**
  - Graduate Certificate: W, 1 yr, C
  - Graduate Diploma: W, 2 yrs, C
  - Master: W, 3 yrs, C
- **Quality Management**
  - Graduate Certificate: E, 1 yr, C
  - Master: D, 1 yr, C
- **Strategic Foresight**
  - Graduate Certificate: D, 1 yr, C
  - Graduate Diploma: D, 1 yr, C

## Computing and Information Technology
- **Electronic Commerce Systems**
  - Graduate Certificate: D/E, 1 yr, C, 0.5 yr, C
  - Graduate Diploma: D/E, 2 yrs, C, 1 yr, C
- **Information Systems Applications**
  - Graduate Certificate: D/E, 1 yr, C, 0.5 yr, C
  - Graduate Diploma: D/E, 2 yrs, C, 1 yr, C
- **Information Systems Development**
  - Graduate Certificate: D/E, 1 yr, C, 0.5 yr, C
  - Graduate Diploma: D/E, 2 yrs, C, 1 yr, C
- **Information Systems**
  - Master: E, 3 yrs, C, 2 yrs, C
- **Information Technology**
  - Master: E, 2 yrs, C, 1 yr, C
- **Internet Software Development**
  - Graduate Certificate: D/E, 1 yr, CH, 0.5 yr, C
  - Graduate Diploma: D/E, 2 yrs, C, 1 yr, Cl

*Closing Dates: Applications are welcome at any time. For the latest closing dates, visit: [www.swin.edu.au/postgrad/](http://www.swin.edu.au/postgrad/)*
# Course Information Summary

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## Subject Information Summary

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<td>D/E</td>
<td>3.5 yrs</td>
<td>C</td>
<td>1.5 yrs</td>
</tr>
<tr>
<td>Multimedia</td>
<td>Graduate Certificate $\uparrow$</td>
<td>D/E</td>
<td>1 yr</td>
<td>C</td>
<td>0.5 yrs</td>
</tr>
<tr>
<td></td>
<td>Graduate Diploma $\uparrow$</td>
<td>D/E</td>
<td>2 yrs</td>
<td>C</td>
<td>1 yr</td>
</tr>
<tr>
<td></td>
<td>Master $\uparrow$</td>
<td>D/E</td>
<td>3 yrs</td>
<td>C</td>
<td>1.5 yrs</td>
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<tr>
<td>Multimedia Design</td>
<td>Graduate Certificate</td>
<td>D</td>
<td>1 yr</td>
<td>C</td>
<td>0.5 yrs</td>
</tr>
<tr>
<td></td>
<td>Graduate Diploma</td>
<td>D</td>
<td>2 yrs</td>
<td>C</td>
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<tr>
<td></td>
<td>Master</td>
<td>D</td>
<td>4 yrs</td>
<td>C</td>
<td>2 yrs</td>
</tr>
<tr>
<td>Social Sciences and Arts</td>
<td>Graduate Certificate</td>
<td>E</td>
<td>1 yr</td>
<td>C</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Graduate Diploma</td>
<td>E</td>
<td>2 yrs</td>
<td>C</td>
<td>1 yr</td>
</tr>
<tr>
<td>Commercial Radio</td>
<td>Graduate Diploma</td>
<td>D</td>
<td>–</td>
<td>–</td>
<td>1 yr</td>
</tr>
<tr>
<td>Communications</td>
<td>Master</td>
<td>E</td>
<td>3 yrs</td>
<td>C</td>
<td>1.5 yrs</td>
</tr>
<tr>
<td>Convergent Communications</td>
<td>Master</td>
<td>E</td>
<td>3 yrs</td>
<td>C</td>
<td>1.5 yrs</td>
</tr>
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</table>

## Programs by Research

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration</th>
<th>HECS Exemption</th>
<th>Scholarships Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master (by research)</td>
<td>4 yrs</td>
<td>H$\uparrow$</td>
<td>17-22</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>6 yrs</td>
<td>H$\uparrow$</td>
<td>17-22</td>
</tr>
</tbody>
</table>

* HECS Exemption: Scholarships may be available.*

**Closing Dates:** Applications are welcome at any time. For the latest closing dates, visit: www.swin.edu.au/postgrad/
Croydon campus

12-50 Norton Road
Croydon Vic 3136
Telephone: 61 3 9210 1100

Croydon offers TAFE diploma and certificate courses in the areas of business and management, computing and information technology, electronics, hospitality and tourism, and health and human services. It also offers pre-apprenticeship and apprenticeship course in building and construction, and a wide variety of short courses.

The campus is located a short walk from the Croydon station and shopping centre in the foothills of Mt Dandenong. Eastland Shopping Centre is a five kilometre drive or a two-stop train journey away, providing extensive shopping, and restaurants. The No. 755 bus which services the area between Croydon and Ferntree Gully stations, passes by the door.

Croydon campus is also home to the Industry Development Centre which is a high quality, purpose-built conference centre offering a wide range of meeting spaces, related services and equipment.

Hawthorn campus

John Street
Hawthorn Vic 3122
Telephone: 61 3 9214 8000

Hawthorn, Swinburne’s original campus, is home to the central administration, many of its undergraduate and postgraduate programs, research institutes/centres, a campus of the TAFE Division and English Language Centre (ELICOS). It is also the site of many of Swinburne’s research and training centres. The campus is located seven kilometres east of the city, and is easily accessible by train and tram. It is situated in the heart of Hawthorn and is close to restaurants, cafes and shops. Students enjoy an extensive library, bookshop, cafeterias, and sports centre.

Over recent years development has included new TAFE buildings, on-campus student accommodation and a multi-deck carpark. In 1999 the state-of-the-art Australian Graduate School of Entrepreneurship building and further residential accommodation opened, and in 2000 the new library extension was completed providing improved library facilities for students and staff.

Healesville campus

237 Maroondah Highway
Healesville Vic 3777
Telephone: 61 3 5957 1800

Situated at the top end of the Yarra Valley, Swinburne’s campus at Healesville offers a wide range of courses and subjects to meet community needs. There is a special focus on small business, computing and office administration. Courses in horticulture, agriculture, art and design, indigenous studies and tourism are also offered.

Small Business Victoria – First Place, a Victorian government initiative, is located at the Healesville campus providing a number of services for small business including information on licensing requirements, counselling, and a small business bookshop.

Lilydale campus

Melba Avenue
Lilydale Vic 3140
Telephone: 61 3 9215 7000

The Lilydale campus is set in a picturesque 24 hectare rural setting with panoramic views across the Lilydale Lake to the foothills and ranges of the Yarra Valley. The state-of-the-art campus has been established to provide for the TAFE and higher education needs of Melbourne’s outer-east. It is situated 40kms east of Melbourne and is located within 20 minutes walking distance of a transport hub with access to rail and bus networks. Lilydale offers a range of undergraduate and postgraduate programs. Multimodal learning is a feature of course delivery at Lilydale. Traditional methods of learning are augmented by a range of independent learning methods designed to capitalise on the benefits offered by computer and media technology.

The TAFE Division offers diplomas and certificates in business and management, information technology, multimedia, horticulture, hospitality and tourism.
Prahran campus

144 High Street
Prahran Vic 3181
Telephone: 61 3 9214 8000

Prahran campus is home to the renowned National School of Design, which offers a range of graphic, industrial, interior/exhibition, and multimedia design courses at undergraduate and postgraduate level. Prahran also offers TAFE programs in areas such as business, social sciences, visual arts, hospitality and tourism and is soon to offer eCommerce programs.

The campus is ideally situated in cosmopolitan Prahran close to the market, shops and cafes. It is five kilometres south of the city, and easily accessible by train, tram or bus. Prahran is small and friendly with a mixture of modern and historic buildings. Major redevelopment have been undertaken on the campus, including an Arts/Multimedia building, a building housing social sciences, library, student facilities and cafeteria, and a new performing arts complex.

Wantirna campus

369 Stud Road
Wantirna Vic 3152
Telephone: 61 3 9210 1100

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 through to Health and Human Services.

Wantirna offers an innovative approach to education via dual qualification programs; giving students the opportunity to achieve both a diploma and a degree. The current courses available are the Advanced Diploma of Business Accounting and the Advanced Diploma of Business Marketing with direct entry into the final two years of the Bachelor of Business at the Lilydale campus.

Located just a short walk from the campus is the Knox City Shopping Centre where most facilities can be found including: extensive shopping, banks, a post office, restaurants, a cinema complex and bowling alley. The campus is easily accessible via the many buses that terminate at the Centre.

Swinburne Sarawak Institute of Technology campus

In 2000, Swinburne established Swinburne Sarawak Institute of Technology in Kuching, East Malaysia. Swinburne Sarawak will provide seamless multisectoral tertiary education in Engineering (computer systems, electronics and mechatronics) and Business (information systems and marketing).

There will also be a variety of English language and preparatory programs.

Swinburne’s vision is to develop the Sarawak campus as a multi-sectoral, multicampus, private higher education institution operating entirely within the context of Sarawak, Malaysia and the local region. The successes will be reinvested in the work of Swinburne Sarawak and the community in which it operates.

Far left: An artist’s impression of the proposed campus in Kasuma.

Laem Chabang School of Engineering (Swinburne Tummasiri campus)

Swinburne has undertaken its largest offshore venture by establishing a campus in Thailand. It is recognised as the first of its kind between a Thai company and an Australian university. In collaboration with a Thai company Technology Supply Group, Swinburne established the Laem Chabang School of Engineering.

The School provides two year diploma programs in the fields of engineering (mechanical, electronics, and computer systems) and information technology and a range of industry programs to enterprise and industry sectors in the industrial estates.

The diploma programs represent the first two years of a degree program available through Swinburne University of Technology. The final two years (or less in the case of information technology) can be completed at Swinburne in Australia.
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 are wishing to upgrade your skills, increase your career opportunities or change career direction, Swinburne has a range of postgraduate programs which keep pace with change and remain firmly linked to the needs of the future.

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

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

**Nested Suite of Programs**
Several disciplines offer suites of programs (graduate certificate, graduate diploma and masters) which enable students the flexibility of exit points. Suites are available in a number of disciplines including General Management, Information Technology, Information Systems, Entrepreneurship and Innovation, International Management, Risk Management, Multimedia Design and Design Studies.

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

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

**Scholarships**
Swinburne offers a large range of scholarships to postgraduate students. For further information refer to page 10 in this guide and/or the Swinburne Scholarship Program website: [www.swin.edu.au/scholarships](http://www.swin.edu.au/scholarships)
Accommodation

Housing Office
Swinburne’s Housing Office provides off-campus options, such as Home-Away-from-Home, private rental/share housing and details on local hostels. A Housing Adviser will assist you in deciding which type of accommodation will best suit your needs and financial situation. Advice on living costs and tenancy issues is also available.

Further information
Apartments: (03) 9214 5555 (Hawthorn)
Student Village: (03) 9215 7000 (Lilydale)
Off-campus options: (03) 9213 6607 (Croydon)
(03) 9214 8882 (Hawthorn)
(03) 9215 7105 (Lilydale)
(03) 9214 6728 (Prahran)
(03) 9210 1905 (Wantirna)

Hawthorn Apartments
The apartments located on Swinburne’s Hawthorn campus comprise either two or three bedrooms. The apartments are well appointed and feature:
- Bedrooms furnished with single beds.
- Built-in desk and ergonomic chair.
- Gas heating.
- Kitchens with stove, oven and fridge.
- Dining table and chairs.
- Laundry facilities.
- Lounge suite and coffee table.
- Individual apartment and bedroom locks.
- Security entrance.

Lilydale Student Village
The Student Village at Swinburne’s Lilydale campus is located on the foreshore of Lilydale Lake and provides a tranquil and secure environment for campus life and study. The apartments are a short walk from academic buildings, leisure facilities and public transport connections.

The Village comprises twenty-six furnished apartments. Each apartment contains:
- Four separately keyed bedrooms.
- Kitchen.
- Lounge/study room.
- Laundry and storage locker.

Sixty-four bedrooms have ensuite bathrooms and forty have twin-share bathrooms. A number of ensuite apartments have wheelchair access.

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

Further information
Hawthorn: (03) 9214 8519
Lilydale: (03) 9735 4691
Prahran: (03) 9521 4653/4643

Financial Aid
A financial adviser can assist with financial counselling including budgeting and student loans. For further information:
Hawthorn: (03) 9214 8953
Lilydale: (03) 9215 7105
Prahran: (03) 9214 6734

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

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

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

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

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

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

Further information
Telephone (03) 9214 5455
Email: sskinner@swin.edu.au
**Application**

**Postgraduate Programs by Coursework**
Application should be made directly to Swinburne on the official application form in the centrefold of this publication. Alternatively, a form can be obtained by contacting the school listed at the end of each course entry. Please refer to the Course Information Summary on pages 3-5 for the appropriate closing date. Some courses also have a mid-year intake.

**Postgraduate Programs by Research**
In the first instance, applicants should contact the school in which they wish to undertake their research, to discuss whether supervision is available for their proposed research topic. Application forms can be obtained either from the relevant school or from the:

Swinburne Graduate Research Centre
Telephone: (03) 9214 5412
Website: www.swin.edu.au/research/postgrad.htm

Applications for postgraduate programs by research can be made at any time of the year.

**International Students**
Swinburne welcomes international students into our postgraduate programs. The programs that are available to international students are indicated in the Course Information Summary on pages 3-5 of this Guide. There is a separate course guide for international students which contains an application form, admission advice and information on tuition fees. To obtain a copy please contact the International Student Unit on (03) 9214 8647, or if calling from outside Australia:

Telephone: +61 3 9214 8712 or +61 3 9214 8647
Email: isuengq@swin.edu.au

**Fees for Australian Citizens and Permanent Residents**

**Postgraduate programs by coursework**
Prospective students are advised to contact the relevant school for further information on course fee schedules.

**PhD and Masters by research**
For Masters and PhD programs by research, Swinburne offers a number of HECS-exempt places for local Australian students, as well as fee-waiver places for international students. Candidates are also required to pay a General Service Fee that amounts to approximately $280 plus GST per annum full-time.

