

# Master of Information Technology (Professional Computing)

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

The Master of Information Technology (Professional Computing) provides student with theoretical knowledge and practical skills related to the design, construction, operation, support and maintenance of information technology (IT) solutions. The course introduces students to state-of-the-art techniques used in the design and construction of IT solutions, as well as the research skills needed to assess the effectiveness of a solution or technology. It also offers students specialist skills to work with IT solutions at an advanced level.

This course provides graduates with knowledge and skills allowing them to seek professional work at an advanced level in the field of information and communication technologies (ICT). It also offers graduates a pathway to research and further learning.

## Course snapshot

Duration	Two years full-time
Campus	Hawthorn (Melbourne)
Fees	A\$24,600*
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 in information technology
- 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.



*Uni is not only about studying, it is an entire life – work, friendships, volunteering, study. Swinburne's Hawthorn campus has been a second home to me, I have lots of good memories here. I've been a student mentor to develop my leadership skills and I'm working as a sessional academic tutor. I'm confident that Swinburne has equipped me properly to start a promising career.*

### John from Egypt

Studying Master of Information Technology (Professional Computing)

creative  
innovative  
different

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## Course overview

You must complete the following units of study:

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

### Core IT units

- Strategic Project Management
- User-Centred Design

## 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

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