Information technology

Organisations rely on information technology (IT) to conduct business – this industry offers great opportunity to enhance business effectiveness and efficiency.

Swinburne’s postgraduate IT program is designed to support those whose ambition is to assume senior technical or management roles in organisations. It provides the knowledge and skills required to ensure that graduates can design, develop and maintain complex systems using state-of-the-art technologies and methodologies.

The Swinburne University Centre for Computing and Engineering Software Systems (SUCCESS) is a major research centre achieving world-renowned software innovation and engineering solutions. Graduates of the postgraduate information technology program may explore research opportunities with SUCCESS.

Swinburne is ranked among the top three universities in Melbourne by the Academic Ranking of World Universities 2012.
Program details

- Master of Information Technology
- Master of Technology (Information Technology)
- Graduate Diploma of Information Technology
- Graduate Certificate of Information Technology

The information technology (IT) postgraduate program provides a wide scope for IT specialists or recent graduates wishing to optimise their career path. It addresses issues and technologies that are widely adopted in industry. The diversity of the program enables students to select units across a 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
- service oriented computing.

The Master of Technology (Information Technology) provides a comprehensive postgraduate professional education in information technology. This program is suitable for students wishing to add IT knowledge and skills to their prior learning. It includes a general introduction to IT and offers students specialist skills in software development and business information systems.

Students enrolled in the Master of Information Technology may choose a general program of study or undertake a specialisation to prepare them for focused career opportunities. Each area of study provides students with the ability to consolidate their skills and adapt to change in the work place.

Specialisation opportunities include:

- software development
- information systems analysis and management
- networks.

Course content has been designed in consultation with industry to meet the needs of employers and the market. It is taught by experienced practitioners and academics and equips students with the tools to enter a range of technical and business focused IT careers. Students also have the opportunity to undertake a research project.

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

Career opportunities
Graduates will be equipped for employment in IT and network positions. Roles may include database design, systems analysis, business analysis, software testing, web design or web development.

Admission requirements
A recognised bachelor degree or approved equivalent, or at least four years’ relevant work experience.

Exemptions
Applicants with equivalent postgraduate studies and/or significant work experience may gain exemptions for a maximum:

- 25 credit points (up to two units of study) towards the graduate diploma
- 50 credit points (up to four units of study) towards a Master of Technology (Information Technology)
- 100 credit points (up to eight units of study) towards a Master of Information Technology.

No exemptions will be awarded to students undertaking the graduate certificate.

Exemptions do not apply to stage 2 units.

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 of Technology: Eighteen months full-time or equivalent part-time
Master of Information Technology: Two years full-time or equivalent part-time

Intakes
February and August

Time commitment
Formal contact hours for each unit of study are three to four hours per week. It is expected that students spend an equivalent amount of time completing self-guided study.

Evening classes are available in most units of study at least one semester each year.

Assessment
Most units have progressive assessment, including assignments and a final examination.
Program structure
All units of study are valued at 12.5 credit points unless otherwise stated.

Stage 1 units provide fundamental knowledge and skills for an IT professional. They cover introductory IT, programming, database systems, web development, project management and requirements analysis.

Stage 2 units address professional issues in IT and include an IT project unit. They contribute to graduates' employability outcomes.

Students who wish to undertake research units should seek the approval of the course coordinator.

Students may progress through from the graduate certificate to graduate diploma to master levels.

Successful completion of the graduate certificate requires students to complete four units of study to the value of 50 credit points. Students complete four stage 1 units, of which at least two must be core units.

Successful completion of the graduate diploma requires students to complete eight units of study to the value of 100 credit points. Students complete eight stage 1 units, comprising six core units plus two elective units.

Successful completion of the Master of Technology (Information Technology) requires students to complete 12 units of study to the value of 150 credit points. Students complete eight stage 1 units, comprising six core units plus two elective units, and four stage 2 units, comprising two core units plus two elective units.

Successful completion of the Master of Information Technology requires students to complete 16 units of study to the value of 200 credit points. Students complete eight stage 1 units, comprising six core units plus two elective units, and six stage 2 units, comprising two core units plus four elective units.

Units of study

**STAGE 1**

**CORE UNITS**

- HIT5091 Web Development†
- HIT5301 Algorithmic Problem Solving††
- HIT5401 Introduction to Business Information Systems‡†
- HIT5404 Introduction to Programming in .NET††
- HIT6307 Internet Technologies‡
- HIT6322 Enterprise Technologies and Architectures‡‡
- HIT6402 Database Analysis and Design
- HIT6405 Requirements, Analysis and Modelling
- HIT7407 Information Systems Project Management

**ELECTIVE UNITS**

- HET706 Networks and Routing
- HET710 Network Administration
- HIT6037 Software Development in Java
- HIT6316 Usability
- HIT6323 Web Programming
- HIT6405 Requirements, Analysis and Modelling
- HIT6411 Enterprise Systems
- HIT6630 Cyberlaw Fundamentals†
- HIT6631 eForensic Fundamentals†
- HIT7037 Programming in Java
- HIT7407 Information Systems Project Management
- HIT7412 Business Information Systems Analysis
- HIT7422 Database Systems

