

# Master of Information Technology

[swinburne.edu.au/international](http://swinburne.edu.au/international)

The Master of Information Technology provides the knowledge and skills required to design, develop and maintain complex systems using state-of-the-art technologies and methodologies. It includes a general introduction to ICT and provides the opportunity for students to gain advanced specialist skills in areas such as networks, software development, and information systems analysis and management.

Students also have the opportunity to apply their skills through industry-related project work, including industry-linked projects for real clients. This project work can demonstrate students' skills and knowledge to potential future employers.

## Course snapshot

Duration	Two years full-time
Campus	Hawthorn (Melbourne)
Fees	A\$32,800*
Accreditation	This course is accredited by the Australian Computer Society.
Intakes	March, August

\*Fees displayed are relevant to 2019 and are subject to annual review. Fees are based on a student's study load in each semester. Please see website for more.

## Internship opportunities

Students in this course can apply to undertake an internship as an elective unit. Internships offer students a valuable opportunity to apply practical skills and theoretical knowledge in the workplace during their final semester. Projects may include system design and development, research and development projects, business analysis, testing and IT and network support. Internships are unpaid.

## Entry requirements

- A recognised bachelor degree (students with a related background may be eligible for credit exemptions)
- English language proficiency (please see website for details)

## Scholarship opportunities

Scholarships of up to 25 per cent off tuition fees are available for selected students who apply for and begin this two-year master by coursework program. For more on scholarships, visit [swinburne.edu.au/international/scholarships](http://swinburne.edu.au/international/scholarships)

## Why Swinburne?

A world-ranked university in Melbourne, Australia, Swinburne is focused on creating careers. Upon graduation, our students are career-ready professionals who regularly find employment with the world's best companies, including PricewaterhouseCoopers, IBM, Siemens, Mercedes-Benz and more.

Swinburne is proud to be recognised as one of the world's top universities under 50 years, ranked number 45 in the 2019 QS Top 50 Under 50

Situated in Hawthorn, just ten minutes by train from Melbourne's city centre, Swinburne boasts shops, cafes and a train station right on its doorstep. With high-quality teaching and research, state-of-the-art facilities, student accommodation options and a range of support services, Swinburne is the ideal choice for students.

## Industry connections

For over 50 years, Swinburne University of Technology has been partnering with leading organisations to offer students practical learning and authentic workplace experiences. Our postgraduate programs are co-designed with industry, and many of our students undertake industry-linked projects or projects with their own employers as part of their studies.



*I admire Swinburne's infrastructure, course structure, quality of course delivery and the facilities they offer. No regrets in choosing Swinburne over other universities! There are quite a lot of things to explore, too. Like they have a lot of communities and clubs, and provide free assistance on personal development and careers. I am also fortunate to have been given a scholarship by Swinburne – a significant reduction in my total course fees.*

**Davis from India**

Studying Master of Information Technology

creative  
innovative  
different

KNOW  
ING

## Course overview

You must complete the following units of study:

- 6 IT core units (as below)
- 8 specialisation-specific core units (choose your specialisation)
- 2 IT elective units (choose from a wide range of options – see website for more)

### Core IT units

- Creating Web Applications
- Introduction to Programming
- User-Centred Design
- Introduction to Business Information Systems
- Database Analysis and Design
- Strategic Project Management

## Specialisations

### Data Analytics

Learn how business intelligence and business analytics are used to solve wicked problems and provide business insight. Discover how business agility can be improved through an understanding of big data.

#### Units of study

- Requirements, Analysis and Modelling
- Enterprise Systems
- Database Systems
- Business Process Management
- Business Intelligence and Data Visualisation
- Knowledge Management and Analytics
- Applied Research Methods
- Applied Research Project

#### Career outcomes

Graduates may find employment as business analysts, data analysts, business intelligence analysts, information management specialists, business solutions consultants, business development managers, information architects or project managers.

### Information Systems

Learn how to bridge the gap between the business and the IT function to create solutions for real-world problems with real-time data.

#### Units of study

- Requirements, Analysis and Modelling
- Enterprise Systems
- Enterprise Architecture, Strategy and Governance
- Business Information Systems Analysis
- Business Process Management
- IS/IT Risk Management
- Applied Research Methods
- Applied Research Project

#### Career outcomes

Graduates may find employment as business analysts, information architects or project managers.

## Mobile and Cloud Computing

Learn how to take your software applications into a wireless and cloud-based environment in an effective and efficient manner

#### Units of study

- Object-Oriented Programming
- Data Communications and Security
- Software Development for Cloud Computing
- Web Application Architectures
- Creating Data Driven Mobile Applications
- Web Application Development
- Applied Research Methods
- Applied Research Project

#### Career outcomes

Graduates may find employment as solution architects, application support and systems administrators or IT infrastructure managers.

## Network Management

Specialise in the networking aspect of IT infrastructure.

#### Units of study

- Internet Security
- Networks and Switching
- Network Routing Principles
- Broadband Multimedia Networks
- Mobile and Personal Networking
- Secure Networks
- Applied Research Methods
- Applied Research Project

#### Career outcomes

Graduates may find employment as IT administrators or coordinators, network operations analysts, network security administrators, network or user support technicians, or network programmers.

## Software Development

Learn how to develop software that improves our lives and lifestyles.

#### Units of study

- Object-Oriented Programming
- Data Communications and Security
- Advanced Java
- Software Development for Cloud Computing
- Human-Computer Interaction *or* Software Testing Processes and Automation
- Enterprise Development
- Applied Research Methods
- Applied Research Project

#### Career outcomes

Graduates may find employment as software developers, digital developers, software designers and testers, or systems analysts.

## Software Testing

Focus on ensuring that software solutions meet and exceed expectations in terms of reliability and consistency.

#### Units of study

- Object-Oriented Programming
- Data Communications and Security
- Software Testing Processes and Automation
- Software Testing and Reliability
- Internet Security
- Research Paper
- Applied Research Methods
- Applied Research Project

#### Career outcomes

Graduates may find employment as software testers, systems improvement managers or systems testers.

## System Security and Anti-Hacking

Learn how to safeguard against cyber-attacks and keep your data and information safe.

#### Units of study

- Object-Oriented Programming
- Internet Security
- IS/IT Risk Management
- Network Administration
- Secure Networks
- Enterprise Network Server Administration
- Applied Research Methods
- Applied Research Project

#### Career outcomes

Graduates may find employment as IT security consultants, information security analysts or anti-hacking system managers.



## How to apply

Visit our website for step-by-step application instructions: [www.swinburne.edu.au/international/apply/](http://www.swinburne.edu.au/international/apply/)

## More information

+61 3 9214 8444 (outside Australia)  
1300 275 794 (within Australia)  
[international@swinburne.edu.au](mailto:international@swinburne.edu.au)  
[swinburne.edu.au/it](http://swinburne.edu.au/it)