



Information Technology study guide

Course options and
career opportunities

swinburne.edu.au/it

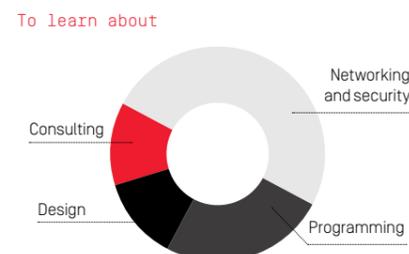
Get IT? Got IT? Good!

A degree in IT can take you anywhere. Look around you. You're surrounded by technology (in a good way, of course). At Swinburne, our IT courses program you with the kind of future-savvy skills that can lead to a career in health, transport, finance, media, manufacturing, energy and so much more.



I want to learn
How to help people communicate online safely and securely

Study
Network security



With a degree
Bachelor of Computer Science (Professional) with a major in cybersecurity with a major in network design
Bachelor of Computer Science with a major in cybersecurity with a major in network design
Bachelor of Information and Communication Technology with a major in network technology with a major in systems management
Pathway to a degree:
Diploma of Information Technology (UniLink)

To become

- Security consultant
- Information security analyst
- Network or systems administrator
- Cybersecurity penetration tester

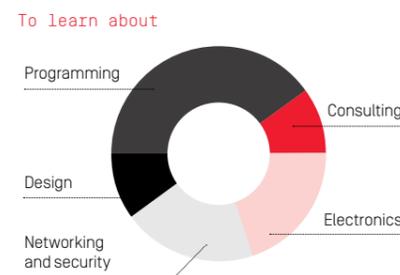
Or a diploma or certificate
Diploma of Information Technology Networking
Certificate IV in Information Technology Networking
Certificate IV in Cyber Security

To become

- IT administrator or coordinator
- Network operations analyst
- Network security administrator
- Network or user support technician
- Network programmer

I want to learn
How to solve problems by analysing data from internet-connected devices

Study
The Internet of Things



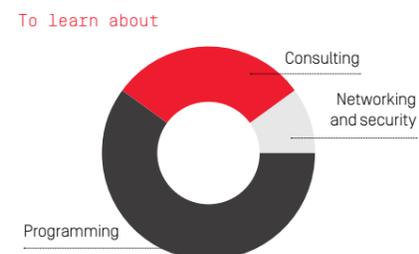
With a degree
Bachelor of Computer Science (Professional) with a major in the internet of things
Bachelor of Computer Science with a major in the internet of things
Bachelor of Information and Communication Technology with a major in software technology
Pathway to a degree:
Diploma of Information Technology (UniLink)

To become

- Mobile application developer
- Full stack software developer
- Solution architect
- Consultant
- Data scientist

I want to learn
How to create software to improve our lives

Study
Software development



With a degree
Bachelor of Computer Science (Professional) with a major in data science with a major in software design with a major in software development
Bachelor of Computer Science with a major in data science with a major in software design with a major in software development
Bachelor of Information and Communication Technology with a major in software technology
Pathway to a degree:
Diploma of Information Technology (UniLink)

To become

- Project manager
- Software designer
- Systems analyst or designer
- Web developer

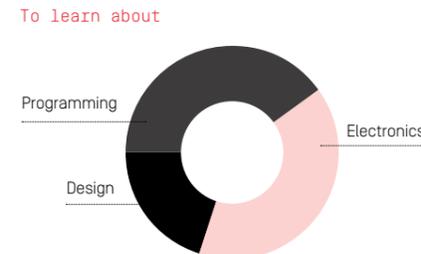
Or a diploma or certificate
Diploma of Information Technology – Web Design and Development
Diploma of Software Development

To become

- IT administrator or coordinator
- Software developer
- Web developer

I want to learn
How to build hardware and program software to solve problems

Study
Software engineering



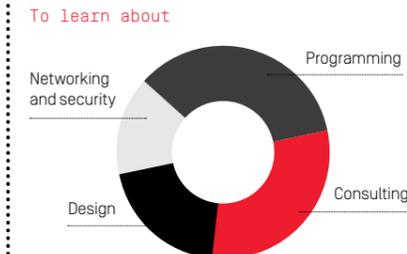
With a degree
Bachelor of Engineering (Honours) (Professional) with a major in software
Bachelor of Engineering (Honours) with a major in software
Pathway to a degree:
Diploma of Engineering (UniLink)

To become

- Embedded systems and mobile application engineer
- Quality assurance engineer
- Software architect or engineer
- Software designer or developer
- Systems engineer

I want to learn
How to code for computer games

Study
Games development



With a degree
Bachelor of Computer Science (Professional) with a major in games development
Bachelor of Computer Science with a major in games development
Pathway to a degree:
Diploma of Information Technology (UniLink)

