Postgraduate programs in
**Information Technology**

SWINBURNE UNIVERSITY OF TECHNOLOGY

# NEED AN UPGRADE FOR YOUR I.T. CAREER?

**swinburne.edu.au/postgrad**

# POSTGRADUATE PROGRAMS IN INFORMATION TECHNOLOGY

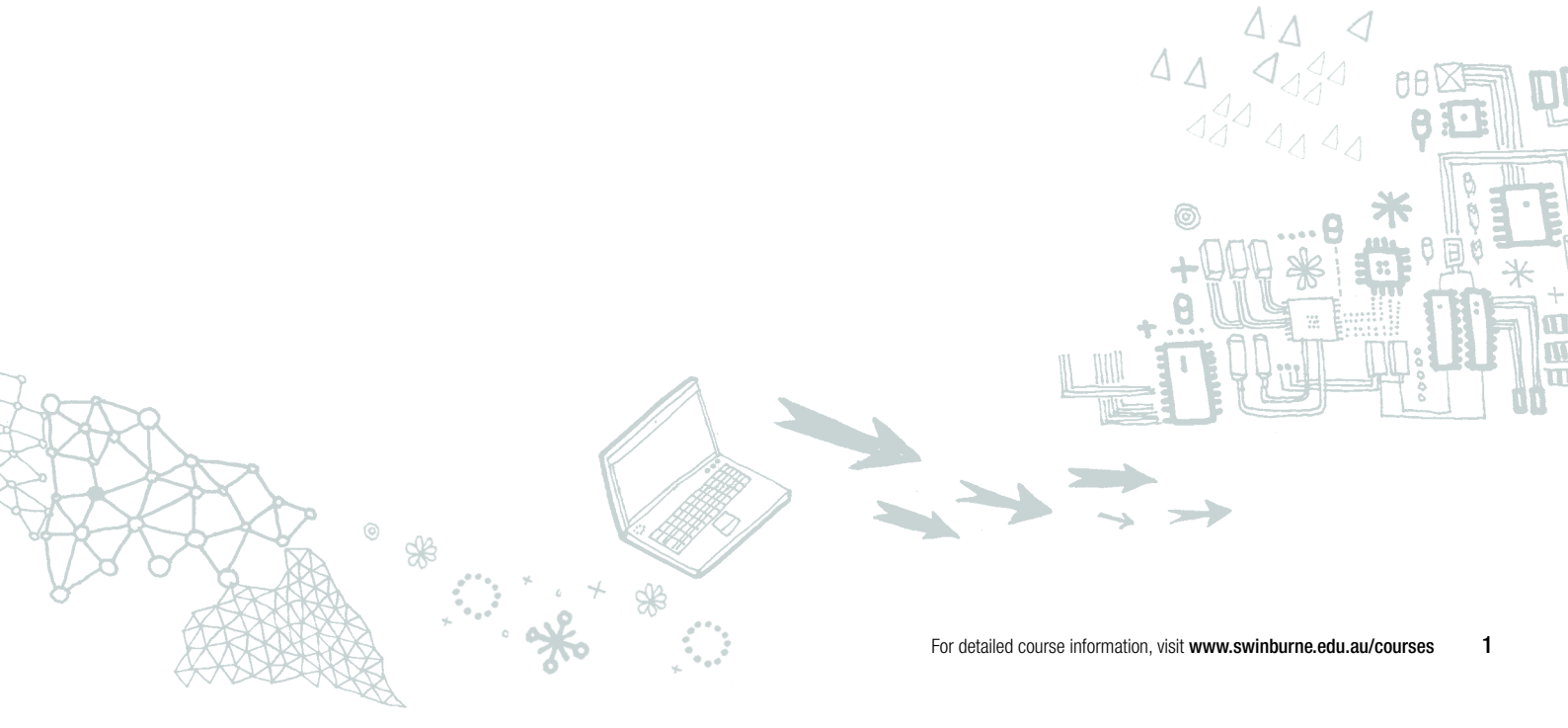
Organisations today are reliant on Information Technology for the conduct of their business. Information Technologies offer tremendous opportunity to enhance business effectiveness and efficiency.

Swinburne's postgraduate IT programs have been designed to support those whose ambition is to assume senior technical or management roles in organisations. These programs aim to provide the knowledge and skills required to ensure that graduates can design, develop and maintain complex systems using state-of-the-art technologies and methodologies.