**Professional Doctorate programs**
For information on fees contact the relevant school.

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**Scholarships**

**Chancellor's Research Scholarships (CRS)**
Swinburne offers four premier scholarships to outstanding students for research leading to the degree of Doctor of Philosophy. Each CRS will carry a stipend of $25,000 (tax free), will be HECS free, and will involve a period of up to six months residence in a collaborating laboratory at one of the world’s leading universities. Further information is available at: swin.edu.au/research/schols/chancellors.htm

**Australian Postgraduate Awards (APA with Stipend)**
The Department of Education, Training and Youth Affairs (DETYA) offers Australian Postgraduate Awards (APAs) each year to scholars of exceptional promise in all fields. The value is adjusted annually to keep pace with the cost of living. The current value is approximately $17,071 per annum.

**Swinburne University Postgraduate Research Awards (SUPRAs)**
Swinburne offers research awards to outstanding applicants. Students applying for the Australian Postgraduate Awards are automatically considered for a SUPRA.

**International Postgraduate Research Scholarship (IPRS)**
Funded and administered by DETYA, this scholarship covers tuition fees and health care costs for prospective international students in Doctoral or Masters programs.

**Swinburne International Postgraduate Scholarships**
These scholarships cover up to 100% of the fees for international students. They are available for students studying in any area of the University’s research programs.

**Ansett Postgraduate Scholarship**
This scholarship funds travel to any Ansett Airlines destination. Available to postgraduate students, it is offered subject to Ansett’s ongoing participation in the scheme.

**Applying for Scholarships**
Application forms for Chancellor’s Research Scholarships (CRS), Australian Postgraduate Awards (APA), Swinburne University Postgraduate Research Awards (SUPRA) and International Postgraduate Research Scholarships (IPRS) can be obtained by contacting staff at the Graduate Research Centre, or visiting the website at: www.swin.edu.au/research/schols.htm

Applications close on 31 October each year.

**Applications for Swinburne International Postgraduate Scholarships should be made directly to the head of the relevant school or research institute.**
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.

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

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

Kerry Pratt
Pro Vice-Chancellor (Research)

...recent research developments have focused on some of the world’s most exciting and relevant areas of technological advancement.

Swinburne Graduate Research Centre

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

Amongst the extensive facilities offered to postgraduate research students, through the Graduate Research Centre, are:

- Individual work spaces, including carrel and filing cabinet
- A fully networked computer with internet access and email
- Printing facilities
- IT support
- Open access, to suit a variety of work patterns
- Ready access to staff
- Security and privacy

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

For further information on research at Swinburne, please visit our website at: www.swin.edu.au/research/
Telephone: (03) 9214 5223/5412
Swinburne has a strong research culture which concentrates on collaborative and applied research for which we have achieved national and international recognition.

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

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

**Advanced Computing and Modelling**

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

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

Associated areas:
- Centre for Astrophysics and Supercomputing
- Centre for Intelligent Systems and Complex Processes
- Centre for Mathematical Modelling

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

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**Advanced Manufacturing Technology**

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

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

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

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

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

**Key contact:** Professor Elias Siores  
Telephone: (03) 9214 5207  
Email: esiores@swin.edu.au
Astrophysics
The Centre for Astrophysics and Supercomputing hosts the Swinburne Supercluster – over 100 modern Unix workstations in a large Beowulf cluster – and is a regular user of many large astronomical instruments including the Hubble Space Telescope, the Parkes 64m radio telescope, and the Keck 10m (the world’s largest optical telescope). State-of-the-art visualisation capability is provided by a virtual reality theatrette.

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

Associated areas:
- Centre for Astrophysics and Supercomputing

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

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

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

Associated areas:
- Brain Sciences Institute
- Centre for Biomedical Instrumentation
- Neuropsychology Laboratory
- Sensory Neuroscience (SNL)

Key contact: Professor Richard Silberstein
Telephone: (03) 9214 8273
Email: rsilberstein@bsi.swin.edu.au

Colloid and Biocolloid Technology
Colloids and biocolloids are small particles with unique properties arising from their high surface area, with biocolloids being of biological origin. Colloid and biocolloid technology is very much an interdisciplinary subject, combining the studies of physical chemistry with other fields such as biotechnology, microbiology, biology and physics.

Some examples of processes that rely heavily on the application of colloidal systems are water quality and treatment, enzyme technologies, ore flotation, detergency, bioremediation, food processing, soil conditioning, oil recovery and environmental disaster management. Understanding the way that small particles and surfaces interact with each other in colloidal systems is of great importance to these and many other processes.

At Swinburne, colloid and biocolloid technology is being applied to a suite of both fundamental and applied studies, many of which are in response to an industry-identified issue, or problem that requires expertise in this area.

Major research activities include:
- Development of novel drug-delivery systems.
- Development of methods to biodegrade plastics eg. by using environmentally-friendly wood decomposing fungi.
- Application of enzyme technology in industrial processes.
- Extraction of bioactive compounds from biological substrates.
- Formulation of spreading formulations for the non-lethal repellency of birds.
- Development of methods for efficiently removing heavy metals from waste water streams.

Associated areas:
- Centre for Applied Colloid and BioColloid Science
- School of Engineering and Science

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

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

Major research activities include:

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

Associated areas:

- Australian Graduate School of Entrepreneurship (AGSE)
- Centre for Business and Management Research (CBMR)
- Institute for Social Research (ISR)
- Industrial Research Institute Swinburne (IRIS)
- School of Business
- School of Social and Behavioural Sciences

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

Human-centred Convergent Technologies

Human-Centred Convergent Technologies is an area of research excellence at Swinburne that is characterised as follows:

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

Research activity is concentrated in the following areas:

- Convergent Communications – the interface, mergers and alliances between information technology, telecommunications, and media.
- Convergent Technologies – the blending of telecommunications, networking, computing, and multimedia technologies providing seamless and mobile access to global networks.
- Human Computer Interaction – the study of the perceptual and cognitive factors that underlie human interaction with computing and communications devices.
- Internet Computing and eCommerce – the study of how collaboration is developed and supported in on-line businesses and communications.
- Affective Human-Computer Interaction – the study of the role of aesthetics and emotion in people’s interaction with web-based and multimedia technologies in work contexts.
- Information Technology Innovation – provision of solutions to industry for web-based information systems or mobile computing and communications environments.

Associated areas:

- Centre for Convergent Technologies
- Centre for Intelligent Systems and Complex Processes
- Centre for Internet Computing and eCommerce
- Convergent Communications program
- Information Technology Innovation Group
- National School of Design
- Swinburne Computer Human Interaction Laboratory (SCHIL)

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

In the rapidly emerging field of photonics and applied laser technology, four major research centres have been created under the umbrella of the new purpose-built Swinburne Optronics and Laser Laboratories (SOLL). The centres (listed below) have a wide range of world-class, state-of-the-art laser research facilities. Research areas cover a broad spectrum ranging from industrial applications of lasers to laser-based technologies of the future and laser studies of atoms and molecules at the most fundamental level.

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

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

Key contact: Professor David Booth
Telephone: (03) 9214 8725
Email: dbooth@swin.edu.au

Social Sustainability and Well-being

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

Major research activities include:
- Social policy – by researching government initiatives that try to better reflect the wishes of citizens, and which are grounded in modern theories of citizenship. Emphasis has been on measuring social progress and individual wellbeing using internationally accepted social indicators.
- Housing studies – by exploring new options for low income housing provision in these times of a declining commitment to public housing and increased policy confidence in private rental housing. Also significant has been research into housing market developments, and the effect of planning deregulation on neighbourhood identity and stability.
- Individual health – by conducting research into stress, coping, post-traumatic growth and social identity, with an emphasis on contributors to both risk and resilience in physical and mental health domains. The role of culture, social norms and social conditions in shaping individuals' beliefs about health and illness is also being examined.

Associated areas:
- Australian Foresight Institute
- Institute for Social Research (ISR)
- School of Social and Behavioural Sciences.

Key contact: Dr David Hayward
Telephone: (03) 9214 8070
Email: dhayward@swin.edu.au
Research Activities

**Astrophysics**

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

Research topics include the study of:
- Protostellar disks.
- Pulsar searches and timing.
- Globular clusters.
- Elliptical galaxies.
- Galaxy groups.
- Galaxy evolution.
- Gravitational lensing and Hydrogen gas in the nearby universe.

**Biomedical Instrumentation**

MAppSc/PhD
Research is concentrated in:
Centre for Biomedical Instrumentation
Provides a focus for research and consulting activities related to instrumentation for medical and physiological use.

Areas of research include:
- Physiological effects of mobile phone use.
- Calcium oscillations and waves in brain tissue.
- Brain wave activity during car driving.

**Business**

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

- **Accounting**
  - The role of audit competence in the judgement of audit quality from the user’s perspective.
  - Loan project analysis and appraisal.
  - Corporate responsibility.
  - Balanced scorecard from an Australian perspective.
  - Ethnic and gender differences in accounting students’ perception of their future work environment.
  - Student learning in accounting.
  - The changing role of teachers into published researchers.

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

- **Human Resource Management/Organisation Behaviour**
  - The development of an organisational diagnostic consulting tool.
  - Survivor syndrome as an outcome of organisational downsizing.
  - The effectiveness of collaborative use of information technologies/telecommunications by school separated by distance.

- **Law**
  - International business law.
  - International environmental law.
  - Marketing law.
  - Intellectual property law.
  - Contract law.
  - E-Commerce law.

- **Marketing and Business Modelling**
  - The nature of market orientation and new product development.
  - The development of new constructs and tools for strategic management.
  - The impact of technology on service delivery.
  - Electronic and Internet marketing.
  - The measure of customer satisfaction.
  - Information processing for marketing advantage.

**Chemical Sciences**

MAppSc/PhD
Major research activities include:

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

- **Colloid Science**
  - Interaction of fine particles in suspension.
  - Surface hydrophobicity of solids.
  - Advanced composite materials.
  - Minerals processing, minerals recovery.
  - Adsorption of heavy metals onto inorganic and organic substrates.
  - Water quality and treatment.
  - Studies of micro-porous substances.
  - Recyclable waste eg. plastic, glass, paper.

- **Chemical Analysis**
  - Analysis of compounds released in aromatherapy.
  - Development of chromatographic techniques.
  - Development of electrophoretic techniques.
  - Development of environmentally-friendly analytical techniques.

- **Electrochemistry**
  - Battery and fuel cell technology.
  - Corrosion.
  - Electroanalysis.
  - Electroplating and machining.
  - Waste destruction and water purification.
  - Electroosmosis.

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

Further information
Director: Dr Andrew Wood
Telephone: (03) 9214 8867
Email: andrewwood@swin.edu.au
Website: www.swin.edu.au/biosciieceng/bioinst

Further information
Director: Professor Matthew Bailes
Telephone: (03) 9214 8762
Email: mbailes@swin.edu.au
Website: www.swin.edu.au/business/cbmr

Further information
Director: Professor Miles Nicholls
Centre for Business and Management Research (CBMR)
Telephone: (03) 9214 8434
Email: mnicholls@swin.edu.au
Website: www.swin.edu.au/business/cbmr

Further information
Director: Professor Matthew Bailes
Telephone: (03) 9214 8762
Email: mbailes@swin.edu.au
Website: www.swin.edu.au/business/cbmr

Further information
Director: Professor Matthew Bailes
Telephone: (03) 9214 8762
Email: mbailes@swin.edu.au
Website: www.swin.edu.au/business/cbmr
Ever dreamt of having a state-of-the-art home like Bill Gates? Automatic lights that gently turn on and off as you enter and leave rooms or can be activated remotely to make your home look occupied. The ability to view video footage of your home remotely via a PC to determine what has triggered your security alarm.

Brendan Rogers makes these hi-tech dreams a reality. His education at Swinburne is a good example of the TAFE to PhD progression the University offers.

Brendan undertook a Tertiary Orientation Program (TOP) in the TAFE area before completing a degree in electrical and electronic engineering, and a PhD and post-doctoral research in artificial intelligence.

He is now a director of Clever Home Pty Ltd, a company that designs innovative automated systems for the home. The company integrates equipment from different manufacturers and develops software for each unique application.

“Using conventional light switches and uncoordinated appliances will soon be considered old-fashioned,” Brendan said.

“New homes are increasingly being fitted with systems that integrate and network the control of lights, air-conditioning, watering, security, surveillance, communications, roller-shutters, blinds and entertainment. This enables homeowners to enjoy greater convenience, safety, security and flexibility. Software can be changed at any time and tailored to suit the client’s needs,” he said.
E-SEARCH
Media and telecommunications.
Evolutionary programming.
Strategic alliances.
Human computer interaction.

OUSING
Organisation dynamics and change.
Hybrid systems.
Molecular simulation of fluids.
User-interface design and advanced user
Cognitive engineering.

FORMATION
Fluid theories.

ACTIVITIES
Software testing/metrics.
Internet/Web-based computing.
Intermolecular potentials.

ENGINEERING
Organisational re-engineering.

NDUSTRIAL
Requirements engineering.
Pen-based computing devices.
Fuzzy logic.
Information and organisations.
Organisational studies.
Non-Contract Inspection.

OLICY
Requirements engineering.
Citizenship and social policy.
Information systems in developing countries.

ENTREPRENEURSHIP
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Citizenship and social policy.
Information systems in developing countries.

ENTREPRENEURSHIP

and Innovation

DBA/PhD
Existing research projects are organised around related streams:
- Commercialising research.
- Innovation for business growth.
- Innovation policy.
- Venture capital.
All research is of an interdisciplinary nature with the major focus on research identified as relevant to business and industry growth or strategic development.

Further information
Australian Graduate School of Entrepreneurship (AGSE)
Telephone: (03) 9214 8479
Email: agse@swin.edu.au
Website: www.swin.edu.au/agse

General Management

DBA/PhD
Existing research projects at present are organised around three related and partially overlapping streams:
- Innovation and business development.
- Organisation dynamics and change.
- Strategic management and strategic change.
Research topics can be effectively undertaken in areas such as:
- Innovation strategies.
- International competitiveness.
- Managing change.
- Organisational analysis.
- Organisational re-engineering.
- Organisational studies.
- Small business establishment.
- Strategic alliances.
- Strategic management practices.
- Strategic market analysis and research.
Research of an interdisciplinary nature and research that is international, and comparative in the above areas, is encouraged.