**STAGE 2**

**CORE UNITS**

- HIT8044 Professional Issues in Information Technology
- HIT8071 Professional Project†
- HIT8098 Agile Development Project‡
- HIT8416 Industry Project (Analytical)‡
- HIT8427 Configuring Business Information Systems Solutions†
- HIT9326 Internship Project†

**STAGE 2 (CONTINUED)**

**ELECTIVE UNITS**

- HET708 Internetworking Technologies
- HIT6632 eForensic Evidence†
- HIT6633 eForensic Risk Assessment†
- 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
- HIT8164 Internet Networking Infrastructure
- HIT8166 Software Testing Processes and Automation
- HIT8186 Information Systems Governance and Strategy‡‡
- HIT8197 Advanced .NET Programming
- HIT8243 Games Programming
- HIT8304 Database Programming
- HIT8324 Web Application Development
- HIT8325 Web Application Architectures
- HIT8328 Software Development for Mobile Devices
- HIT8329 Creating Data Driven Mobile Applications
- HIT8405 Business Process Modelling
- HIT8408 Information Systems Risk and Security
- HIT8410 Systems Acquisition and Implementation Management
- HIT8413 Business Intelligence
- HIT8419 Decision Analysis Systems
- HIT8421 Database Implementation
- HIT8423 Enterprise Systems Management
- HIT8424 Information Systems Management
- HIT8425 Information Systems in Small and Medium Enterprises
- HIT8426 Enterprise Systems Implementation
- HIT8428 Database Administration
- 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‡‡
<table>
<thead>
<tr>
<th>Unit Code</th>
<th>Unit Title</th>
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<tbody>
<tr>
<td>HIT8067</td>
<td>Minor Thesis*</td>
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<tr>
<td>HIT8069</td>
<td>Research Paper</td>
</tr>
<tr>
<td>HIT8070</td>
<td>Research Report**</td>
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<tr>
<td>HIT9010</td>
<td>Research Methods</td>
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</tbody>
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Note: Some elective units may not be offered every semester.

*Students who wish to undertake research units should seek the approval of the course coordinator. Students complete one of a minor thesis (completed over two semesters), a research paper or a research report (completed over two semesters).

**Unit is valued at 25 credit points.

†Students undertaking the Master of Technology must meet minimum work experience requirements to undertake this unit.

††Students who wish to undertake this unit should seek the approval of the course coordinator.

‡Students can complete one of HIT5301 or HIT5404; they should not complete both units.

‡‡Students can complete one of HIT5401 or HIT6322; they should not complete both units.

^Students can complete one of HIT8071, HIT8416, HIT8427, HIT8098 or HIT9326; they should not complete more than one of these units.
Swinburne has always had a good name for technology. 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.

Stuart
Master of Information Technology
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, and employment and financial advice.

Fees
In 2013, tuition fees for Australian citizens and permanent residents are based on $2300 per 12.5 credit point unit of study. The fee for the Master of Information Technology is therefore $36,800 (including the Master of Technology, the graduate certificate and the graduate diploma). The fee for the Master of Technology (Information Technology) is $27,600 (including the graduate certificate and the graduate diploma). The fee for the graduate diploma is $14,400 (including the graduate certificate); for the graduate certificate it is $9200.

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.

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

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

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

For further information, visit www.studyassist.gov.au

Application procedure
You may lodge your application at any time, but each intake period has an application submission closing date. To obtain an application form, visit www.swinburne.edu.au/postgrad/apply or phone 1300 275 794.

Applications must be accompanied by a certified copy of your passport or birth certificate, a certified copy of academic transcripts, and a current résumé.

To view current 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 +61 3 8676 7002 or 1800 897 973 within Australia.

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.

For more information, visit www.swinburne.edu.au/postgrad

Application closing dates
Semester 1 – early February
Semester 2 – mid July

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.

You can also organise a one-on-one appointment with a course adviser to discuss your study options and where your qualifications may take you.

For session dates visit www.swinburne.edu.au/postgrad

Higher degrees by research
PhD and master by research degrees in information and communication technology (ICT) are also available.

Visit www.swinburne.edu.au/ict/research for more information

Related courses
Prospective students may also be interested in:
- Graduate Certificate in eForensics
- Master of Information Technology Business Analysis
- Master of Information Technology Project Management
- Professional Certificate (Information and Communication Technology)

Visit www.swinburne.edu.au/ict/postgrad for more information

Further information
Telephone: 1300 275 794
Email: postgrad@swinburne.edu.au
Website: www.swinburne.edu.au/postgrad
FURTHER INFORMATION

1300 275 794
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swinburne.edu.au/postgrad

CAMPUSES

Hawthorn campus
John Street, Hawthorn

Prahran campus
144 High Street, Prahran

Melbourne CBD campus
196 Flinders Street, Melbourne

Croydon campus
12–50 Norton Road, Croydon

Wantirna campus
369 Stud Road, Wantirna

Sarawak campus
Kuching, Sarawak, Malaysia