## Program at a glance

| INFORMATION TECHNOLOGY | |
|---|---|
| **Award** | Master of Information Technology<br>Graduate Diploma of Information Technology<br>Graduate Certificate of Information Technology |
| **Focus** | General IT with possibilities for specialisation |
| **Suitable for** | Master: those with an IT degree who want advanced knowledge<br>Graduate Diploma: those wanting base level qualifications in IT or those with an IT degree who want advanced knowledge<br>Graduate Certificate: Those in either of the above groups |
| **Average duration** | Master – 2 years full-time or 4 years part-time<br>Graduate Diploma – 1 year full-time or 2 years part-time<br>Graduate Certificate – 6 months full-time or 1 year part-time |
| **Location** | On campus |
| **Entry requirements** | A degree from a recognised tertiary institution or approved equivalent* |
| **Work experience** | Preferred, but not essential |
| **Structure** | Master – 16 units<br>Graduate Diploma – 8 units<br>Graduate Certificate – 4 units |
| **2011 fees** | $2100 per unit of study |
| **Intake** | February and August |

*Applicants who do not have appropriate qualifications but who have relevant work experience are encouraged to apply. They may be granted entry into the graduate certificate or graduate diploma level and upon successful completion can continue into the Master.



# Program details

MASTER OF INFORMATION TECHNOLOGY

GRADUATE DIPLOMA OF INFORMATION TECHNOLOGY

GRADUATE CERTIFICATE OF INFORMATION TECHNOLOGY

The Master of Information Technology (MIT) program provides a wide scope for IT specialists or recent graduates wishing to optimise their career path. Students may choose a general program of study or alternately undertake a specialisation preparing graduates for focused career opportunities.

The program provides students with a broad range of studies enabling selection of units across a wide spectrum of disciplines. Specialisation opportunities include: Java and .NET development, web application development, information systems and network design and security. Each area provides students with the ability to consolidate their skills and adapt to change in the work place.

The wide range of disciplines means that students can undertake units in a broad range of areas including Internet computing, advanced Java and J2EE, information systems modelling and development, enterprise and systems architecture, security, information systems management, human-computer interaction, .NET technology, computer networks, object oriented software development and service oriented computing. Students also have the opportunity to undertake a research project.

Swinburne's program has a range of features including:

- Equipping students with the tools to enter a range of technical and business focused IT careers
- Full-time and part-time delivery
- Course content designed in consultation with industry to meet the needs of employers and market demand
- Students may exit with the Graduate Certificate of Information Technology after completion of four units and the Graduate Diploma of Information Technology after completion of eight units.
- Highly interactive and dynamic classes, delivered by experienced practitioners and academics

## Professional recognition

This program is accredited at the Professional Level (the highest level) with the Australian Computer Society (ACS).

## Career opportunities

This program addresses the issues and technologies that are being widely adopted in industry. Graduates will be equipped for employment in IT and network positions.

## Admission requirements

A degree in any discipline from a recognised tertiary institution or approved equivalent, or four years of relevant work experience.

## Location

Hawthorn campus

## Program length

### Graduate Certificate

Six months full-time or equivalent part-time*

### Graduate Diploma

One year full-time or equivalent part-time*

### Master

Two years full-time or equivalent part-time.*

** Some subjects will be only offered during working hours depending on availability.*

## Time commitment

Typical contact time is 3-4 hours per week per unit enrolled. At least that much time is also needed for self study.

## Assessment

Most units have progressive assessment e.g. assignments and a final examination.

## Program structure

The Master degree consists of 200 credit points (16 units). Each unit is valued at 12.5 credit points. A maximum of eight exemptions (100 credit points) are available in this program.

The program is run in two stages: Stage 1 provides foundation studies and Stage 2 provides advanced studies. The postgraduate units of study are categorised as Level 2 or 3.

### Stage 1

Students must complete eight level 2 units (100 credit points) which is made up of six core units (75 credit points) and two elective units (25 credit points).

Students completing Stage 1 may exit with the Graduate Diploma of Information Technology.

### Stage 2

Students complete eight units of study (100 credit points) comprising of two Level 2 elective units (25 credit points), two Level 3 core units (25 credit points and four Level 3 elective units (50 credit points).

Students completing Stage 2 exit with the Master of Information Technology.

The program is available in both full-time and part-time (5.30pm to 9.30pm) modes. Evening classes are available in most units of study at least one semester each year and entry is possible in both Semester 1 (February) and Semester 2 (August).

