SWINBURNE UNIVERSITY OF TECHNOLOGY

AUSTRALIA
MALAYSIA

Bachelor of Information and Communication Technology

swinburne.edu.au/international

The Bachelor of Information and Communication Technology provides students with the knowledge and skills to be an information and communication technology (ICT) professional, with particular skills in a chosen area. The course focuses on computer and network configurations, web and application programming, and database design and maintenance. Students also have the opportunity to specialise in a particular aspect of ICT-related work. This course is ideal for students who are seeking an ICT course with flexible outcomes.

Course snapshot

Duration	3 years full-time
Campus	Hawthorn (Melbourne)
Fees	A$31,600 (annual for 2020)*
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.

Career outcomes

There are a large number of job roles available for those with software development qualifications and experience including enterprise systems application developer, quality assurance analyst, project manager, multimedia developer, systems architect, business requirements analyst, technical writer, application integration specialist, user interface analyst, contract manager, data warehouse architect, data mining specialist and help desk manager.

Entry requirements

- English language proficiency
- Completion of Australian Year 12 or equivalent (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**

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. Many of our students undertake industry-linked projects as part of their studies.

"Many universities offer academic knowledge, but not all of them prepare you to be an ICT professional, like Swinburne," says Cindy.

Last semester, in her IT Project class, Cindy took on a brief from a real-world client. In the roles of project leader and database designer, she collaborated with a team of students from other degrees to deliver a solution. Apart from sharpening her programming skills, she says that she has also learnt so much about team dynamics and leadership.

Cindy Wijaya
Bachelor of Information and Communication Technology

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Course overview

You must complete the following units of study:

- 8 core units (as below)
- 8 major units
- 8 elective units

Core units

- Web Development
- Introduction to Programming
- Problem Solving with ICT
- Database Analysis and Design
- Introduction to Business Information Systems
- Information Technology Project
- Professional Issues in Information Technology
- Information Technology Project Management

Majors

Business Systems

Learn about database technologies, informing management on suitable technologies and their deployment.

Units of study

- Requirements Analysis and Modelling
- Database Systems
- Mobile Business and Connectivity
- Enterprise Systems
- Business Intelligence and Data Visualisation
- Business Process Management
- Database Implementation
- Information Systems Risk and Security

Career outcomes

Graduates are able to plan and implement an information system considering requirements of business and management, aspects of systems acquisition, technology options and organisational context.

Network Technology

Specialise in the networking aspect of ICT infrastructure. Gain four Cisco certifications.

Units of study

- Network Administration
- Networks and Switching
- User-Centred Design
- Operating System Configuration
- Network Routing Principles
- IT Security
- Web Application Development
- Enterprise Network Server Administration

Career outcomes

Graduates are able to plan and deploy secure network systems utilising current practices in IP technologies, network security, and scalable server deployment.

Software Technology

Learn how to enhance and maintain existing applications and assist in the choice of software for the needs of an organisation.

Units of study

- Network Administration
- User-Centred Design
- Object Oriented Programming
- Operating System Configuration
- Development Project 1 - Tools and Practices
- IT Security
- Software Development for Mobile Devices
- Interface Design and Development

Career outcomes

Graduates are able to plan and participate in a software development project, design and implement object-oriented software, including software for mobile applications, and consider relevant security and usability aspects.

Systems Analysis

Learn how to redesign business processes and describe the software and web applications that assist in creating more efficient working environments.

Units of study

- Financial Information for Decision Making
- Management Decision Making
- Requirements Analysis and Modelling
- Enterprise Systems
- Systems Acquisition and Implementation Management
- Business Information Systems Analysis
- Business Process Management
- Information Systems Risk and Security

Career outcomes

Graduates are able to plan elicit information about existing or envisaged business processes, analyse these processes from the viewpoints of all stakeholders and advise the stakeholders on possible improvements, providing process models which can be discussed with a client.

Systems Management

Gain the skills to provide for the infrastructure and technology needs of a small organisation. Learn how to lead teams that look after the IT needs in a larger organisation and assist management in technology-related decision-making.

Units of study

- Network Administration
- User-Centred Design
- Operating System Configuration
- Database Systems
- IT Security
- Web Application Development
- Database Administration
- Enterprise Network Server Administration

Career outcomes

Graduates are able to look after a business's software and hardware systems independently. They may find employment as a project manager, multimedia developer, systems architect, data mining specialist or business analyst.

How to apply

Visit our website for step-by-step application instructions: **www.swinburne.edu.au/international/apply/**

More information

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1300 275 794 (within Australia)
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