To become

- Digital content producer
- Games designer or programmer
- Multimedia developer
- Software designer or developer

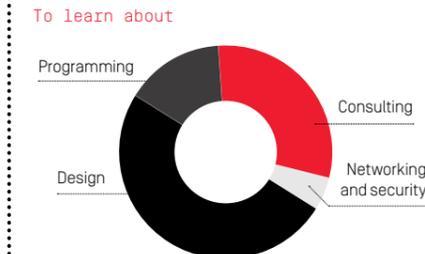
Or a diploma or certificate
Diploma of Digital and Interactive Games
Certificate IV in Digital and Interactive Games

To become

- Concept artist
- 2D & 3D games artist
- 3D animator
- Games developer

I want to learn
How to create game strategy and characters

Study
Games and interactivity



With a degree
Bachelor of Media and Communication (Professional) with a major in games and Interactivity
Bachelor of Games and Interactivity
Bachelor of Media and Communication with a major in games and interactivity
Pathway to a degree:
Diploma of Information Technology (UniLink)

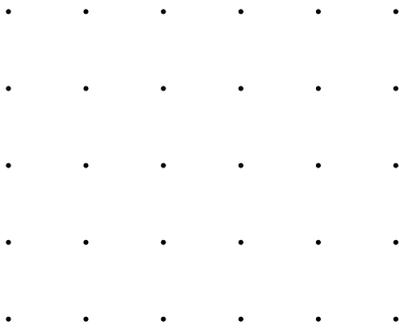
To become

- Digital content producer
- Games designer or programmer
- Multimedia developer
- Online community manager

Or a diploma or certificate
Diploma of Digital and Interactive Games
Certificate IV in Digital and Interactive Games

To become

- Animator
- Games designer
- Games programmer



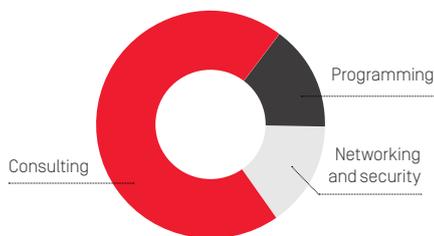
I want to learn

How to manage information in a business

Study

Business information systems

To learn about



With a degree

Bachelor of Information Technology

Bachelor of Business Information Systems

with a major in business analysis
with a major in data analytics

Bachelor of Information and Communication Technology

with a major in business systems
with a major in systems analysis

Pathway to a degree:

Diploma of Information Technology (UniLink)

To become

- Business analyst
- Business development manager
- Information architect
- Project manager

The information provided here was correct at the time of printing (July 2021). For the most up-to-date information, please visit swinburne.edu.au

Your next gen_now upgrades

Guaranteed real industry experience

At Swinburne, your education is more than reading; with our Work Integrated Learning program, it's doing. Start building your résumé with placements, internships and industry-linked projects while you study. Real industry experience is guaranteed in all our bachelor degrees that commence in 2021 and beyond.

Visit swinburne.edu.au/workintegratedlearning

Professional Degrees

More than a standard bachelor degree, a Professional Degree is a premium university experience you'll graduate from having completed a 12-month full-time work placement. Not only will you apply your knowledge in the workplace, you'll be paid award rates and receive academic credit.

Double degrees

Double degrees are a great way to broaden your study experience and are highly respected by employers. They combine two areas of study and on completion you'll be awarded two degrees.

A double degree is generally only one year longer than a single degree.

Consider combining your IT degree with a degree in another study area by studying:

- Bachelor of Business Information Systems/Bachelor of Business
- Bachelor of Engineering (Honours)/Bachelor of Computer Science
- Bachelor of Games and Interactivity/Bachelor of Animation
- Bachelor of Games and Interactivity/Bachelor of Computer Science
- Bachelor of Laws/Bachelor of Business Information Systems
- Bachelor of Laws/Bachelor of Computer Science

Pathways to a degree

UniLink diplomas

UniLink diplomas are equivalent to eight units of study (typically one year of full-time study) and can provide a pathway to the second year of a related bachelor degree.

These courses are an option for students who miss direct entry to a degree or who would benefit from a more supportive style of learning.

Vocational education

Diplomas and certificates are vocational qualifications that provide practical teaching and skills for work. A vocational qualification could prepare you for your first job, help you retain or take the first step in a career change.

Successful completion of a vocational qualification may also allow you to progress to another qualification with advanced standing.

Scholarships

The Vice-Chancellor's Excellence Scholarship is awarded to students in recognition of academic excellence. Recipients will receive \$5000 per annum for the normal duration of their chosen degree, plus a one-off payment of \$2000 towards an international study experience.

Swinburne also offers scholarships to students from indigenous backgrounds, students suffering from financial hardship and students who have relocated from regional areas to study. For a full list of scholarships, including value and eligibility criteria, visit swinburne.edu.au/scholarships