Exemptions may be granted to those students who apply for an exemption on the basis of work experience or completed studies. Normally a maximum of 100 credit points of exemptions can be granted, none from Stage 2.

In the following situations the faculty will generally require the student to undertake an alternative unit of study at the equivalent level instead of granting an exemption:

- students applying for exemptions based on previous studies completed outside Australia;
- students applying for exemptions for core Stage 2 units of study on the basis of prior knowledge or experience. For example, any student with more than two years experience working in the IT profession may not be required to take HIT8044 and/or a project unit and will undertake alternative Level 3 electives instead

## Units of Study:

| LEVEL 2 ELECTIVE UNITS OF STUDY<br>*In Stage 2 Students may complete up to 25 credit points of Level 2 units of study.* | |
|---|---|
| HIT6037 | Software Development in Java |
| HIT6316 | Usability |
| HIT6323 | Web Programming |
| HIT6405 | Requirements, Analysis and Modelling |
| HIT7037 | Programming in Java |
| HIT6416 | Enterprise Systems |
| HIT7407 | Information Systems Project Management |
| HIT7412 | Business Information Systems Analysis |
| HIT7422 | Database Systems |
| HET706 | Networks and Routing |
| HET710 | Network Administration |

**Stuart Upton**
**Master of Information Technology**

Swinburne has, in my mind, always had a good name for technology. Also, as a smaller university, I felt I would get more personal attention than I perhaps would at one of the larger universities.

I particularly liked the portfolio based units – they offered a wide scope of learning material, and allowed me to focus on areas that were of particular interest to me. I liked the fact that the lecturers were approachable, and more than happy to go out of their way to assist me. As a part-time student with a full-time job and family, I found the Blackboard system with online lecture notes and discussion boards very helpful.

| LEVEL 3 CORE UNITS OF STUDY | |
|---|---|
| HIT8044 | Professional Issues in Information Technology |
| HIT8071 | Professional Project |
| HIT8427 | Configuring Business Information Systems Solutions |

| LEVEL 3 ELECTIVE UNITS OF STUDY | |
|---|---|
| HET708 | Internetworking Technologies |
| HIT7462 | Contemporary Issues in Business Analysis* |
| HIT7702 | Enterprise Network Server Administration |
| HIT7703 | Enterprise Services and Security |
| HIT8023 | Human Computer Interaction |
| HIT8057 | Software Testing and Reliability |
| HIT8060 | Systems Project Management* |
| HIT8066 | Software Tools |
| HIT8087 | Advanced Java |
| HIT8099 | Enterprise .NET |
| HIT8119 | Enterprise Java |
| HIT8121 | Internet Security |
| HIT8156 | Software Process Improvement |
| HIT8159 | Software Quality Management |
| HIT8166 | Software Testing Processes and Automation |
| HIT8186 | IS Governance and Strategy* |
| HIT8197 | Advanced .NET Programming |
| HIT8243 | Games Programming |
| HIT8303 | Data Structures and Patterns |
| HIT8304 | Database Programming |
| HIT8324 | Web Application Development |
| HIT8325 | Web Application Architectures |
| HIT8328 | Software Development for Mobile Devices |
| HIT8405 | Business Process Modelling |
| HIT8408 | Information Systems Risk and Security |
| HIT8410 | Systems Acquisition and Implementation Management |
| HIT8413 | Business Intelligence |
| HIT8421 | Database Implementation |
| HIT8428 | Database Administration |
| HIT8423 | Enterprise Systems Management |
| HIT8424 | Information Systems Management |
| HIT8425 | Information Systems in SMEs |
| HIT8426 | Enterprise Systems Implementation |
| HIT8463 | Managing the IT Capability* |
| HIT8464 | Delivering IT Business Value* |
| HIT8465 | Managing IT-Enabled Transformation* |
| HIT8478 | Information and Knowledge Management |
| HIT9466 | Advanced Topics in Information Systems Management* |

** These units of study are offered in the Master of Information Systems Management (I098) and are available to MIT students who have at least two years relevant industry experience.*

| RESEARCH UNITS OF STUDY | |
|---|---|
| HIT8067 | Minor Thesis (50 CP) |
| HIT8069 | Research Paper (12.5 CP) |
| HIT8070 | Research Report (25 CP) |
| HIT9010 | Research Methods (12.5 CP) |

Students wishing to undertake research units must present evidence of their capacity for research. Students who are approved to study research units may choose no more than one of HIT8067 Minor Thesis, HIT8069 Research Paper, or HIT8070 Research Report.