Further information
Australian Graduate School of Entrepreneurship (AGSE)
Telephone: (03) 9214 8479
Email: agse@swin.edu.au
Website: www.swin.edu.au/agse

Housing Management and Policy

MA/PhD
Research activities are in the field of social research and concentrate on the following themes:
- Citizenship and social policy.
- Cities and housing.
- Media and telecommunications.
The examination of social exclusion, citizenship, media and telecommunication policy and the impact of social policy on issues of housing, democracy, education and communication.

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

Industrial Engineering

MEng/PhD/PhD (Ind)
Industrial Research Institute Swinburne (IRIS)
IRIS specialises in applied research and development of industrially-relevant technologies and sciences. The institute offers postgraduate research places in the following specialisations:
- Automation and Control.
- CAD/CAM.
- CIM.
- Lasers.
- Industrial Engineering.
- Industrial Information Technologies.
- Microwaves.
- Non-Contract Inspection.
- Polymers.
- Rapid Prototyping.
- Robotics.

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

Information Technology

MAppSc/MBus/PhD
Research is concentrated in Human Computer Interactions, Software Engineering, Information Systems, Computational Intelligence, E-Commerce, Internet and Technologies, Computer Simulation and Physical Applications.

Research Groups include:
Swinburne Computer Human Interaction Laboratory (SCHIL)
- Human computer interaction.
- Cognitive engineering.
- User-interface design and advanced user interfaces.
- Usability engineering methods and tools.

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

Internet Computing
- Teamwork, workflow and software development on the Web.
- Web-based computer-supported cooperative work (CSCW)/Groupware.
- Internet/Web-based computing.
- Software development environments.
- Distributed systems tools.

E-Commerce and Information Systems
- Conceptual modelling.
- Information and organisations.
- Requirements engineering.
- Information systems in developing countries.

Computational Intelligence
- Artificial neural networks.
- Evolutionary programming.
- Fuzzy logic.
- Hybrid systems.

Centre for Molecular Simulation
- Molecular simulation of fluids.
- Non-equilibrium molecular dynamics.
- Fluid theories.
- Intermolecular potentials.
- Critical phenomena.
- Equations of state for polymers.
- Phase equilibria.

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

Further information
School of Information Technology
Telephone: (03) 9214 8752
Email: info@it.swin.edu.au
Website: www.it.swin.edu.au

Further information
Centre for Information Technology Innovation
Telephone: (03) 9214 8752
Email: info@it.swin.edu.au
Website: www.it.swin.edu.au
Dr Peter Line is a professional officer at the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA). In his current position at ARPANSA’s Non-Ionizing Radiation Section, Peter is monitoring studies into the radiation effects from mobile phones.

“I am involved in the independent monitoring of exposure conditions of studies which are investigating the possible harmful effects of electromagnetic radiation from mobile phones. Part of the monitoring includes estimating the Specific Absorption Rate (SAR) in mice exposed to electromagnetic radiation from mobile phones,” Peter said.

He is preparing a summary report on the environmental electromagnetic energy levels from various radio frequency sources including TV transmitters, FM and AM radio transmitters, and mobile phone base stations in 14 different locations in Australia.

Peter graduated with a Bachelor of Applied Science from Swinburne in 1990, majoring in Biophysics and Instrumental Science. Following graduation, he began postgraduate studies with the Swinburne Centre for Applied Neurosciences which is now known as the Brain Sciences Institute (BSI).

In 1993, Peter gained his Masters for research into cognitive neuroscience which he carried out at the BSI. He later began work as a research assistant with the BSI before becoming a research scientist with the Brain Dynamics Laboratory at the Mental Health Research Institute of Victoria in 1996.

Peter received his PhD from Swinburne in 1998 for research into schizophrenia.
**Mechanical and Manufacturing**

**MEng/PhD**

Major research activities include:

- **Surface Engineering/Micro-Engineering/Laser Technology**
  Concerned with materials, surface coatings (particularly with respect to wear resistance) and use of excimer laser technology in micro-engineering. Research topics include:
  - Characterisation of plasma-treated surfaces.
  - High pressure gas quenching in vacuum heat transfer.
  - Wear mechanisms of surface engineering surfaces.
  - Filtered cathodic arc deposition.
  - Lubricant coating.
  - Multi-layer.

- **Modelling and Simulation**
  Includes theoretical, computational or experimental diagnostics and physical modelling techniques, applied mechanics, bio-engineering, engineering design, thermo-fluids engineering, physiological fluid dynamics, micro fluid handling and chemically-reacting flows. Current research projects include:
  - In-vitro fluid dynamics of ventricular assist device and valves prostheses.
  - Computational biomedical engineering.
  - Implantable micro-pump system for augmented liver perfusion.
  - Characterisation of turbulent swirling flows in an annulus.
  - Modeling and computer simulation of spry cooling in high-pressure die casting.
  - Top submergence and smelting technology including Ausiron process.
  - Computer aided simulation of the heat transfer and fluid flow during gas quenching of steel components.
  - Doppler techniques for flow measurements
  - Lung aerosol deposition.
  - Particle-laden flows and tube bank.
  - Turbulence and mixing.
  - Human motion kinematics and dynamics.
  - Tissue engineering
  - Representation and implementation of technological system models.
  - Screw theory and robot motion.
  - Development of a probabilistic design toolbox.
  - Computation of functions of random variables.
  - Axial collapse of thin-walled metal tubes.
  - Mechanics of a metal plate cut by a wedge.

**Neurosciences**

**MAppSc/PhD**

**Brian Sciences Institute**

The Institute is engaged in research to understand the relationship between cognitive processes and affective states, and the rhythms of electrical activity in the human brain.

**Areas of research include:**
- Brain rhythmic activity
- Functional brain imaging
- Working memory
- Attention
- Intelligence
- Psychopharmacology

**Further information**

Brain Sciences Institute

Telephone: (03) 9214 8622
Email: bsl@mind.scan.swin.edu.au
Website: www.scan.swin.edu.au

**Neuropsychology Laboratory**

- Neurochemistry of intelligence.
- Biological basis of personality and emotional intelligence.
- Neuropsychological assessment of clinical and forensic disorders.
- Stress in the workplace.
- Psychopharmacology and herbal compounds.
- Emotional Intelligence.
- Psychological Assessment.

**Further information**

Director: Associate Professor Con Stough
Telephone: (03) 9214 8167
Email: csstough@swin.edu.au
Website: www.swin.edu.au/bioscieleng/neuropsych

**Sensory Neuroscience Laboratory (SNL)**

Major research activities into the neurophysiology and psychophysiology of sensation and attention, 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.

**Further information**

Director: Dr John Patterson
Telephone: (03) 9214 8662
Email: jlpatterson@swin.edu.au
Website: www.swin.edu.au/bioscieleng/SNL

**Photronics**

**MSc/PhD**

**Swinburne Optronics and Laser Laboratories (SOLL)**

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

**Further information**

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

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

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

**Further information**

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

**Centre for Imaging and Applied Optics**

- Fibre optics sensors
- Industrial and medical imaging
- Industrial and medical optical fibre sensor applications
- Development of novel rare earth doped glasses for laser applications

**Further information**

Director: Dr Alex Mazziolini
Telephone: (03) 9214 8866
Email: amazziolini@swin.edu.au
Website: www.swin.edu.au/optics/iao

Further information on all research activities can be found at:

Website: www.swin.edu.au/hed/research

Email: engsci@swin.edu.au
**Psychology**

**MA/PhD**

Research is concentrated in the following areas:

- Applied social psychology.
- Child and family functioning.
- Counselling psychology.
- Cross-cultural psychology.
- Decision making processes.
- Emotional disorders.
- Ethical, legal and forensic issues.
- Gender.
- Health psychology.
- Motivation and personality.
- Social cognition.

**Further information**

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

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**Social Sciences and Arts**

**MA/PhD**

Research activities are concentrated in the following areas:

**Asian Studies**

- Citizenship, democracy and globalisation in Asia.
- The comparative study of South-East Asian modernities.
- Comparative urban studies: global cities of the Asia-Pacific.
- The analysis of political change in Cambodia.
- Democracy, dissent, and the labour movement in Indonesia.
- Women’s organisations and the role of women in Indonesia.

**Australian Studies**

- Auditing democracy in Australia.
- Australian Political parties.
- Australian populist movements.
- Industrial disputation.
- Judicial independence in Victoria.
- Models of citizenship in Australia.
- Trade union history.
- Women munition workers during the Second World War.

**Media and Communications**

- The changing face of literary culture and literacy.
- Communications policy.
- New media and new communications environments.
- New writing technologies.
- The political economy of media and telecommunications.
- Issues in Electronic Media.

**Philosophy and Cultural Inquiry**

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

**Politics**

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

**Sociology**

- Comparative sociology.
- Ethnicity and migration.
- Families, marriage and sexuality.
- Medical sociology and de-institutionalisation.
- Urban sociology and housing.

**Further information**

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

**Course code/title**
A007 Professional Doctorate of Business Administration (DBA)

**Duration**
Two and a half years full-time or equivalent part-time.

**Campus**
Hawthorn.

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

**Course overview**
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, and,
- **Organisation:** Managing Complexity, Uncertainty and Change.

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

- problem/project centred,
- industry-based, and

**Subjects include**
Advanced seminars focusing on Entrepreneurship, Strategic Management and Managing Change in Turbulence and Uncertainty; the Practicum is designed to ensure participants have methodological requirements to successfully carry out the demands of the thesis. The thesis is expected to represent a major advancement in professional theory/practice with implementable outcomes.

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**DESIGN**

**Course code/title**
DP010 Professional Doctorate in Design

**Duration**
Three years full-time.

**Campus**
Prahran.

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

**Course overview**
This innovative program of advanced study is designed to meet the professional needs of experienced designers in industry and education. Its focus is on the new emergent electronic media and their creative application within the fields of design. These media have wide application across the entire range of design professions, and are equally relevant to professionals working in, for example, graphic and multimedia design, product and industrial design, and interior and exhibition design.

The project-based structure of the course allows the designer to pursue a research goal, which is appropriate to their discipline, while using digital technology to better achieve that goal. As a design doctorate, the emphasis is firmly upon design, with the new digital technology acting as both a facilitator and a channel for professional development.

**Subjects include**
Design Research Projects 1 & 2, and a Major Design Research Project.

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**PSYCHOLOGY**

**Course code/title**
N008 Professional Doctorate in Counselling Psychology

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

**Campus**
Hawthorn.

**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.

**Course overview**
This higher degree by research provides the opportunity to develop professional skills in counselling or health psychology.

**Subjects include**
The Masters of Psychology (Counselling/Health Psychology) subjects and a substantial research thesis.

**Professional recognition**
Counselling Psychology: membership of the Australian Psychological Society and, after appropriate supervised practice, membership of the APS College of Counselling Psychologists.

Health Psychology: membership of the Australian Psychological and, after appropriate supervised practice, membership of the APS College of Health Psychologists.

**Further information**
School of Social and Behavioural Sciences
Telephone: (03) 9214 5209
Email: sbsadmin@swin.edu.au
Website: www.swin.edu.au/sbs/
An honours program at Swinburne provides students, who have demonstrated academic ability, with an opportunity to pursue their undergraduate studies to an advanced level; to deepen their intellectual understanding in their major area of study; and to develop their research skills.

The honours program is a recognised point of entry into postgraduate research studies. Students concentrate on their chosen area of study, gaining a better understanding of the academic discipline and the appropriate research techniques. The requirement to complete a substantial original piece of research for their dissertation ensures that honours graduates develop the ability to conceptualise problems, devise research strategies and carry out individual research work under the supervision of a member of staff with expertise in their chosen area of study.

For students wishing to seek employment following their undergraduate degree, an honours year affords the opportunity to extend their knowledge of their chosen discipline and to specialise in an area within it. The program’s strong orientation to research instructs students in the principles and techniques of original research and prepares them for areas of professional employment in which conceptual, organisational and research skills are in demand. An honours year is available in the following areas:

**BUSINESS, INNOVATION AND MANAGEMENT**

*Course code/title*
A063 Bachelor of Business (Honours)

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

**COMPUTING AND INFORMATION TECHNOLOGY**

*Course code/title*
A068 Bachelor of Information Systems (Honours)
Z065 Bachelor of Applied Science (Computer Science) (Honours)

*Further information*
School of Information Technology
Telephone: (03) 9214 5505
Email: info@it.swin.edu.au
Website: www.it.swin.edu.au

**DESIGN**

*Course code/title*
DGD20 Bachelor of Design (Honours) (Graphic Design)
DHCT20 Bachelor of Design (Honours) (Design History and Critical Theory)
DID20 Bachelor of Design (Honours) (Industrial Design)
DMR20 Bachelor of Design (Honours) (Multimedia Design)

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

**HEALTH AND HUMAN SERVICES**

*Course code/title*
Z072 Bachelor of Applied Science (Biochemistry/Chemistry) Honours
Z073 Bachelor of Applied Science (Chemistry) Honours

*Further information*
School of Engineering and Sciences
Telephone: (03) 9214 8372
Email: engsci@swin.edu.au
Website: www.swin.edu.au/bioscielceng

**ENGINEERING AND TECHNOLOGY**

*Course code/title*
The award of honours is incorporated into the undergraduate Engineering courses at Swinburne.

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

**SCHOOL OF SOCIAL AND ARTS**

*Course code/title*
N052 Bachelor of Arts (Honours)

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

**LILYDALE CAMPUS HONOURS PROGRAMS**

The Swinburne Lilydale Honours program follows any undergraduate degree in the disciplines of Business, Social Science and Applied Science. Students can work in a team or individually on industry or community based projects developing research and management skills.

*Further information*
Lilydale Student Administration
Telephone: (03) 9215 7000
Email: ldinfo@swin.edu.au
Website: www.it.swin.edu.au/html/honours.htm
Swinburne University of Technology

Postgraduate application form

The application form is available for downloading at: www.swin.edu.au/postgrad/

Who should complete this form?

