



# MASTER OF INFORMATION TECHNOLOGY

[swinburne.edu.au/sydney](https://swinburne.edu.au/sydney)

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 information and communication technologies (ICT) and provides the opportunity for students to gain advanced specialist skills in system security and anti-hacking. 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

**Location:** Sydney

**Intake:** January, May, September

**Fee:** A\$34,760 (annual fee for 2020)\*

\*Fees displayed are relevant to 2020 and are subject to annual review. Fees are based on a student's study load in each semester. Please see website for more information.

## 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

- Recognised bachelor degree in non-IT discipline. This course does not require a cognate degree.
- English language proficiency (please see website for details).

## SCHOLARSHIP OPPORTUNITIES

Scholarships 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](https://swinburne.edu.au/international/scholarships)

## WHY SWINBURNE?

A world-ranked university, Swinburne is focused on creating career-ready professionals who regularly find employment with the world's best companies, including IBM, Mercedes-Benz, Siemens, PricewaterhouseCoopers, and more.

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

Swinburne Sydney is situated in Parramatta, just 30 minutes by train from Sydney's city centre. Parramatta is a major business and commercial centre bustling with retail shops and global eateries. With a wide range of arts and cultural events, it

offers the perfect lifestyle for young professionals and families.

With high-quality teaching and research, state-of-the-art facilities, student accommodation options and a range of support services, Swinburne Sydney 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.

## COURSE OVERVIEW

You must complete the following units of study:

- 6 IT core units (75 credit points)
- 8 specialisation units (100 credit points)
- 2 IT elective units (25 credit points)

### Core IT units

#### Creating Web Applications

Introduces the technology of the World Wide Web and concepts of Client-Server computing. Students will develop dynamic, data-driven websites using both client- and server-side programming languages.

#### Introduction to Programming

Apply code reading and debugging techniques, construct small programs, the use of modular and functional decomposition to break problems down. Students will do independent research topics in programming languages or program structure.

#### User-Centred Design

Apply evidence-based approaches to software requirements, analyse software context, design and build a prototype user interface according to software requirements and usability design principles, apply a variety of usability evaluation methods, develop guidelines for professional practice in the ethical treatment of human research and implement strategies for working in small groups.

#### Introduction to Business Information Systems

Analyse and articulate how technology can be used to assist business, without the technology becoming an end in itself. Looking at information for decision-making, to ensure its usefulness for decision-makers. Gain a strong foundation of business systems, to be able to evaluate the influence of the Internet on business

stakeholders, customers, suppliers, manufacturers, service makers, regulators, managers and employees.

#### Data Management for the Big Data Age

Critically explore modern database design and application in contemporary society. Understanding fundamental principles and techniques required for modern database management and then to develop innovative database solutions to practical problems, through data modelling techniques, and commercial and open-source database tools. The opportunities, challenges, and implications of big data, social media, data analytics, and unstructured data on conventional database systems are explored in parallel.

#### Strategic Project Management

Examines the concepts, issues and challenges that are critical for implementing, maintaining and completing projects successfully. The reasons why organisations are moving towards a project approach and the common methodologies, tools and techniques of project management are critically evaluated. Students will look at how an organisation's individual industry, culture, structure.

### Specialisation

#### 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 Projects

### IT elective units\*

- Networks and Switching
- Data Communications and Security
- Internship Project

\*Choose two units from the following electives. Elective units are still to be finalised.

### CAREER OUTCOMES

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



### HOW TO APPLY

You can submit an online application directly to Swinburne Sydney or through an authorised representative in your country.

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

### MORE INFORMATION

Submit an online enquiry  
From Australia: 1800 595 333  
International: +61 2 9160 7788  
sydneyinfo@swin.edu.au  
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