## Key staff

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Dr. Rob Allen
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# Program at a glance

| TECHNOLOGY (INFORMATION TECHNOLOGY) | |
|---|---|
| **Award** | Master of Technology (Information Technology) |
| **Focus** | General information technology |
| **Suitable for** | Those who want to move into the IT discipline |
| **Average duration** | Master – 2 years full-time or 4 years part-time |
| **Location** | On campus |
| **Entry requirements** | A degree or Graduate Diploma in a non-information technology discipline from a recognised tertiary institution or approved equivalent. |
| **Work experience** | Preferred, but not essential |
| **Structure** | Master – 12 units |
| **2011 fees** | $2100 per unit of study |
| **Intake** | February and August |

*Applicants who do not have appropriate qualifications but who have relevant work experience are encouraged to apply. They may be granted entry into the graduate certificate or graduate diploma level and upon successful completion can continue into the Master.

# Program details

## MASTER OF TECHNOLOGY (INFORMATION TECHNOLOGY)

The Master of Technology (Information Technology) provides a comprehensive postgraduate professional education in Information Technology (IT) targeted towards those who wish to add IT knowledge and skills to their prior learning. The program includes a general introduction to IT and then provides some opportunities for students to gain specialist skills in particular areas, most notably software development and business information systems.

**This program is divided into two stages.**

**Stage 1** consists of six core units that provide the fundamental knowledge and skills for an IT professional. The core units cover introductory IT, programming, database systems, web development, project management and requirements analysis. Two electives are available allowing students to gain foundation skills in areas of interest. These core units and electives prepare students for the advanced studies in Stage 2.

**Stage 2** includes four more units of study comprising of two core units and two electives. The Stage 2 core units of study include Professional Issues in IT and an IT project unit, both of which contribute significantly to the employability outcomes of this program.

## Professional recognition

This program is accredited at the Professional Level with the Australian Computer Society (ACS). The program has been externally checked by the ACS, ensuring it meets the highest standard of the profession and industry.

## Career opportunities

IT roles including: database/design, systems/business analyst, software testing, web design and development.

## Admission requirements

A degree in any discipline from a recognised tertiary institution or approved equivalent or four years of relevant work experience.

## Location

Hawthorn campus

## Program length

**Master**

Two years full-time or four years part-time*

** Students may complete the program over one and a half years with the permission of a Program Coordinator*

## Time commitment

Typical contact time is 3-4 hours per week per unit enrolled. At least that much time is also needed for self study.

## Assessment

Most units have progressive assessment e.g. assignments and a final examination.

## Program structure

The Master of Technology (Information Technology) consists of 12 units of study (150 credit points), equivalent to two years of full-time study, or four years part-time. An accelerated program over 1.5 years is also possible, i.e. four units per semester.

**Stage 1** consists of eight Level 2 units of study which are made up of six core units of study (75 credit points) and two elective units (25 credit points).

**Stage 2** consists of a further four units of study which are made up of two core units of study (25 credit points) and two elective units (25 credit points).

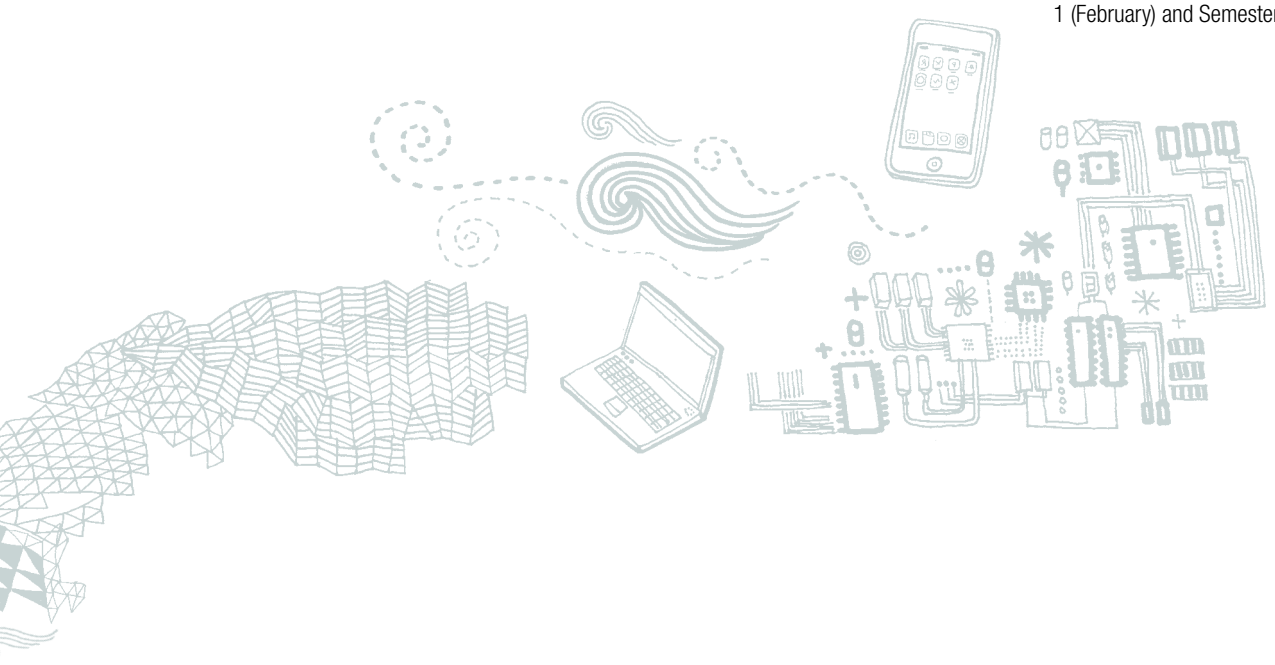
Students may exit with a Graduate Certificate of Information Technology on completion of four units of study. Exemptions cannot be credited towards to the Graduate Certificate award.