Australian citizens or permanent residents

- Complete this form and send with appropriate documentation to the address below.
- When we receive your application you will be contacted should an interview or further information be required (eg you may be required to submit a letter from your employer indicating support for your studies).
- All applicants will be advised by mail of the outcome of their application.
- A non-refundable deposit is payable upon acceptance of an offer of a place in a course. This deposit is then deducted from your fees should you continue with your course of study.
- For further details visit the Swinburne policies and procedures database at: www.swin.edu.au/corporate/registrar/ppd/

International students

- Do not complete this form.
- Contact the International Student Unit on +61 3 9214 8712 for the appropriate form.

Research students (Masters by Research or Doctor of Philosophy)

- Do not complete this form.
- Contact the Office of Research and Graduate Studies on (03) 9214 5412 for the appropriate form.

Closing dates

Applications are welcome at any time. For the latest closing dates, visit: www.swin.edu.au/postgrad/

Checklist

BEFORE MAILING your application to us, please ensure that the following documents are enclosed:

- Completed and signed application form (note ALL relevant sections must be completed);
- Certified copies of all transcripts of results of previous studies;
- Proof of completion of academic qualifications;
- If you are currently studying, you must submit transcripts to the relevant School/Department as soon as results are available;
- A comprehensive CV detailing employment history, duties and responsibilities.

Note: Australian citizens and/or permanent residents who have obtained an award outside Australia must submit:

- Evidence of Australian acceptance of the standard of any overseas qualifications. Such evidence may be a letter from NOOSR (National Office of Overseas Skills Recognition), a photocopy of the appropriate page of the NOOSR handbook and/or notification of acceptance of the qualification by an Australian professional body, (eg The Institution of Engineers, Australia).
- Evidence of completion of the relevant award, ie: award certificate or letter of completion. Please provide translations if in a language other than English.
- Transcript/s of results. Please provide translations if in a language other than English.
- Applicants requiring equivalence documentation should contact NOOSR by telephoning 1800 020 086.

Return this form (and all relevant documentation) to Postgraduate Admissions

Postal address:

Postgraduate Admissions
Swinburne University of Technology
PO Box 218
Hawthorn 3122
Victoria, Australia

Delivery in person:

If hand delivering please contact the administering school for delivery address.

OFFICE USE ONLY

Selection Outcome: Offer: Yes ☐ No ☐ Pending ☐ Conditional ☐

Exemption Granted: (List by subject code)

Signed ____________________________ Date: __/__/____

Application entered on ASCOL __/__/____

Applicant notified of outcome __/__/____
We are interested in knowing how you heard about Swinburne and why you chose Swinburne for your studies. This information does not affect your application. Upon receiving your application, this survey sheet will be detached from the remainder of your application and processed separately so that responses remain anonymous.

Please shade the appropriate circles, using a black pen.

Shade circles like this: ●
Not like this: ❌

1a. Which course are you applying for? (To check course code, refer to http://pandoraplus.swin.edu.au/guide or Swinburne's Postgraduate Course Guide)

<table>
<thead>
<tr>
<th>Course Code e.g. A195</th>
<th>Course Name e.g. Master of Business (Marketing)</th>
<th>Course Load</th>
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<tr>
<td>Preference 1</td>
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<td>Full-time</td>
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<td>Preference 2</td>
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<td>Preference 3</td>
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<td>Full-time</td>
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1b. Please state your year of birth: __________

2. What is the major reason you chose to study at Swinburne?

3. What was the MAIN source from which you heard about Swinburne (CHOOSE ONE ONLY)
   - Community Expo/Exhibition (specify)
   - Direct mail
   - Mobile Information Unit (Swinburne's Big Red Truck)
   - Newspaper or magazine article/s
   - Outdoor billboard
   - Print advertisement (specify)
   - Radio advertisement (specify)
   - Swinburne News (Alumni Magazine)
   - Swinburne web site
   - Word of Mouth - Family member
   - - Friend
   - - Work colleague
   - Other (specify)

4b. Please list the names & URL's of your two favourite web sites.

5a. Are you currently employed:
   - Full-time
   - Part-time
   - Not employed
   - Student

5b. If employed, what is the name of the company you work for?

6. How many employees does the company have?
   - Fewer than 10
   - 10-50
   - More than 500
   - 51-100

7. Please indicate the type of industry the company is mainly concerned with? (CHOOSE ON ONLY)
   - Agriculture, forestry, fishing & hunting
   - Construction
   - Mining
   - Manufacturing
   - Education
   - Electricity, gas, water
   - Health
   - Wholesale and retail trade
   - Transport and storage
   - Communication
   - Finance, property and business services
   - Public administration
   - Community services
   - Recreation, personal, and other services
   - Other (please specify)
### SECTION B: PERSONAL DETAILS

Please use a black pen and write in block letters.

**Which course are you applying for?** (To check course code refer: http://pandoraplus.swin.edu.au/guide or the Postgraduate Course Guide)

<table>
<thead>
<tr>
<th>Preference 1</th>
<th>Preference 2</th>
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<tbody>
<tr>
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<td>Course Name</td>
<td>Course Load</td>
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<td>e.g. A195</td>
<td>e.g. Master of Business (Marketing)</td>
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<th>Commencement</th>
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<td>Semi 1, 2 or 3</td>
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Title (Mr,Mrs, Miss, Ms, Dr, Prof)     Sex (please tick)   Female   Male
Surname
If your present name is different from that appearing on the transcript of results, please attach appropriate legal documentation (e.g. deed poll certificate, marriage certificate)

Given names

Address for correspondence
Supply ONE address for correspondence
Street Name and Number
Suburb/City

Telephone (home)
Telephone (business)
Mobile
Facsimile
Email

Have you ever been enrolled in the Swinburne Higher Education Division? (please tick)   Yes   No
Have you completed an undergraduate degree at Swinburne?   Yes   No
Have you ever been enrolled at Swinburne TAFE?   Yes   No

If yes to any of the above, what is your Swinburne student ID number:

### SECTION C: PREVIOUS EDUCATIONAL STUDIES

List below any studies you have completed or attempted.

You must submit:

(a) a certified copy of all transcripts of results; and

(b) proof of completion of academic qualifications.

If you are currently studying, you must submit transcripts to the relevant School/Department as soon as results are available (documentation will not be returned).

<table>
<thead>
<tr>
<th>Year attended</th>
<th>Institution</th>
<th>Title of course</th>
<th>Full-time or part-time</th>
<th>Course completed (yes/no)? If no, what percentage completed</th>
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SECTION D: EMPLOYMENT HISTORY

Please complete the following employment history table. It is important that you include your curriculum vitae with this application.

<table>
<thead>
<tr>
<th>Year From/To</th>
<th>Employer</th>
<th>Full-time or part-time</th>
<th>Nature of Work</th>
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</table>

Will your current employer be financially sponsoring your studies? If yes, please supply the following for invoicing purposes.

Company name

Company contact name

Company address

Street Number and Name

Suburb/City

Postcode

State

Company telephone

Company facsimile

SECTION E: REASONS FOR APPLYING

Briefly state why you wish to undertake postgraduate studies. Indicate what benefits you expect to obtain and your career objectives over the next five years.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

SECTION F: APPLICANT’S DECLARATION

I declare that to the best of my knowledge the information above is correct and complete. I acknowledge that the provision of incorrect information or the withholding of relevant information relating to my academic record may result in the withdrawal by the University of a place which may be offered, and that this withdrawal may take place at any stage during the course I undertake.

Signature of Applicant: ____________________________ Date: ___/___/____

Thank you for applying to study at Swinburne University of Technology.
Postgraduate programs

→ by coursework

http://pandoraplus.swin.edu.au/guide/

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

Course code/title
S048 Graduate Certificate of Science (Astronomy)
S058 Graduate Diploma of Science (Astronomy)
S068 Master of Science (Astronomy)

Duration
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: two semesters full-time or equivalent part-time.
Masters: three semesters full-time or equivalent part-time.

Campus
Online.

Entry requirements
A degree or diploma from a recognised tertiary institution (or approved equivalent) or relevant experience, depending on the level of entry. Entry to the Graduate Certificate is restricted to residents of Australia and New Zealand. Entry to the Graduate Diploma or Masters program is available worldwide. Students who are admitted to the Graduate Certificate, and who obtain credits or above will qualify for admission with full credit to a higher level of the program.
Where necessary, the selection process may include an interview by telephone to establish an applicant’s level of experience in, or knowledge of, astronomy.

Students are expected to be computer literate and to have Internet access outside of Swinburne.

Course overview
This program covers the fundamental concepts and ‘big questions’ of modern astronomy, in order to equip students with a good overall understanding and general knowledge about modern astronomy, rather than training as a professional astronomer. The Graduate Certificate provides subjects suitable for members of the general public who wish to obtain an overview of astronomy with the option to continue to more advanced subjects and qualifications. The intention of the Graduate Diploma course is to provide scope for more specialist study in astronomy, while the Masters provides opportunities for major project work.

Subjects include

Further information
School of Biophysical Sciences and Electrical Engineering
Telephone: (03) 9214 8859
Email: astro@swin.edu.au
Website: www.swin.edu.au/astronomy/sao/welcome.html

Chemistry

Course title
Z087 Master of Applied Science (Computational Chemistry/Biomolecular Design)

Duration
One year full-time or equivalent part-time.

Campus
Largely offered via the Internet. This course is provided jointly by Swinburne (Hawthorn campus), Northern Territory University, Victorian College of Pharmacy (Monash University), and the University of Tasmania.

Entry requirements
A degree in chemistry from a recognised tertiary institution (or approved equivalent) plus one or two years appropriate experience (this may include an honours year, a graduate diploma or experience in teaching or industry).

Course overview
The course aims to develop in students:
- mastery of the broad scientific principles and theory underlying computational chemistry,
- mastery of software applications used in computational chemistry, a thorough understanding of the methods of computational chemistry and competence in their application.
- Applications and problems will be relevant to industry. The course also provides a base from which specialised PhD research may proceed. Graduates will be able to take advantage of modern technology and play a constructive role in technological change in society.

Subjects include
The Scope of Computational Chemistry, Molecular Modelling, Approximate Quantum Chemistry, Basic Quantitative Structure Activity Relationships (QSAR), Ab initio Quantum Chemistry, Molecular Mechanics and Dynamics plus a Research Project and Report. Elective subject to be chosen from Advanced Molecular Modelling, Advanced Ab initio Quantum Chemistry and Advanced QSAR.

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

**Course code/title**
- A078 Graduate Certificate of Business (Accounting and Finance)
- A183 Graduate Diploma of Business (Accounting and Finance)

**Duration**
- Graduate Certificate: one year part-time.
- Graduate Diploma: two years part-time.

**Campus**
- Hawthorn.

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

Entry is also available for applicants who wish to complete the MBA finance specialisation. These applicants would normally choose the finance related subjects listed below. A special entry provision is available for graduates who hold an overseas qualification in accounting, and are seeking provisional membership of the Australian Society of Certified Practising Accountants (ASCPA).

**Course overview**
The Graduate Certificate develops the technical, practical, analytical and creative skills necessary to support a successful career in accounting and finance. It provides an entry level into tertiary study and the ability to obtain a tertiary qualification for appropriately qualified candidates. Successful completion of the course is the first stage in a nested program leading to a Graduate Diploma.

The Graduate Diploma offers participants the opportunity to specialise in either accounting or finance. It builds on the skills and knowledge acquired in the Graduate Certificate. It further develops the analytical and creative skills necessary when dealing with accounting and financial issues within planning and decision making. At completion of the course, graduates can expect to have developed the requisite skills to continue with further postgraduate study at the Masters or MBA level.

**Subjects include**
- Accounting Principles and Systems
- Corporate Financial Management
- Managerial Accounting
- Financial Reporting
- Income Tax Law
- Australian Company Law
- Company Auditing
- Financial Accounting Theory
- Capital Markets
- Investment and Portfolio Management
- Personal Investment
- International Financial Management

**In-house training**
This course can be offered as an in-house training program tailored to an organisation’s specific needs.

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

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**Applied Business**

**Course code/title**
- 0045GAB Graduate Certificate in Applied Business

**Duration**
- Six months full-time or one year part-time.

**Campus**
- Hawthorn.

**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.

**Course overview**
This course has been designed to meet the needs of mature age students who may wish to broaden the skills already gained in an undergraduate program, or those who want to develop vocational knowledge and skills in a new professional area. The course consists of four compulsory subjects, with each subject consisting of a number of modules.

**Subjects include**
- Introduction to Marketing
- Implementing Marketing
- Management for Marketing
- Business Information Systems
- Information Technology for Managers
- The eBusiness Infrastructure
- eBusiness Regulation
- Community, Sustainability and eBusiness: Virtual Communities – eBusiness and Communication Project
- Multimedia Tools in Web Site and CD-Rom Development
- Cultural and Intercultural Implications of Globalisation
- Sustainability Indicators and eBusiness Performance
- Learning Organisations and Systems Thinking
- Managing Human Resources in eBusiness Environments
- eBusiness and Communication Work-based Project
- Economics of eTrading and Globalisation
- Multimedia Tools in Web Site and CD-Rom Development
- Sustainability Indicators and eBusiness Performance
- Masters: Strategic Transformation and Entrepreneurial eBusiness: Virtual Communities – eBusiness and Communication Work Integrated Project

**Further information**
- TAFE School of Business and eCommerce
  - Department of Marketing and International Studies
  - Telephone: (03) 9214 5109
  - Email: ffowler@swin.edu.au

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**eBusiness and Communication**

**Course code/title**
- L082 Graduate Certificate in eBusiness and Communication
- L075 Graduate Diploma in eBusiness and Communication
- L085 Masters in eBusiness and Communication

**Duration**
- Graduate Certificate: one year part-time
- Graduate Diploma: two years part-time or one year full-time
- Masters: three years part-time or one and a half years full-time

**Campus**
- Lilydale or online.

**Entry requirements**
A degree in any area of study or relevant and appropriate business/occupation, training and experience.

