



Information Technology study guide

Course options and career opportunities

swinburne.edu.au/it

Get IT? Got IT?

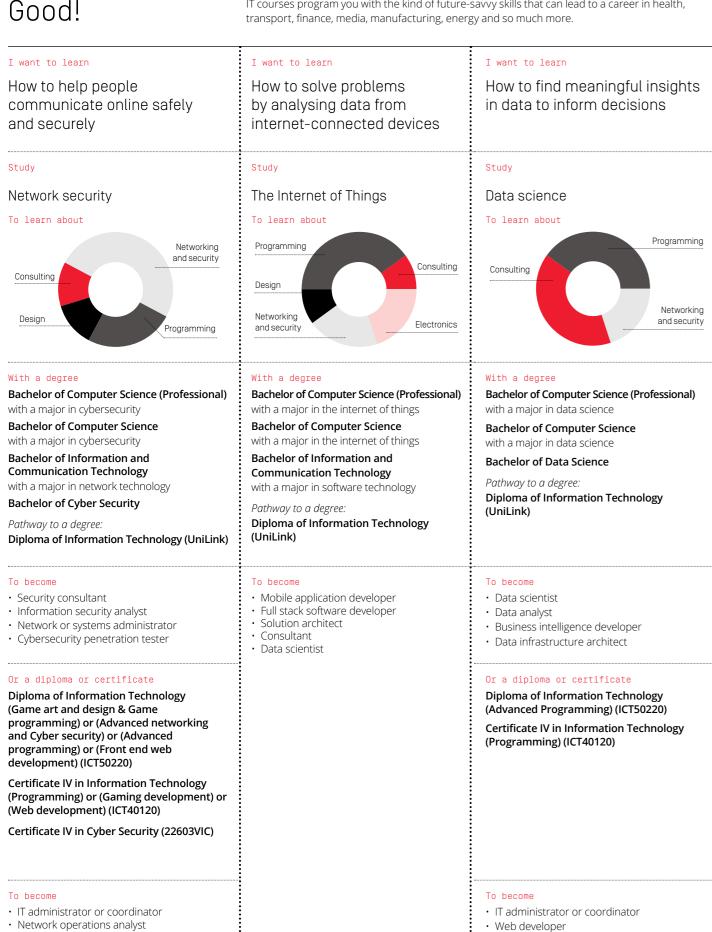
Network security administrator

Network programmer

Network or user support technician

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,



I want to learn I want to learn I want to learn How to create software How to build hardware How to simulate human and program software to improve our lives intelligence in machines to solve problems Study Study Study Artificial intelligence Software development

To learn about

With a degree

(Professional)

Bachelor of Computer Science

Bachelor of Computer Science

Bachelor of Information and

with a major in software technology

Diploma of Information Technology

Communication Technology

Pathway to a degree:

Project manager

Web developer

Software designer

Systems analyst or designer

Or a diploma or certificate

IT administrator or coordinator

Software developer

Web developer

Diploma of Information Technology

(Advanced Programming) (ICT50220)

Certificate IV in Information Technology

(Programming) or (Web Development)

(UniLink)

To become

(ICT40120)

To become

with a major in software development

with a major in software development

To learn about

and security

With a degree

(Professional)

Pathway to a degree:

· Machine learning engineer

· Computer vision engineer

Or a diploma or certificate

(Programming) (ICT40120)

• IT administrator or coordinator

Diploma of Information Technology

(Advanced Programming) (ICT50220)

(Advanced Networking, Cybersecurity) or

Certificate IV in Information Technology

(UniLink)

To become

To become

Software developer

· Web developer

· Data scientist

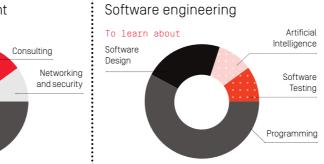
Bachelor of Computer Science

with a major in artificial intelligence

Bachelor of Computer Science

with a major in artificial intelligence

Diploma of Information Technology



with a major in software

Diploma of Engineering (UniLink)

Embedded systems and mobile

Quality assurance engineer

Software architect or engineer

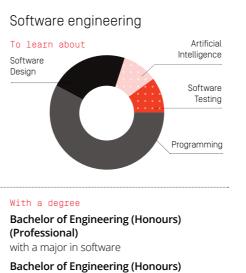
Software designer or developer

application engineer

Systems engineer

Pathway to a degree:

To become



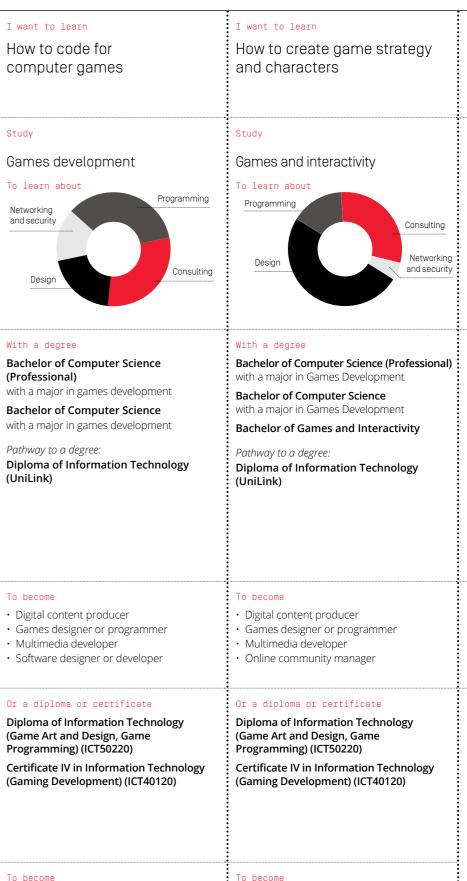


Concept artist

3D animator

Games developer

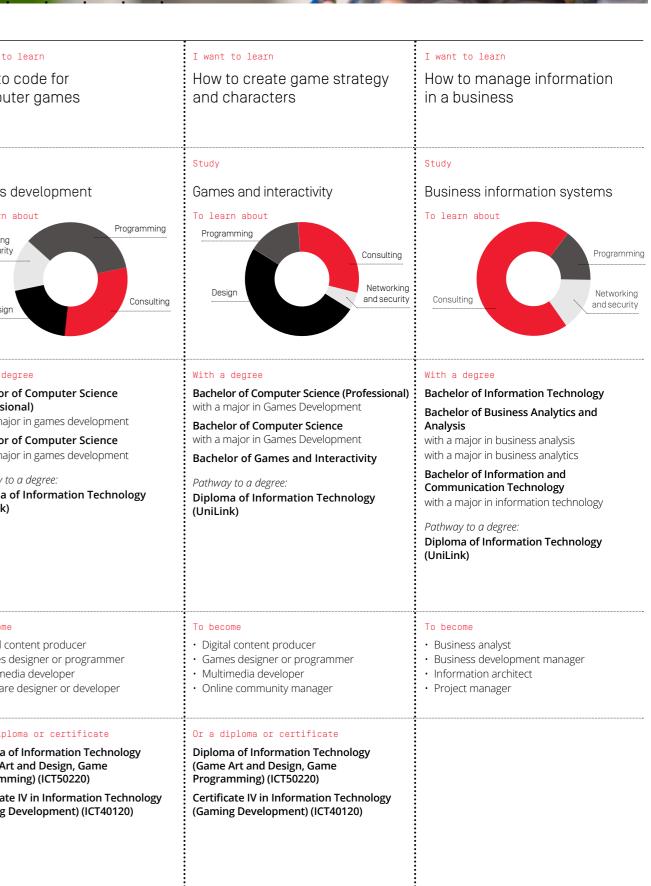
2D & 3D games artist



Animator

Games designer

Games programmer





Learning and leading

"Many universities offer academic knowledge, but not all of them prepare you to be an ICT professional, like Swinburne," says Cindy. In her IT Project class, she 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 faculties 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

Bachelor of Information and Communication Technology

\$1.1M Cisco Networking Academy	Six state-of-the-art labs and 700 Cisco devices
#1 for graduate salary	Our IT grads earn the most of any in Melbourne five years out Graduates Outcomes Survey 2019-2021
81.5% found jobs	within 4 months after completing their course Graduates Outcomes Survey 2019-2021

Professional recognition

Our IT degrees are professionally accredited by the Australian Computer Society (ACS). The Bachelor of Engineering (Honours) with a major in software is professionally accredited by Engineers Australia. Double degrees may provide opportunities for membership of leading industry organisations.





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. You'll be able to apply your learning in all of our Computer Science and Bachelor of Information Technology degrees with six industry project units; that's one every semester. Guaranteed.

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:

- ${\boldsymbol{\cdot}}$ Bachelor of Business Analytics and Analysis/Bachelor of Business
- Bachelor of Business Analytics and Analysis/ Bachelor of Cyber Security
- Bachelor of Criminal Justice and Criminology/ Bachelor of Cyber Security
- Bachelor of Computer Science/Bachelor of Applied Innovation
- · Bachelor of Engineering (Honours)/Bachelor of Computer Science
- Bachelor of Games and Interactivity/Bachelor of Animation
- ${\boldsymbol{\cdot}}$ Bachelor of Games and Interactivity/Bachelor of Computer Science
- Bachelor of Information and Communication Technology/
 Bachelor of Applied Innovation
- Bachelor of Laws/Bachelor of Business Analytics and Analysis
- Bachelor of Laws/Bachelor of Computer Science
- Bachelor of Laws/Bachelor of Cyber Security

Applied innovation double degree

Don't just graduate, innovate. By pairing our Bachelor of Applied Innovation with your IT degree, you'll learn to think like a creator, find opportunities like an innovator and make moves like an entrepreneur.

Visit swinburne.edu.au/applied-innovation

The information contained in this study guide was correct at the time of publication, January 2023. The university reserves the right to alter or amend the material contained in this guide. For the most up-to-date course information please visit our website swinburne.edu.au CRICOS 00111D RTO 3059 TEQSA PRV12148 Australian University SG0005_202301

Deloitte Cyber Academy

Secure the network and your cyber security career with the Deloitte Cyber Academy. Swinburne is partnering with Deloitte to deliver an innovative apprenticeship program launching in 2023.

Blend study with a paid industry employment from your first year and throughout your studies. Build essential cyber security skills, gain valuable industry experience and tap into Deloitte's awardwinning graduate program to (seriously) fast track your cyber security career.

Pathways to a degree

UniLink diplomas

Swinburne UniLink diplomas can offer you seamless connection to a range of our related next-gen degrees – with no extra time or fees.

A Swinburne UniLink diploma could be your pathway to a degree if you:

- · are worried about not getting the ATAR you need
- are looking for a little more support to transition into a degree
- · didn't complete high school in Australia or;
- · missed direct entry to your degree.

After completing the equivalent of eight study units in your UniLink diploma, you can merge straight into your related 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.

Diplomas and certificates

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 retrain or be 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

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