Students may exit with a Graduate Diploma of Information Technology on completion of eight units of study providing the core requirements of this program are achieved. A maximum of two exemptions (25 credit points) are available in the Graduate Diploma.

Students who complete the requirements of the Master of Technology (Information Technology) may progress to the Master of Information Technology with the addition of four further advanced units of study.

A maximum of four exemptions (50 credit points) is available in the Master of Technology (Information Technology).

The program is available in both full-time and part-time (5.30 pm to 9.30pm) modes. Part-time mode includes the possibility of studying one unit of study at a time. Evening classes are available in most units of study and entry is possible in both Semester 1 (February) and Semester 2 (August).



## Units of study

| STAGE 1 – LEVEL 2 UNITS | |
|---|---|
| Core units (75 credit points) | |
| HIT5301 | Algorithmic Problem Solving, *OR* |
| HIT5404 | Introduction to Programming in .NET |
| HIT5401 | Introduction to Business Information Systems, *OR* |
| HIT6322 | Enterprise Technologies and Architectures |
| HIT5091 | Web Development |
| HIT6402 | Database Analysis and Design |
| HIT6405 | Requirements, Analysis and Modelling |
| HIT7407 | Information Systems Project Management |
| **ELECTIVE UNITS (25 CREDIT POINTS)** | |
| HET706 | Networks and Routing |
| HET710 | Network Administration |
| HIT6037 | Software Development in Java |
| HIT6316 | Usability |
| HIT6323 | Web Programming |
| HIT6416 | Enterprise Systems |
| HIT7412 | Business Information Systems Analysis |
| HIT7422 | Database Systems |
| HIT7425 | Business Systems Programming in .NET |

| STAGE 2 – LEVEL 3 UNITS | |
|---|---|
| Core units (25 credit points) | |
| HIT8044 | Professional Issues in Information Technology |
| HIT8071 | Professional Project, *OR* |
| HIT8427 | Configuring Business Information Systems Solutions, *OR* |
| HIT9326 | Internship Project |
| Elective units (25 credit points) | |
| HET708 | Internetworking Technologies |
| HIT7702 | Enterprise Network Server Administration |
| HIT7703 | Enterprise Services and Security |
| HIT7462 | Contemporary Issues in Business Analysis* |
| HIT8023 | Human Computer Interaction |
| HIT8057 | Software Testing and Reliability |
| HIT8060 | Systems Project Management* |
| HIT8066 | Software Tools |
| HIT8087 | Advanced Java |
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| HIT8425 | Information Systems in SMEs |
| HIT8463 | Managing the IT Capability* |
| HIT8464 | Delivering IT Business Value* |
| HIT8465 | Managing IT-Enabled Transformation* |
| HIT8478 | Information and Knowledge Management |

** Master of Technology students must meet particular work experience requirements for enrolment into these units.*

## Key staff

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Dr. Rob Allen
Coordinator Information Technology
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Telephone: 9214 8587

# General information

## Facilities

As a Swinburne student you will automatically gain access to a range of facilities. These include a well-resourced library, computer laboratories, fitness and health facilities, personal and career counselling, housing, employment and financial advice.