**Course overview**
This program offers graduates, senior industry personnel and international students an advanced program in the field of eBusiness and Communication. It provides students with specialised knowledge at the cutting edge of eBusiness culture, improved communication capabilities and the opportunity to develop a wide range of eBusiness and related skills.

**Subjects include**
- Graduate Certificate: Managing the Transition to eBusiness: Communication and Electronic Culture
- Business Information Systems and Information Technology for Managers
- The eBusiness Environment
- eBusiness and Communication Project
- eBusiness Virtual Learning Project
- Finance for eBusiness Managers: Designing Multimedia Presentations for Business
- Sustainability, eBusiness and Triple Bottom Line: Learning Organisations and Systems Thinking
- Graduate Diploma: eBusiness Design and Process Innovation: eMarketing and Customer Relationship Management
- Strategic Cost Management in eBusiness: Managing Human Resources in eBusiness Environments
- eBusiness and Communication Work-based Project
- Economics of eTrading and Globalisation
- Cultural and Intercultural Implications of Globalisation
- Multimedia Tools in Web Site and CD-Rom Development
- Sustainability Indicators and eBusiness Performance
- Masters: Strategic Transformation and Entrepreneurial eBusiness: Virtual Communities – eBusiness and Communication Work Integrated Project

**In-house training**
The course can be offered as an in-house training tailored to an organisation’s specific needs.

**Further information**
- Centre for eBusiness and Communication
  - Telephone: (03) 9735 1834
  - Email: admin@busin.swin.edu.au
  - Website: www.id.swin.edu.au/ebusiness
ENTREPRENEURSHIP AND INNOVATION

Course code/title
Y072 Graduate Certificate of Entrepreneurship and Innovation
Y082 Graduate Diploma of Entrepreneurship and Innovation
Y091 Master of Entrepreneurship and Innovation (MEI)

Duration
Graduate Certificate: one year part-time.
Graduate Diploma: two years part-time.
Masters: three years part-time.

Campus
Hawthorn.

Entry requirements
A degree from a recognised tertiary institution (or approved equivalent) plus at least four years of full-time experience in new business creation. Applicants who do not hold an appropriate qualification but who have considerable relevant work experience may initially be admitted to the Graduate Certificate level.

Course overview
This program recognises the need to educate intending entrepreneurs and middle managers within existing organisations. The management of innovation is based on three key skills: organisation dynamics, marketing and quantitative assessment and includes skills such as basic finance into a multi-disciplinary assessment of the commercial feasibility of innovative opportunities.

Subjects include

In-house training
This course can be offered as an in-house training program tailored to an organisation’s specific needs.

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

EXECUTIVE ADMINISTRATION

Course code/title
0046BEAA Graduate Certificate in Business (Executive Administration)

Duration
Two semesters part-time.

Campus
Hawthorn and Wantirna.

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

Course overview
This course is designed for office support staff: who possess executive administration skills, but have no formal qualification; who wish to broaden the depth of their skills and knowledge; who may have undertaken a qualification some time ago but have not done any further formal study; who would like to increase their skills and qualifications in order to apply for promotional positions.

Subjects include

In-house training
This course can be offered as an in-house training program tailored to an organisation’s specific needs.

Further information
TAFE School of Business and eCommerce
Department of Administration and Business Technology
Telephone: (03) 9210 1224

FLEXIBLE DELIVERY

Course title
Graduate Certificate in Flexible Delivery

Duration
The nominal duration of this course is 320 hours (4 modules of 80 hours each). Most students enrol for one module per semester, but the modules may be completed within a timeframe that suits the student’s workload and individual responsibilities.

Campus
Wantirna and other delivery modes including online.

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

It is generally expected that the student will have a teacher qualification, have achieved the competencies of Workplace Trainer (Certificate IV) or considerable experience in a training environment within the VET sector. Students are also encouraged to have basic computing skills using word processing applications, file management, email and an Internet browser.

Course overview
The course is designed for managers, teachers, trainers or resource developers. Students will develop the knowledge, skills and attitudes needed to design, implement and evaluate flexible education and training options. Students will be supported by tutors, workshops, computer mediated communication, innovative course materials, action learning groups, and mentors (if appropriate).

Subjects include

Further information
Customised Training Development
Telephone: (03) 9214 1190
Email: Lillian.austin@swin.edu.au
GENERAL MANAGEMENT

Course code/title
B270 Graduate Certificate of Business Administration
B280 Graduate Diploma of Business Administration
B290 Master of Business Administration (MBA)

Duration
Graduate Certificate: one trimester full-time or equivalent part-time
Graduate Diploma: three trimesters full-time or equivalent part-time.
Masters: three trimesters full-time or equivalent part-time.

Campus
Hawthorn.

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.

Course overview
This program prepares students for a successful career in starting and/or managing enterprises in a complex, global and competitive environment. At the completion of the program it is expected that graduates will:

■ have a deep understanding of the innovation processes and what it takes to commercialise innovation and the ability to manage the practical application of innovation;
■ be recognised for their hands on leadership ability, enhanced by an experiential understanding of the multifaceted factors that are required to develop initiatives or to transform mature enterprises;
■ have a clear understanding of the new realities (old versus new economy) facing enterprises and be capable of effectively operating in such an environment;
■ have the capacity to develop and maintain an organisational culture which values creativity, diversity and a cross disciplinary approach to managing organisational effectiveness; and
■ have a range of skills and knowledge that enhances business communication.

Subjects include

In-house training
This course can be offered as an in-house training program tailored to an organisation’s specific needs.

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

HUMAN RESOURCE MANAGEMENT

Course code/title
5801BA Graduate Certificate in Human Resource Management
A181 Graduate Diploma of Business (Human Resource Management)
A196 Master of Business (Human Resource Management)

Duration
Graduate Certificate: one year part-time.
Graduate Diploma: two years part-time.
Master: three years part-time.

Campus
Hawthorn.

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

Course overview
The Graduate Certificate aims to provide specific knowledge in human resource management for people in human resource positions and line management who wish to gain recognition in this area of management.

The Graduate Diploma builds on the knowledge and skills gained in the first year and develops high level HR managerial skills. It focuses on the role of HR as part of business strategy.

The Master program provides a unique opportunity for students to gain specialised HRM and business knowledge through coursework, and then apply and extend that knowledge by research and preparing a entrepreneurial strategic workplace project.

Subjects include

Professional recognition
Graduates are eligible to apply for membership of the Australian Human Resources Institute.

Further information
Graduate Certificate:
TAFE School of Business and eCommerce
Department of Management
Telephone: (03) 9214 5329
Graduate Diploma and Master:
School of Business
Telephone: (03) 9214 5046
Email: busheh@swin.edu.au
Website: www.swin.edu.au/business

Kerry Boulton is recognised for her distinguished achievement and is regarded as an entrepreneur who combines ability, empathy, energy and integrity. Her former business, FMI, was the recipient of the 1992 Telecom and Victorian Government Small Business Award for Total Quality Management. She was a finalist in the 1999 Telstra Businesswoman of the Year Awards and the recipient of the L.M. Gillin ‘Innovator of the Year’ Award in 1998.

“The MEI is an outstanding experience for anyone wanting to understand the principles of entrepreneurship and innovation and to put those principles into practice. The people I’ve had the privilege to learn with and the networks developed are outstanding. And apart from the hard work, it’s a lot of fun, too! In my very first class I remember claspimg my head in my hands saying “I wish I’d known this 10 years ago – I may not have had so many ‘learning opportunities’!”

“My new businesses, Nexus Business Coaching and FastTrac Victoria Pty. Ltd. was founded just three months after starting the MEI. Five years on I am in the fortunate position of being able to share my skills and the learning gained throughout my years of experience in business and the MEI. Not only that, through my ongoing association with Swinburne, the networks formed and many friends who were also doing the MEI, I am able to keep up-to-date with leading-edge thinking in these increasingly important areas. Having a passion for people and business is a powerful combination I am now privileged to be able to combine in my coaching and training businesses.”

Website: www.swin.edu.au
**INTERNATIONAL EDUCATION**

**Course code/title**
21077VIC Graduate Certificate in Business (Management of International Education)

**Duration**
One semester, four modules each of 120 nominal hours duration.

**Campus**
One-third of each module will be delivered in seminar format at the Hawthorn campus, with the remaining hours undertaken through self-directed study, online resources, and action learning.

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

**Course overview**
The course has been designed for teaching, administrative and management staff in the education system who work or wish to work in delivering or promoting onshore education and training to international students; in offshore international projects; or in any aspect of the international educational activity of their organisation.

**Subjects include**
Culture and Diversity in International education, Australian education in an International Context and two of the following stream modules: Management of International Education and Training (offshore), Management of International Education and Training (onshore), or Elective.

**Further information**
TAFE School of Business and eCommerce Department of Marketing and International Studies Telephone: (03) 9214 8114 Email: mbroukoumis@groupwise.swin.edu.au

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**MARKETING**

**Course code/title**
A171 Graduate Certificate of Business (Marketing)
A186 Graduate Diploma of Business (Marketing)
A195 Master of Business (Marketing)

**Duration**
Graduate Certificate: one year part-time.
Graduate Diploma: two years part-time.
Masters: three years part-time.

**Campus**
Hawthorn.

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

Applicants with a degree in marketing and a minimum of two years relevant business experience may be admitted to the Graduate Diploma level.

**Course overview**
The Graduate Certificate provides a comprehensive introduction to all aspects of marketing. The emphasis is on marketing as an integrative part of business. Participants will develop the practical, analytical and creative skills necessary to support a successful career in marketing.

The Graduate Diploma offers participants the opportunity to gain specialist knowledge in marketing. It further develops the analytical and creative skills, which are necessary when dealing with marketing issues in planning and decision making.

The Master of Business (Marketing) is the final stage in this nested program. It provides a unique opportunity for participants to gain specialised marketing knowledge through coursework and then apply and extend that knowledge by researching and preparing an Action Research Project, or an Integrating Project in Marketing.

**Subjects include**

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

Course code/title
00460LM Graduate Certificate in Quality Management

Duration
Two semesters part-time.

Campus
Hawthorn.

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

Course overview
This course enables participants to plan, initiate, control, install and audit QM programs successfully. It is especially designed to incorporate/address both the new ISO9000 in 2000 standards for quality and the criteria for the Australian Quality Awards. The program also develops 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.

Subjects include

In-house training
This course can be offered as an in-house training program tailored to an organisation’s specific needs.

Further information
TAFE School of Business and eCommerce Department of Management Studies
Telephone: (03) 9214 5366
Email: emarreid@swin.edu.au

STRATEGIC FORESIGHT

Course code/title
SF100 Graduate Certificate in Science (Strategic Foresight)
SF200 Graduate Diploma in Science (Strategic Foresight)
SF300 Master of Science (Strategic Foresight)

Duration
Graduate Certificate: one year full-time.
Graduate Diploma: two years full-time.
Masters: three years full-time.

Campus
Hawthorn.

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

Course overview
The Graduate Certificate provides a grounding in the foundational areas that support the foresight discipline. It also provides the ability to understand the nature of foresight and its successful practice in organisations.

The Graduate Diploma has been developed to provide more advanced insights into the changing nature and futures/foresight implications of the global system. Additionally, it links global foresight with organisational strategy, going beyond conventional year-to-year annual planning cycles to embrace new conceptual and operational territory.

The Masters program provides a sound theoretical and practical foundation for the successful practice of strategic foresight in many fields. The focus is on practice rather than on pure academic theory. It will primarily appeal to those people who are already high achievers part-way through a career path and who desire to develop new proactive approaches to their work, or perhaps to change direction.

Subjects include

Professional recognition
The World Futures Studies Federation.

Note: A Professional Doctorate in Strategic Foresight will be offered in 2004 (subject to numbers).

Further information
Australian Foresight Institute
Telephone: (03) 9214 5982
Email: rslaughter@swin.edu.au

DEBBIE NEILSEN
Graduate Certificate in Quality Management

In her role as Quality Manager of two private hospitals Debbie Neilsen was asked to comment on the proposed curriculum for Swinburne’s Graduate Certificate in Quality Management.

Debbie was so impressed by the course content that she enrolled for the 12 month part-time course and is enjoying every minute of it.

Working as a Quality Manager for five years, Debbie said she was aware of most of the areas covered by the course, but it enables her to increase her depth of knowledge and understanding.

“It has also helped me to reinforce my ability to use what I am learning in my job on a daily basis,” she said.

Debbie had been intending to study, and had in fact been accepted into two other courses before she discovered the Graduate Certificate in Quality Management based at Swinburne’s Hawthorn campus.

“I had not studied for years and the fact that this course was only two evenings a week and I could complete it in one year was a good way to get into the study regime,” she said.

“I have a rather demanding job but I have managed to fit the two in and as the course is so relevant to my work it makes it so much more interesting.”

Debbie plans to continue studying after she completes her graduate certificate and one day aims to complete a masters degree.
**Electronic Commerce Systems**

**Course code/title**  
I071 Graduate Certificate in Information Technology  
I083 Graduate Diploma in Information Technology (Electronic Commerce Systems)

**Duration**  
Graduate Certificate: one semester full-time or equivalent part-time.  
Graduate Diploma: one year full-time or equivalent part-time.

**Campus**  
Hawthorn.

**Entry requirements**  
A degree from a recognised tertiary institution (or approved equivalent) in a non-IT discipline. Applicants that do not hold an appropriate qualification but who have considerable relevant experience are eligible to apply for the Graduate Certificate level.

**Course overview**  
This program’s focus is primarily technical, but it also includes extensive material on major business issues. The program provides study of the practices and uses of information technologies and information systems, principles in the design, development and deployment of electronic commerce systems, leading to a wide range of employment opportunities in both the private and public sectors. Similarly the program will attract those with skills in management, marketing, social policy and public administration, who wish to acquire specialist expertise in electronic commerce systems.

