

Information Technology

Study options and
career opportunities

2019

Information Technology study guide

“ I want to learn how to help people communicate online safely and securely ”

Study

Network design and cybersecurity

With a degree

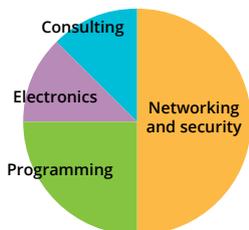
Bachelor of Computer Science (Professional) with a major in Cybersecurity with a major in Network Design

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

Diploma of Information Technology (UniLink) [pathway to a degree]

To learn about



To become

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

Or a diploma or certificate

Advanced Diploma of Computer Systems Technology

Diploma of Information Technology Networking

Diploma of Information Technology – Cloud Computing

Certificate IV in Computer Systems Technology

Certificate IV in Information Technology Networking

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

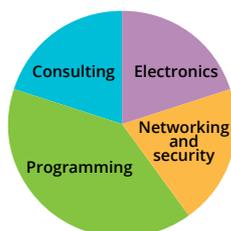
With a degree

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

Diploma of Information Technology (UniLink) [pathway to a degree]

To learn about



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

Programming

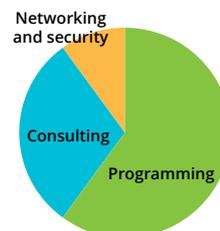
With a degree

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
Diploma of Information Technology (UniLink) [pathway to a degree]

To learn about



To become

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

Or a diploma or certificate

Diploma of Software Development

Diploma of Information Technology – Web Design and Development

Certificate IV in Information Technology – Programming

Certificate IV in Information Technology – Web Design and Development

To become

- IT administrator or coordinator
- Software developer
- Web programmer

“ I want to learn how to build hardware and program software to solve problems ”

Study

Software engineering

With a degree

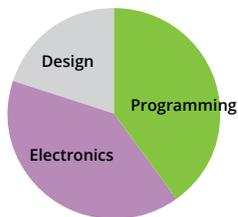
Bachelor of Engineering (Honours) (Professional) with a major in Software

Bachelor of Engineering (Honours) with a major in Software

Bachelor of Engineering Practice (Honours)

Diploma of Engineering (UniLink) [pathway to a degree]

To learn about



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

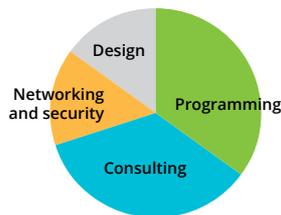
With a degree

Bachelor of Computer Science (Professional) with a major in Games Development

Bachelor of Computer Science with a major in Games Development

Diploma of Information Technology (UniLink) [pathway to a degree]

To learn about



To become

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

“ I want to learn how to create game strategy and characters ”

Study

Games and interactivity

With a degree

Bachelor of Arts (Professional) with a major in Games and Interactivity

Bachelor of Media and Communication (Professional) with a major in Games and Interactivity

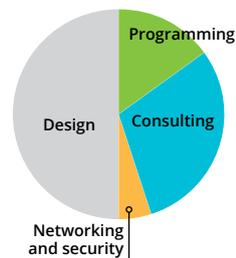
Bachelor of Arts with a major in Games and Interactivity

Bachelor of Games and Interactivity

Bachelor of Media and Communication with a major in Games and Interactivity

Diploma of Information Technology (UniLink) [pathway to a degree]

To learn about



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

THE SWINBURNE ADVANTAGE

At Swinburne, getting you job-ready is at the core of what we do. Our Work Integrated Learning options prepare you for the day-to-day requirements of work, helping you become a more competitive graduate. You'll build invaluable skills, career networks and, most importantly, the confidence of knowing you have what it takes to land a job in your field. This is the Swinburne Advantage.

Visit www.swinburne.edu.au/workintegratedlearning

Professional degrees

Professional degrees are available to students who have completed an Australian Year 12 program. These courses extend the standard degrees to include a professional placement co-major comprising a 12-month work placement. The professional placement co-major is credit-bearing and will strengthen your employability. You'll benefit from Swinburne's unique industry partnerships and be paid during your placement. Look for degrees with (Professional) in the title.

“I want to learn how to manage information in a business”

Study

Business information systems

With a degree

Bachelor of Information Technology

Bachelor of Business Information Systems

with a major in Business Analysis

with a major in Data Analytics

with a major in Data Management

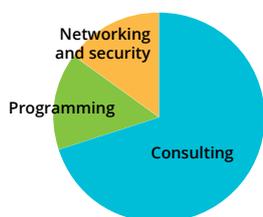
Bachelor of Information and Communication Technology

with a major in Business Systems

with a major in Systems Analysis

Diploma of Information Technology (UniLink)
[pathway to a degree]

To learn about



To become

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

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. They will also have the opportunity to join our High Achievers Program.

To learn more about the program visit www.swinburne.edu.au/highachievers

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

Visit www.swinburne.edu.au/scholarships