## Fees

In 2011, tuition fees for this program are based on $2100 per 12.5 credit point unit of study. In the event that a unit of study is derived from another program, the applicable fee will be that of the other program. All fees are reviewed each year and may increase without notice

| Master of IT | Units | Fees |
|---|---|---|
| **Graduate certificate** | 4 | A$8,400 |
| **Graduate diploma** | 8 | A$16,800 |
| **Master** | 16 | A$33,600 |

| Master of Technology (IT) | Units | Fees |
|---|---|---|
| **Master** | 12 | A$25,200 |

The Higher Education Loan Program (HELP) is a suite of income-contingent loans for Australian citizens and holders of Australian permanent humanitarian visas. FEE-HELP is available to eligible fee-paying undergraduate and postgraduate students. It provides students with a loan to cover their tuition fees (lifetime maximum $85,062 from 1 January 2010). The FEE-HELP limit is indexed on 1 January each year.

For all fee enquiries and up-to-date information, go to: **www.swinburne.edu.au/studentoperations/fees**

## FEE-HELP

FEE-HELP is a government-funded loan that helps eligible fee-paying students pay their tuition fees.

FEE-HELP is not available to New Zealand citizens and most holders of Australian permanent visas, however is available to Australian citizens and holders of a permanent humanitarian visa.

For further information visit: **www.goingtouni.gov.au**

## Application procedure

You may lodge your application at anytime, however each of the intake periods has an application submission closing date. Application forms can be obtained by phoning 1300 275 794 or visit **www.swinburne.edu.au/postgrad/apply**

Applications must be accompanied by a certified copy of your passport or birth certificate, original transcripts of official results and a curriculum vitae.

For the next round of closing dates visit **www.swinburne.edu.au/postgrad**

## International students

If you want to study at Swinburne, but are not an Australian resident, contact Swinburne International on 1800 897 973 (within Australia) or +61 3 8676 7002 (outside Australia) or email international@swinburne.edu.au or visit: **www.swinburne.edu.au/international**

## Recognition of Prior Learning

Recognition of Prior Learning (RPL) allows students to be granted credit or partial credit towards a qualification in recognition of skills and knowledge gained through work experience, tertiary qualifications and/or formal training.

## Further information

Telephone: 1300 275 794
Email: postgrad@swinburne.edu.au
Website: www.swinburne.edu.au/postgrad

## Application closing dates

Semester 1 – 4 February 2011

Semester 2 – 15 July 2011

Please note these dates were correct at the time of printing but are subject to change. Visit **www.swinburne.edu.au/studentoperations/calendar** for current semester dates.

## INFORMATION SESSIONS

Information sessions are held regularly throughout the year. They are a great opportunity to meet and talk to staff about your postgraduate study options.

The sessions help you understand what your chosen postgraduate program entails – what you can learn and what your study options are and where your qualification may take you.

For session dates visit
**www.swinburne.edu.au/postgrad**
or call us on 1300 ASK SWIN

### Where we are

**Hawthorn campus**
John Street,
Hawthorn Vic 3122

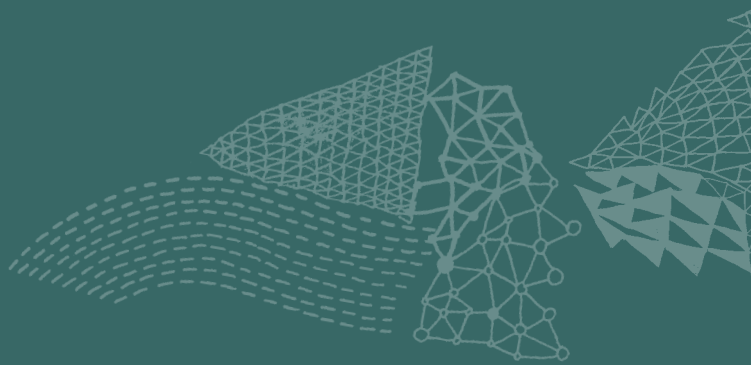
**Lilydale campus**
Melba Avenue,
Lilydale Vic 3140

**Prahran campus**
144 High Street,
Prahran Vic 3181

### Questions?

1300 ASK SWIN
(1300 275 794)
postgrad@swin.edu.au
www.swinburne.edu.au

For information on
postgraduate events visit:
www.swinburne.edu.au/pgrad



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