**Subjects include**  
Information Systems and Programming, Web Development, Database, E-Commerce: Business Perspective, E-Commerce: Systems Infrastructure, E-Commerce Project, plus either the:  
- Information Technology Option – Business Programming, Advanced Web Technologies, or  

**Further information**  
School of Information Technology  
Telephone: (03) 9214 5505  
Email: info@it.swin.edu.au  
Website: www.it.swin.edu.au

**Information Systems Applications**

**Course code/title**  
I071 Graduate Certificate in Information Technology  
I083 Graduate Diploma in Information Technology (Information Systems Applications)

**Duration**  
Graduate Certificate: one semester full-time or equivalent part-time.  
Graduate Diploma: one year full-time or equivalent part-time.

**Campus**  
Hawthorn.

**Entry requirements**  
A degree from a recognised tertiary institution (or approved equivalent) in a non-IT discipline. Applicants who do not hold an appropriate qualification but who have considerable relevant work experience are eligible to apply for the Graduate Certificate level.

**Course overview**  
Information Systems is concerned with the application of information technology to support organisations in the conduct of their business. It examines the basic organisational issues and the techniques and technology required for the analysis, design and implementation of business solutions. The Graduate Certificate consists of four subjects from the Graduate Diploma. Students who successfully complete the Graduate Certificate may apply to progress to the Graduate Diploma.

The Graduate Diploma aims to provide specific skills in areas such as spreadsheets, databases and programming. While these skills are valuable in solving business problems at a personal level, the course also examines organisational issues relating to the impact, effective use and management of IT.

**Subjects include**  

**Further information**  
School of Information Technology  
Telephone: (03) 9214 5505  
Email: info@it.swin.edu.au  
Website: www.it.swin.edu.au

**Information Systems Development**

**Course code/title**  
I071 Graduate Certificate in Information Technology  
I082 Graduate Diploma in Information Technology (Information Systems Development)

**Duration**  
Graduate Certificate: one semester full-time or equivalent part-time.  
Graduate Diploma: one year full-time or equivalent part-time.

**Campus**  
Hawthorn.

**Entry requirements**  
A degree from a recognised tertiary institution (or approved equivalent) in a non-IT discipline. Applicants who do not hold an appropriate qualification but who have considerable relevant work experience are also eligible to apply for the Graduate Certificate level.

**Course overview**  
Information Systems is concerned with the application of information technology to support organisations in the conduct of their business. It examines the basic organisational issues and the techniques and technology required for the analysis, design and implementation of business solutions.

The Graduate Certificate consists of four subjects from the Graduate Diploma. Students who successfully complete the Graduate Certificate may apply to progress to the Graduate Diploma.

The Graduate Diploma aims to provide the skills and knowledge to allow graduates to begin or progress in careers such as software development or systems analysis. The programming languages Visual Basic and Java are offered as alternatives, and in the database area, students will gain valuable experience with the widely used Oracle Database Management System.

**Subjects include**  

**Further information**  
School of Information Technology  
Telephone: (03) 9214 5505  
Email: info@it.swin.edu.au  
Website: www.it.swin.edu.au
Information Systems

Course code/title
A097 Master of Information Systems

Duration
Three years part-time.

Campus
Hawthorn.

Entry requirements
Entry is available only to students who have significant relevant business experience, normally at least four years. Students who do not hold a degree must undertake the full program of 12 subjects. Students who have a degree will be eligible for exemption from two elective subjects in Stage 1. Students who have a degree or graduate diploma in information systems may be eligible to commence the course at Stage 2, and take 8 subjects.

Course overview
The Master of Information Systems focuses on the effective management of information technology for strategic advantage. This includes an examination of issues and directions in information technology and the development of analytical and managerial skills. The course will meet the needs of applicants who wish to enhance their career opportunities through developing expertise in current approaches to the management of information technology.

Subjects include

Further Information
School of Information Technology
Telephone: (03) 9214 5505
Email: info@it.swin.edu.au
Website: www.it.swin.edu.au

Information Technology

Course code/title
IO91 Master of Information Technology

Duration
One year full-time or equivalent part-time.

Campus
Hawthorn.

Entry requirements
A recognised degree or graduate diploma in computer science, computer systems engineering, information technology or information systems at an appropriate level of achievement.

Course overview
This program is designed to provide students with the opportunity to study contemporary areas of information technology at an advanced level. The program is aimed both at recent IT graduates who wish to pursue advanced studies, and at practitioners seeking to update or enhance their knowledge in specialist areas. Students may choose to specialise in one of several areas, or to follow a broad program. Areas covered by the program include Software Engineering, Human-Computer Interaction, Information Systems Modelling and Development, Distributed Systems Development, Database, Computer Networks, and Multimedia. Students also have the option to undertake research leading to a minor thesis.

Subjects include

Further information
School of Information Technology
Telephone: (03) 9214 5505
Email: info@it.swin.edu.au
Website: www.it.swin.edu.au

Internet Software Development

Course code/title
IO71 Graduate Certificate in Information Technology
IO84 Graduate Diploma in Information Technology (Internet Software Development)

Duration
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: one year full-time or equivalent part-time.

Campus
Hawthorn.

Entry requirements
A degree from a recognised tertiary institution (or approved equivalent) in a non-IT discipline. Preference may be given to applicants whose degree is in a scientific or engineering discipline. Applicants who do not hold an appropriate qualification but who have considerable relevant work experience are also eligible to apply for the Graduate certificate level.

Course overview
This program provides a practical education in software development emphasising the object-oriented approached and web-based systems. It is aimed at professionals who will use the knowledge to complement their previous qualifications, and also aimed at people who are seeking a change in career direction.

Entry requirements
A degree from a recognised tertiary institution (or approved equivalent) in a non-IT discipline. Preference may be given to applicants whose degree is in a scientific or engineering discipline. Applicants who do not hold an appropriate qualification but who have considerable relevant work experience are also eligible to apply for the Graduate certificate level.

Course overview
This program provides a practical education in software development emphasising the object-oriented approached and web-based systems. It is aimed at professionals who will use the knowledge to complement their previous qualifications, and also aimed at people who are seeking a change in career direction.

Entry requirements
A degree from a recognised tertiary institution (or approved equivalent) in a non-IT discipline. Preference may be given to applicants whose degree is in a scientific or engineering discipline. Applicants who do not hold an appropriate qualification but who have considerable relevant work experience are also eligible to apply for the Graduate certificate level.

Further information
School of Information Technology
Telephone: (03) 9214 5505
Email: info@it.swin.edu.au
Website: www.it.swin.edu.au
DESIGN STUDIES

Course code/title
DMDS30 Graduate Diploma of Design Studies
DMDS31 Master of Design (Design Studies)

Duration
Graduate Diploma: two years part-time.
Masters: two and a half years part-time.

Campus
Prahran.

Entry requirements
A degree or diploma in art or design from a recognised tertiary institution or substantial experience in the design industry (normally five years).

Course overview
This program aims to provide relevant extension work in the areas of design practice, technology, history and theory to individuals who work in design related fields or have existing design qualifications. It has been developed to enable them to upgrade their professional skills and design awareness, including digital design, while developing a strong sense of design's cultural context and social role. Masters candidates would be expected to demonstrate an independent approach to developing knowledge or understanding in design through their design research/thesis project. This course has been developed in consultation with the Graphic Communication Teachers Association and the Technology Education Association of Victoria (TETAV).

Subjects include
Design Studio (Graphic Design), Multimedia Design, Industrial Design and Interior and Exhibition Design, Design Practice (Graphic Design), Multimedia Design, Industrial Design and Interior and Exhibition Design, Modernism and Mass Culture, Modern/Postmodern, Design and the Production of Culture and Design Research.

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

MULTIMEDIA DESIGN

Course code/title
DMMD30 Graduate Certificate of Design (Multimedia Design)
DMMD31 Graduate Diploma of Design (Multimedia Design)
DMMD32 Master of Design (Multimedia Design)

Duration
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: one year full-time or equivalent part-time.
Masters: two years full-time or equivalent part-time.

Campus
Prahran.

Entry requirements
A degree in design or appropriate industrial experience.

Course overview
This course aims to produce postgraduates with a specialist understanding of communication design, media studies and programming as applied to the World Wide Web and computer interactive mediums. They will acquire specialist skills for communication design in typography, animation, 3D modelling, audio and video as applied to electronic mediums. Graduates of the course would have broad based knowledge and specialist skills that will enable them to work at many levels in design consultancies, information technology companies, media and entertainment studios, advertising agencies and government instrumentalities.

Subjects include

Professional recognition
Graduates of the course are eligible for Membership of the Australian Graphic Design Association (AGDA), Membership of multimedia Industry Network (mmIN) and Associate Membership of the Design Institute of Australia (DIA).

Further information
National School of Design
Telephone: (03) 9214 6755
Email: NSDenquiry@swin.edu.au
A degree in aviation, business, economics, engineering, law, management, psychology, science or social science, or people working in the aviation industry with a minimum of two years operational experience as air traffic controllers, licensed aircraft maintenance engineers (LAMEs), company managers and supervisors, military personnel and pilots, or pilots holding a full ATPL licence.

Other people currently working in the aviation industry with a demonstrable academic capacity to deal with the study requirements and/or would benefit from participating in the program, are also eligible to apply.

Course overview
The program provides students with the necessary skills in the field of air transportation management within the aviation industry. It provides insight into the multiple facets of management and its application in air transportation. The programs have been developed in partnership with the aviation industry.

Subjects include

Further information
School of Engineering and Science
Telephone: (03) 9214 5066
Email: kdoig@swin.edu.au
Website: www.swin.edu.au/aviation

Course overview
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 its application in the aviation industry.

One of the unique aspects of the Graduate Diploma and Master of Technology is that lecturers from a number of universities contribute to this teaching, which provides a range of diverse views and ideas and broadens the students’ understanding of the human factors domain.

Subjects include

Further information
School of Engineering and Science
Telephone: (03) 9214 5066
Email: kdoig@swin.edu.au
Website: www.swin.edu.au/aviation

Course code/title
M094 Graduate Certificate of Technology (Air Transportation Management)
M095 Graduate Diploma of Technology (Air Transportation Management)
M096 Master of Technology (Air Transportation Management)

Duration
Graduate Certificate: one year full-time or equivalent part-time.
Graduate Diploma: two years full-time or equivalent part-time.
Masters: three years full-time or equivalent part-time.

Campus
Distance Education.

Entry requirements
A degree in aviation, business, economics, engineering, law, management, psychology, science or social science, or people working in the aviation industry with a minimum of two years operational experience as air traffic controllers, licensed aircraft maintenance engineers (LAMEs), company managers or supervisors, military personnel or pilots, or pilots holding a full ATPL licence.

People currently working in the aviation industry with a demonstrable academic capacity to deal with the study requirements and/or would benefit from participating in the program, are also eligible to apply.

Course overview
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 its application in the aviation industry.

One of the unique aspects of the Graduate Diploma and Master of Technology is that lecturers from a number of universities contribute to this teaching, which provides a range of diverse views and ideas and broadens the students’ understanding of the human factors domain.

Subjects include

Further information
School of Engineering and Science
Telephone: (03) 9214 5066
Email: kdoig@swin.edu.au
Website: www.swin.edu.au/aviation

Course code/title
M084 Graduate Certificate of Engineering (CAD/CAM)
M085 Graduate Diploma of Engineering (Computer Integrated Manufacture)
M086 Master of Engineering (Computer Integrated Manufacture)

Duration
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: one year full-time or equivalent part-time.
Masters: one and a half years full-time or equivalent part-time.

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

Campus
Hawthorn.

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

Course overview
Computer Aided Design (CAD) is defined as a system that uses a computer to assist in the creation or modification of a design. Computer Aided Manufacturing (CAM) is defined as the effective utilisation of computer technology in the management, control and operation of the manufacturing facility through direct or indirect interface with the physical and human resources of the company.

The CIM program prepares engineering and physical sciences graduates for future roles in the development and application of computer integrated manufacturing in the manufacturing industry. CIM is an important and effective means of improving productivity, which must be seriously considered by manufacturing companies wishing to become and remain competitive. It should also be encouraged in the national interest so that application of appropriate technology can improve our ability to compete in international markets and against cheaper, high quality imports in the domestic market.

Subjects include

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

Course code/title
4190JIA Graduate Certificate in Cleaner Production

Duration
Graduate Certificate: up to two years full-time or part-time.

Campus
Hawthorn.

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

Course overview
This program provides advanced training in the field of cleaner production for applied scientists and engineers and equips graduates with the knowledge, skills and attitudes to enable them to audit, operate and design industrial systems according to the principles of cleaner production.

Subjects include

Further information
TAFE School of Engineering
Department of Mechanical and Automotive Technology
Telephone: (03) 9214 8504
Email: tafeeng@groupwise.swin.edu.au
Website: www.tafe.swin.edu.au/eng/

CONSTRUCTION MANAGEMENT

Course code/title
C082 Graduate Diploma of Engineering (Construction Management)
C092 Master of Engineering (Construction Management)

Duration
Graduate Diploma: one year full-time or two years part-time.
Masters: one and a half years full-time or three years part-time.

Campus
Hawthorn.

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 may also apply.

Course overview
The main aim of this course is to prepare graduates of proven academic ability 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. The achievement of this aim is facilitated by providing a structured study of advanced management and engineering techniques in the fields of construction, building and maintenance.

Subjects include

Professional recognition
Associate Membership of the Australian Institute of Building.

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

Course code/title
S3690KAA Graduate Certificate in Disaster Management
S3690KAB Graduate Diploma in Disaster Management

Duration
Graduate Certificate: 650 hours (self-paced).
Graduate Diploma: 1300 hours (self-paced).

Campus
Distance Education.

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

Course overview
The Graduate Certificate is designed to prepare participants for emergency/disaster management roles in local, regional, national and international settings.

The Graduate Diploma assists professionals to manage emergency response services and to coordinate risk management strategies (loss prevention/profit protection) in business and industry.

The courses emphasise 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 4360:1995 Risk Management Standard. The ISO80000 series and the World Health Organisation (WHO) HACCP standards are also integrated into the delivery of the program.

Subjects include

Further information
The International Disaster Management Centre (IDMC)
Telephone: (03) 9214 5146
Email: aapearce@swin.edu.au
Website: www.tafe.swin.edu.au/indsci/dm

Industrial Engineering

Course code/title
M073 Graduate Certificate of Engineering (Industrial Engineering)
M074 Graduate Diploma of Engineering (Industrial Engineering)
M075 Master of Engineering (Industrial Engineering)

Duration
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: one year full-time or equivalent part-time.
Masters: one and a half years full-time or equivalent part-time.

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

Campus
Hawthorn.

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 may also apply.

Course overview
This program is designed in response to the need in modern society for an engineering approach to solving problems relating to the interplay of people, productivity, information, and management. Industrial Engineering 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. Industrial Engineering is also concerned with performance standards, research of new products, and ways to improve use of resources (people, material and costs). Industrial Engineering’s focus on the financial, human factors and information technology in the design and operation of integrated systems, involves a thorough understanding of behavioural, social and environmental sciences.

Subjects include

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

Industrial Information Technology

Course code/title
M060 Graduate Certificate of Engineering (Industrial Information Technology)
M061 Graduate Diploma of Engineering (Industrial Information Technology)
M062 Master of Engineering (Industrial Information Technology)

Duration
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: one year full-time or equivalent part-time.
Masters: one and a half years full-time or equivalent part-time.

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

Campus
Hawthorn.

Entry requirements
A degree in engineering or science/computer science from a recognised tertiary institution (or approved equivalent). Applicants who do not hold an appropriate qualification but who have considerable relevant work experience may also apply.

Course overview
The Graduate Certificate prepares professionals for working in IT areas within the industrial environment. The course emphasises the acquisition of industry-recognised competency, leading to certification from major industry vendors and organisations.

The Graduate Diploma enables professionals to develop additional skills including project management, process improvement, programming or enterprise requirements planning.

The Masters program is designed to generate high-calibre industry professionals with the capacity to undertake projects in the industrial IT environment. Participants can choose further elective subjects and develop hands-on skills through a project or project and thesis.

Subjects include

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

Course code/title

IRIND1 Graduate Certificate of Engineering (Industry)
IRIND2 Graduate Diploma of Engineering (Industry)
IRIND3 Master of Engineering (Industry)

**Duration**

Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: one year full-time or equivalent part-time.
Masters: one and a half years full-time or equivalent part-time.

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

**Entry requirements**

A degree in engineering/computer science 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.

**Course overview**

This program provides a generic structure within which an individualised course of learning may be designed to best meet both the career aspirations of the student and the human resources development requirements of a current or prospective employer. The program can only be undertaken as part of an industry-oriented learning program, in which a candidate and course advisor develop a mutually agreed program of study.

In the Masters program, the research project brings together skills in new product development. Throughout the course the explicit focus and the context of all work, will be product innovation for manufacturing industry with an emphasis on design of plastic products.

**Subjects include**

The matrix of subjects offered by IRIS under its COL program is considerable and ranges from product design innovation to robotics and automation, computer integrated manufacture, information technology, industrial engineering and management.

**Further information**

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

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**LOGISTICS**

Course code/title

C086 Graduate Certificate of Technology (Logistics)
C076 Graduate Diploma of Technology (Logistics)
C086 Master of Technology (Logistics)

**Duration**

Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: one year full-time or equivalent part-time.
Masters: one and a half years full-time or equivalent part-time.

**Entry requirements**

A degree in engineering from a recognised tertiary institution (or approved equivalent). Applicants with other qualifications and experience may also qualify for entry.

**Course overview**

This program is designed to meet the needs of applicants who have an association with the industry; to enhance their career opportunities and enable them to make a more effective contribution to a key industry. Industrially based applicants will be able to develop expertise in the technical and managerial aspects of the industry. Recent graduates can gain knowledge of the industry to prepare them for a role in logistics. The use of industrial practitioners to bring current case studies into the class for presentation and discussion will be a particular feature of many of the subjects; thereby keeping the course relevant.

**Subjects include**


**Further information**

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

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**METROLOGY AND QUALITY**

Course code/title

IRMQ1 Graduate Certificate in Metrology and Quality
IRMQ2 Graduate Diploma in Metrology and Quality
IRMQ3 Master of Technology (Metrology and Quality)

**Duration**

One semester full-time or equivalent part-time.

**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 may also apply.

**Course overview**

This is a unique course covering 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.

**Subjects include**

Experimental Analysis, Measurement Systems, Calibration, Documentation and Laboratory Management, Metrology and Quality Practices. The first three subjects are delivered via distance education.

**Further information**

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

Course code/Title
E102 Graduate Certificate of Engineering (Microelectronic Engineering)
E101 Graduate Diploma of Engineering (Microelectronic Engineering)
E100 Masters of Engineering (Microelectronic Engineering)

Duration
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: one year full-time or equivalent part-time.
Masters: one and a half years full-time or equivalent part-time.

Campus
This program is undertaken across a number of universities: Swinburne University of Technology – Hawthorn campus, RMIT University, LaTrobe University and Victoria University. Each university teaches nominated subjects of the program while enrolment in the program may be taken out at any of the participating institutions. However, the award is taken out with the institution where the final project is undertaken.

Entry requirements
A Bachelor of Engineering 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.

Course overview
This program addresses all aspects of microelectronic technology and aims to produce engineers with the necessary skills and practical experience to satisfy the requirements of the microelectronics industry. The specific aims are to:
- Develop integrated circuit design expertise in embedded systems, digital, mixed signal and system-on-chip design and verification.
- Develop the advanced technical and algorithmic skills necessary to master state of the art microelectronics technology.
- Develop research skills necessary to obtain specialist knowledge of subjects pertinent to integrated circuit design.
- Cultivate logical and lateral thinking that leads to creation and innovation in the pursuit of solutions to engineering problems.

Subjects include
HDL and High Level Synthesis, Integrated Circuit Design, EDA Tools and Design Methodology, Minor and Major Project work.


FURTHER INFORMATION
School of Biophysical Sciences and Electrical Engineering
Website: www.swin.edu.au/bsee

MODELLING AND PROCESS ANALYSIS

Course code/Title
M070 Graduate Certificate of Engineering (Modelling and Process Analysis)
M071 Graduate Diploma of Engineering (Modelling and Process Analysis)
M072 Master of Engineering (Modelling and Process Analysis)

Duration
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: one year full-time or equivalent part-time.
Masters: one and a half years full-time or equivalent part-time.

Campus
Hawthorn.

Entry requirements
A degree or diploma in engineering or science from a recognised tertiary institution (or approved equivalent) or relevant industrial experience.

Course overview
Numerical techniques have been used for many years but they are becoming increasingly important to solve more significant problems in the modern engineering workstations. Therefore, the aim of this course is to advance the knowledge and skills of graduate students in the Modelling and Process Analysis disciplines to comply with the requirements from industry, locally and worldwide. A course of advanced applied subjects coupled with the opportunity to apply these technologies to a research project will provide the student with a solid base of advanced technologies frequently used in modern industry.

Subjects include

FURTHER INFORMATION
School of Engineering and Science
Website: www.swin.edu.au

NETWORK SYSTEMS

Course code/Title
S049 Graduate Certificate of Science (Network Systems)
S059 Graduate Diploma of Science (Network Systems)
S069 Master of Science (Network Systems)

Duration
Graduate Certificate: one semester full-time or two semesters part-time.
Graduate Diploma: one year full-time or two years part-time.
Masters: one and a half years full-time or three years part-time.

Campus
Hawthorn.

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 may initially be admitted to the Graduate Certificate level.

Course overview
The purpose of this nested suite of programs is to address the strong industry demand for professional networking specialists. The focus 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.

Subjects include

FURTHER INFORMATION
School of Biophysical Sciences and Electrical Engineering
Website: www.swin.edu.au/bsee

WEBSITE: www.swin.edu.au
PRODUCT DESIGN INNOVATION

Course code/title
IRPDI1 Graduate Certificate of Engineering (Product Design Innovation)
IRPDI2 Graduate Diploma of Engineering (Product Design Innovation)
IRPDI3 Master of Engineering (Product Design Innovation)

Duration
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: one year full-time or equivalent part-time.
Masters: one and a half years full-time or equivalent part-time.

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

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

Course overview
This program combines aesthetics and other elements of industrial design with engineering design and technology within the domain of product innovation. The program is expected to meet the needs of professionals working in engineering, science or industrial design fields, seeking advanced studies in product design. The Graduate Certificate involves the acquisition of industrial design, computer-based modelling skills and an understanding of design concepts. The Graduate Diploma focuses upon engineering and business management elements in product design innovation.

In the Masters program, the research project brings together skills in new product development. Throughout the course the explicit focus and the context of all work, will be product innovation for manufacturing industry with an emphasis on design of plastic products.

Subjects include

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

RISK MANAGEMENT

Course code/title
M097 Graduate Certificate in Risk Management
M097 Graduate Diploma in Risk Management
M097 Master of Technology in Risk Management

Duration
Graduate Certificate: one year part-time.
Graduate Diploma: two years part-time.
Masters: three years part-time.

Campus
Hawthorn campus and Distance Education.

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

Course overview
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.

Subjects include

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

ROBOTICS AND AUTOMATION

Course code/title
M091 Graduate Certificate of Engineering (Robotics and Automation)
M092 Graduate Diploma of Engineering (Robotics and Automation)
M093 Master of Engineering (Robotics and Automation)

Duration
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: one year full-time or equivalent part-time.
Masters: one and a half years full-time or equivalent part-time.

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

Campus
Hawthorn.

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

Course overview
Graduates of the Certificate will be able to work on the implementation of robotic and non-contact inspection systems in manufacturing.

Graduates of the Diploma will be able to design and implement robotic and automated systems in manufacturing environments.

Graduates of the Masters program will be able to assume a leadership role in the design and operation of robotic and automated systems.

Subjects include

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

**Course code/title**
- Z078 Graduate Certificate of Applied Science (Health Statistics)
- Z189 Graduate Diploma of Applied Science (Health Statistics)

**Duration**
Graduate Certificate: one trimester full-time or equivalent part-time.
Graduate Diploma: two trimesters full-time or equivalent part-time.

**Campus**
Hawthorn. Flexible Learning Mode (off-campus) 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 apply.

**Course overview**
The Graduate Certificate aims to train people without a specialist mathematical or statistical background who wish to work in, or are already employed in, health related areas which require data analytical skills. The emphasis is on practical skills, giving participants the opportunity to become proficient with a variety of statistical tools used in the health sciences. It concentrates on descriptive methods as well as an introduction to statistical inference.

The Graduate Diploma aims to ensure participants: become proficient with a variety of statistical tools used in the health sciences. It concentrates on descriptive methods as well as an introduction to statistical inference.

The Graduate Diploma aims to ensure participants: become proficient within statistical methods as well as an introduction to statistical inference.

The emphasis is on practical skills, giving participants the opportunity to become proficient within statistical methods as well as an introduction to statistical inference.

**Subjects include**
- Basic Statistical Computing
- Survey Research Practice
- Practice of Statistics 1, Introduction to Health Statistics
- Demographic Techniques
- Practice of Statistics 2, Epidemiological Methods
- Analysis of Risks and Rates.

**Further information**
School of Mathematical Sciences
Telephone: (03) 9214 8936
Email: statistics@swin.edu.au
Website: www.swin.edu.au/maths/stats/

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**Housing Management and Policy**

**Course code/title**
- N079 Graduate Certificate of Social Science (Housing Management and Policy)
- N0807 Graduate Diploma of Social Science (Housing Management and Policy)
- N0903 Master of Social Science (Housing Management and Policy)

**Duration**
Graduate Certificate: two years part-time.
Graduate Diploma: one year full-time or equivalent part-time.
Masters: one and a half years full-time or equivalent part-time.

**Campus**
Hawthorn campus

**Entry requirements**
A degree from a recognised tertiary institution (or approved equivalent) and relevant experience. Applicants who do not hold a three year sequence in psychology. Therefore it provides a broad based approach to counselling with a focus on skills training and applications in a variety of work settings.

**Subjects include**
- Housing Management and Administration
- The Australian Housing System
- Housing Policy and Research
- Housing Economics and Finance
- Contemporary Issues in Housing Provision
- Property Management
- Contemporary Issues in Housing Provision
- Commercialisation of Public Enterprise
- Urban Social Theory


**Further information**
Institute for Social Research
Telephone: (03) 9214 5566
Email: rtimms@swin.edu.au
Website: www.ssr.net/

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**Human Services**

**Course code/title**
- N0805 Graduate Diploma of Social Science (Human Services – Counselling)

**Duration**
Two years part-time.

**Campus**
Hawthorn campus

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

**Course overview**
The Counselling course offers high quality training in counselling for people working, or interested in working, in the human services, nursing/health, education, social work or welfare areas. The course is not restricted to graduates with a three year sequence in psychology. Therefore it provides a broad based approach to counselling with a focus on skills training and applications in a variety of work settings.

**Subjects include**
- Counselling: Foundations of Counselling
- Ethical and Social Issues for Counsellors
- Trauma, Loss and Grief Counselling
- Issues for Special Populations
- Advanced Counselling
- Addiction Counselling.

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

Course code/title
GSIM1 Graduate Certificate of Applied Science (Integrative Medicine)
GSIM2 Graduate Diploma of Applied Science (Integrative Medicine)

Campus
Hawthorn and Distance Education.

Duration
Graduate Certificate: one year part-time.
Graduate Diploma: two years part-time.

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

Course overview
This course is designed to provide a general introduction to a number of different complementary therapies.

Subjects include
Introduction to Complementary Medicine, Introduction to Nutritional and Environmental Medicine, Introduction to Musculoskeletal/Physical Medicine and Sports Medicine, Introduction to Acupuncture, Introduction to Herbal Medicine, Introduction to Mind/Body Medicine.

Professional recognition
The Royal Australian College of General Practitioners (RACGP) has allocated CME points in the QA&CE Program for each subject in this course.

Further information
Graduate School of Integrative Medicine
Telephone: (03) 9214 5463/5296
Email: gsim@swin.edu.au

NUTRITIONAL AND ENVIRONMENTAL MEDICINE

Course code/title
GSIM3 Graduate Certificate of Applied Science (Nutritional and Environmental Medicine)
GSIM4 Graduate Diploma of Applied Science (Nutritional and Environmental Medicine)

Campus
Hawthorn and Distance Education.

Duration
Graduate Certificate: one year part-time.
Graduate Diploma: two years part-time.

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

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

Subjects include
Introduction to Nutritional and Environmental Medicine, Biology of Nutrients, Nutrient Therapy in Toxicology and Skin Problems, Environmental Medicine, Nutritional Approaches to Neurological and Degenerative Disorders and Ageing Problems, Nutritional Approaches to Cardiovascular and Respiratory Problems, Nutritional Approaches to Gastrointestinal Problems and Behavioural Problems, Nutritional Approaches to Women’s Health and Paediatric Problems, Nutritional Approaches to Men’s Health and Endocrine Problems, Nutritional Approaches to Musculoskeletal Problems and Sports Nutrition.

Professional recognition
The Royal Australian College of General Practitioners (RACGP) has allocated CME points in the QA&CE Program for each subject in this course.

Further information
Graduate School of Integrative Medicine
Telephone: (03) 9214 5463/5296
Email: gsim@swin.edu.au

PSYCHOLOGICAL STUDIES

Course code/title
LO83 Graduate Diploma of Social Science (Psychological Studies)

Duration
Three years part-time

Campus
Lilydale.

Entry requirements
A degree (any discipline other than psychology) from a recognised tertiary institution (or approved equivalent).

Course overview
This course provides an opportunity for graduates, who have a bachelor degree 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. Students will study alongside undergraduate psychology students and will be assessed to the same standard.

Subjects include

Further information
Lilydale Administration
Telephone: (03) 9215 7000
Email: ldidinfo@swin.edu.au
Website: www.lid.swin.edu.au

FURTHER INFORMATION

Graduate School of Integrative Medicine
Telephone: (03) 9214 5463/5296
Email: gsim@swin.edu.au

Swinburne University of Technology
HEALTH AND HUMAN SERVICES

PSYCHOLOGY

Course code/title
N0912 Postgraduate Diploma of Psychology
N0904 Master of Psychology in Counselling Psychology
N0905 Master of Psychology in Health Psychology

Duration
Diploma: one year full-time or equivalent part-time.
Masters: four years part-time.

Campus
Hawthorn.

Entry requirements
Diploma: a degree from a recognised tertiary institution (or approved equivalent) with a major in psychology approved by the Australian Psychological Society.
Masters: as above plus an APS accredited fourth year in psychology and relevant experience.

Course overview
The diploma level 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.
The Masters (Counselling Psychology) provides high level training in counselling assessment and related skills in counselling settings associated with major life-domains such as relationships, the family, work and education. Graduates gain employment in a wide range of helping and human service settings including: family counselling; community-oriented general counselling services; secondary and post-secondary education; counselling services; organisational and private practice; human service training, research and evaluation; hospital and rehabilitation services.
The Masters (Health Psychology) is intended to prepare graduates for professional practice as health psychologists. Students gain skills, knowledge and experience across a continuum of practice, from public health promotion and disease prevention to client-based services for the physically ill and their families. Graduates gain employment in a range of health settings including hospitals, health care clinics, health promotion agencies of rehabilitation services, and health research organisations.

Subjects include
Masters (Counselling Psychology): Counselling Theory and Skills, Psychological Assessment, Counselling Applications, Supervised Counselling Placement, Professional Ethical and Legal Issues, Aspects of Professional Practice, Diagnosis

Treatment and Referral, Psychology of the Family, Human Services Research and Evaluation, Research Project.

Professional recognition
Diploma: Associate Membership of the Australian Psychological Society, registration as a Probationary Psychologist with the Psychologists Registration Board of Victoria.
Masters: Full membership of the Australian Psychological Society, full registration as a Psychologist in the State of Victoria, and after appropriate supervised practice, membership of the APS College of Counselling Psychologists.
Masters (Health Psychology): Full membership of the Australian Psychological Society, full registration as a Psychologist in the State of Victoria, and membership of the APS College of Health Psychologists after appropriate supervised practice.

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

SOCIAL STATISTICS

Course code/title
Z076 Graduate Certificate of Applied Science (Social Statistics)
Z086 Graduate Diploma of Applied Science (Social Statistics)
Z096 Master of Applied Science (Social Statistics)

Duration
Graduate Certificate: one trimester full-time or equivalent part-time.
Graduate Diploma: two trimesters full-time or equivalent part-time.
Masters: one and a half years full-time or equivalent part-time.

Campus
Hawthorn. Flexible Learning Mode (off-campus) available in some subjects.

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 also apply.

Course overview
This program is designed for graduates in the humanities and social 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 recent training in the area. It concentrates on practical skills and enables participants to broaden their theoretical and practical knowledge in basic areas of social statistics. Graduates are employed in a wide variety of areas including government agencies, market research, education, medical and biological sciences, town planning and social research.

Subjects include

Further information
School of Mathematical Sciences
Telephone: (03) 9214 8936
Email: statistics@swin.edu.au
Website: www.swin.edu.au/maths/stats/
### Multimedia

**Course code/title**
- J076 Graduate Certificate in Multimedia
- J086 Graduate Diploma in Multimedia
- J096 Master of Multimedia

**Duration**
- Graduate Certificate: one semester full-time or two semesters part-time.
- Graduate Diploma: one year full-time or two years part-time.
- Masters: one and a half years full-time or three years part-time.

**Campus**
Hawthorn.

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

**Course overview**
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, web site developer, or e-commerce).

**Subjects include**
- Multimedia Practice, Multimedia Theory, Multimedia Development, Information Architective and Strategy, Computer Based Learnings, Electronic Writing, Writing for the Media, Globalisation, Media and Telecommunications, Human-Computer Interactive, 3D Animation and Special Effects, Software Development 1, Networks and Routing, eCommerce: A Business Perspective, Multimedia Design Technology 1, Major/Minor Project.

**Further information**
School of Biophysical Sciences and Electrical Engineering
Telephone: (03) 9214 8859
Email: bsee@swin.edu.au
Website: www.swin.edu.au/multimedia/

### Multimedia Design

**Course code/title**
- DMMD30 Graduate Certificate of Design
  (Multimedia Design)
- DMMD31 Graduate Diploma of Design
  (Multimedia Design)
- DMMD32 Master of Design (Multimedia Design)

**Duration**
- Graduate Certificate: one semester full-time or equivalent part-time.
- Graduate Diploma: one year full-time or equivalent part-time.
- Masters: two years full-time or equivalent part-time.

**Campus**
Prahran.

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

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

Graduates of the course would have broad based knowledge and specialist skills that will enable them to work at many levels in design consultancies, information technology companies, media and entertainment studios, advertising agencies and government instrumentalities.

**Subjects include**
- Multimedia Design Technology 1 and 2, Individual Multimedia Design Project 1 and 2, Group Multimedia Design Project 1 and 2.

**Professional recognition**
Graduates of the course are eligible for Membership of the Australian Graphic Design Association (AGDA), Membership of multimedia industry Network (mmIN) and Associate Membership of the Design Institute of Australia (DIA).

**Further information**
National School of Design
Telephone: (03) 9214 6755
Email: shuxley@swin.edu.au
**Applied Media**

**Course code/title**
N070 Graduate Certificate of Arts (Applied Media)  
N0804 Graduate Diploma of Arts (Applied Media)

**Duration**
Certificate: one year part-time.  
Diploma: one year full-time or equivalent part-time

**Campus**
Hawthorn.

**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 of Swinburne.

**Course overview**
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. This course provides a broad range of writing and production skills valued in many sectors of the print, broadcasting and electronic media, such as radio production, journalism and information technology. Graduates will be equipped with the kind of digital technology skills likely to be sought after by software developers working in the multimedia industry.

**Subjects include**
Media Work Experience/Placement or Media Project, Cultural Convergence, Radio Production and Criticism, Writing for the Media, Electronic Writing, Globalisation: Media and Telecommunications, Multimedia Authoring.

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

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**Commercial Radio**

**Course code/title**
N061 Graduate Diploma of Arts (Commercial Radio)

**Duration**
One year full-time.

**Campus**
Hawthorn.

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

**Course overview**
This course is for people who wish to pursue a career in commercial radio broadcasting. Students receive six months 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.

The Graduate Diploma in Commercial Radio has been operating successfully since 1989, with about 80% of graduates securing positions in commercial radio stations across Australia as announcers, journalists, creative writers, promotion assistants and sales executives.

**Subjects include**

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

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**Communications**

**Course code/title**
N095 Master of Arts (Communications)

**Duration**
One and a half years full-time or equivalent part-time.

**Campus**
Hawthorn.

**Entry requirements**
A degree from a recognised tertiary institution (or approved equivalent) plus a fourth year of study, or relevant experience.

**Course overview**
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. Graduates find employment in media, information technology and telecommunications companies, as well as policy, advertising and education.

**Subjects include**
Globalisation: Media and Telecommunications, Cultural Convergence, plus an elective (Professional Production, Workplace Practice, Writing for the Media, Multimedia Authoring, Electronic Writing) and a minor thesis.

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

Course code/title
N096 Master of Convergent Communications

Duration
One and a half years full-time or equivalent part-time.

Campus
Hawthorn.

Entry requirements
A degree from a recognised tertiary institution (or approved equivalent) plus a fourth year, or relevant experience.

Course overview
This pioneering program draws upon many disciplines and is contemporary in its focus and scope. Its academic foundation is based on ideas of the ‘new economy’ and the nature of a post-industrial society built around contemporary communications. There is a strong emphasis on major strategic considerations related to communications in the next decade and beyond. Content is cutting-edge and highly challenging—new networks and new communications platforms, investment practices and competition policies, alliances and mergers, e-enterprises, multimedia design, cultural change and communication policy reform.

Subjects include
Convergent Communications: New Economy and Regulation, New Networks and Infrastructure, The User Environment.


International elective subjects include: Asian Communications, Canadian Communications Policy, United States Communications Policy, European Communications Policy, Convergence and International Communications Policy.

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

Graduate Certificate
- Astronomy

Graduate Diploma
- Astronomy

Masters (by coursework)
- Astronomy
- Computational Chemistry/Biomolecular Design

Business, Innovation and Management

Graduate Certificate
- Accounting and Finance
- Applied Business
- eBusiness and Communication
- Entrepreneurship and Innovation
- Executive Administration
- Flexible Delivery
- General Management
- Human Resource Management
- Management of International Education
- Marketing
- Quality Management
- Strategic Foresight

Graduate Diploma
- Accounting and Finance
- eBusiness and Communication
- Entrepreneurship and Innovation
- General Management
- Human Resource Management
- Marketing
- Strategic Foresight

Masters (by coursework)
- eBusiness and Communication
- Entrepreneurship and Innovation
- Human Resource Management
- Marketing
- MBA
- Strategic Foresight

Professional Doctorate
- Business Administration (DBA)

Computing and Information Technology

Graduate Certificate
- Electronic Commerce Systems
- Information Systems Applications
- Information Systems Development
- Internet Software Development

Graduate Diploma
- Electronic Commerce Systems
- Information Systems Applications
- Information Systems Development
- Internet Software Development

Masters (by coursework)
- Information Systems
- Information Technology

Engineering and Technology

Graduate Certificate
- Air Transportation Management
- Aviation Human Factors
- CAD/CAM
- Cleaner Production
- Disaster Management
- Industrial Engineering
- Industrial Information Technology
- Industry-Oriented Learning
- Logistics
- Logistics and Quality
- Microelectronic Engineering
- Modelling and Process Analysis
- Network Systems
- Product Design Innovation
- Risk Management
- Robotics and Automation

Graduate Diploma
- Air Transportation Management
- Aviation Human Factors
- Computer Integrated Manufacture
- Construction Management
- Disaster Management
- Industrial Engineering
- Industrial Information Technology
- Industry-Oriented Learning
- Logistics
- Logistics and Quality
- Microelectronic Engineering
- Modelling and Process Analysis
- Network Systems
- Product Design Innovation
- Risk Management
- Robotics and Automation

Masters (by coursework)
- Air Transportation Management
- Aviation Human Factors
- Computer Integrated Manufacture
- Construction Management
- Disaster Management
- Industrial Engineering
- Industrial Information Technology
- Industry-Oriented Learning
- Logistics
- Logistics and Quality
- Microelectronic Engineering
- Modelling and Process Analysis
- Network Systems
- Product Design Innovation
- Risk Management
- Robotics and Automation

Health and Human Services

Graduate Certificate
- Health Statistics
- Housing Management and Policy
- Integrative Medicine
- Nutritional and Environmental Medicine
- Social Statistics

Graduate Diploma
- Health Statistics
- Housing Management and Policy
- Human Services – Counselling
- Integrative Medicine
- Nutritional and Environmental Medicine
- Psychological Studies
- Psychology
- Social Statistics

Masters (by coursework)
- Counselling Psychology
- Health Statistics
- Housing Management and Policy
- Social Statistics

Professional Doctorate
- Counselling Psychology
- Health Psychology

Multimedia

Graduate Certificate
- Multimedia
- Multimedia Design

Graduate Diploma
- Multimedia
- Multimedia Design

Masters (by coursework)
- Multimedia
- Multimedia Design

Social Sciences and Arts

Graduate Certificate
- Applied Media

Graduate Diploma
- Applied Media
- Commercial Radio

Masters (by coursework)
- Communications
- Convergent Communications

Honours Programs

(Please specify which Honours program)

Note: for further information on Masters/PhD (by Research) contact the relevant school/institute.

For further information on Swinburne’s postgraduate courses please tick the appropriate box, complete the coupon below and mail/facsimile this page to: Marketing Department, Swinburne University of Technology, PO Box 218, Hawthorn, Victoria, 3122, or facsimile: (03) 9214 8447.

Alternatively, call Swinburne’s Information Office on 1300 368 777, or email: info@swin.edu.au

Name: ......................................................................................................................

Street Address: ....................................................................................................

Suburb: ...................................................................................................................

Postcode: ..............................................................................................................

Telephone (Business Hours): .............................................................................

Email: ....................................................................................................................

August 2011

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