Canberra Institute
of Technology

INFORMATION TECHNOLOGY

cit.edu.au

INFORMATION TECHNOLOGY COURSES

Our Information Technology (IT) courses are designed to align with the dynamic needs of today's workforce and the exciting opportunities in Information Communication Technology (ICT).

You will gain cutting-edge skills to administer and manage ICT support, positioning you at the forefront of the industry. Embark on your IT journey with CIT and turn your passion into a vibrant career.

Likely job outcomes

Qualifications in IT can open doors to a diverse range of careers, including:

- ICT Technician
- Project Manager in IT
- Web Developer
- Network or Software Engineer
- Database Developer
- ICT Technician / User Support Technician
- Customer Service Representative
- System Administrator
- Network Administrator
- Network Operations Technician
- Web Developer
- Database Administrator
- Database Developer
- General IT service assistant
- Basic Network Support Administration
- Computer Maintenance Technician
- Web page design assistant
- ICT operations support
- ICT user support

Diploma of Information Technology ICT50220

This course will provide you with the skills and knowledge required to administer and manage ICT support in a small to medium enterprise (SME) using a wide range of IT technologies. It is designed to strengthen and build on your current experiences enabling you to compete complex IT tasks and further develop skills to lead and manage IT projects in Programming and Networking.

The Networking stream will build your skills and knowledge to design, configure, build and maintain networks, implement and manage virtual computing environments while understanding and addressing the necessary security infrastructure requirements and risks.

The Programming stream provides you with intermediate and advanced programming skills to design and construct advanced user interfaces addressing organisational requirements, including developing and maintaining website information architecture and data analysis. There are no formal entry requirements for this qualification. It is recommended that you have evidence to demonstrate the following:

1. completed the Certificate IV in Information Technology or other relevant qualification, or

2. if you have not completed the required qualifications, you must have demonstrated vocational experience in a range of IT related work environments. This experience must be relevant to the qualification and your chosen stream of study, evidence will be required to support entry.

Duration

Full time over two (2) semesters (approx. 20 hours per week) or part-time equivalent.

Location

CIT Reid*

Delivery

Face-to-face, virtual and possible online.

*From Semester 2 2025, the location of this course will transition from CIT Reid to the new CIT Woden campus. CIT will provide support for students who will be making the move to Woden.
For more information, visit **cit.edu.au/woden**.

Certificate IV in Information Technology ICT40120

This course will provide you with the required skills and knowledge to be competent in a wide range of general ICT roles. It includes study streams designed and developed to provide specific ICT skills to career pathways in Network Administration and Programming and Web Applications.

The Network Administration and Infrastructure stream will train you in creating and maintaining Local Area Network (LAN), Virtual Private Network (VPN) and Wireless Area Network (WAN) environments. This includes configuring routing and multiple layers of switching, scripting, end point security and attack mitigation. Systems administration and wide range of security aspects are included in the program, including desktop management across networked environments, threat response and mitigation, imaging, packet tracing and cloud.

The Programming and Web Applications stream provides an elective pathway introducing students to coding and applications in object orientated programming, automation and building graphical user interfaces (JAVA, C++, Python, testing), designing static and dynamic websites (HTML & CSS, JavaScript, PHP), database design and modelling, and data management (Oracle SQL and PL/SQL).

There are no formal entry requirements. However, for the Network Administration stream, it is recommended to have completed one of the following:

- Certificate III in Information Technology
- Statement of Attainment in Networking and Web
- Statement of Attainment in Networking and Computer Hardware
- a Major in IT in Year 12 encompassing CISCO training.

Duration

Full time over two (2) semesters (approx. 20 hours per week) or part-time equivalent.

Location

CIT Reid*

Delivery

There will be face-to-face, virtual and possible online classes to attend.

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Certificate III in Information Technology ICT30120

This course provides you with the required skills and knowledge to be competent in a wide range of Information and Communications Technology (ICT) roles. It will allow you to complete electives and provide pathways into Networking, Programming and Cyber Security employment opportunities or further studies.

On completion, you will have the skills and knowledge to apply and support IT activities in the workplace across a wide range of ICT areas, including technical support, network administration, website creation, digital media technologies, coding skills and programming frameworks, virtual computing and basic cyber security skills. Part-time students with existing workplace skills are encouraged to consider the Statement of Attainment in Networking and Web or the Statement of Attainment in Networking and Hardware.

There are no entry requirements for this program, however a basic understanding of computer use, MS Windows environments, document production and internet browsing is recommended.

Duration

Full time over one (1) semester (approx. 20 hours per week) or part-time equivalent.

Location

CIT Reid*

Delivery

Face-to-face and virtual.

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We offer two Statement of Attainment course options, where you'll engage with the Cisco Network Academy to create peer-to-peer networks, incorporating wired and virtual environments, network protocols and packet tracing and gain an understanding of IP addressing, Active Directory infrastructure, disaster recovery and backup.

Following completion of either course, you'll have the technical skills and knowledge needed to pursue the Certificate IV in Information Technology and choose a specialist pathway.

There are no formal entry requirements for these qualifications, however demonstrated vocational experience in basic information technologies is recommended.

Statement of Attainment Networking and Computer Hardware

This course provides fundamental skills in networking, network operating systems and computer hardware maintenance. You'll learn to navigate virtual and physical environments using various technologies and safe working practices. Additionally, you will learn how computers function, identify components and get hands-on experience in computer maintenance.

Duration

Part-time over one (1) semester (approx. 9 hours per week).

Location

CIT Tuggeranong

Statement of Attainment Networking and Web Development

This course provides fundamental skills in networking, networked operating systems and static website design. You'll learn to navigate virtual and physical environments using various industry technologies. Using HTML, you'll plan, design and develop a multi-page static website, learning key skills such as layout, syntax and operability.

Duration

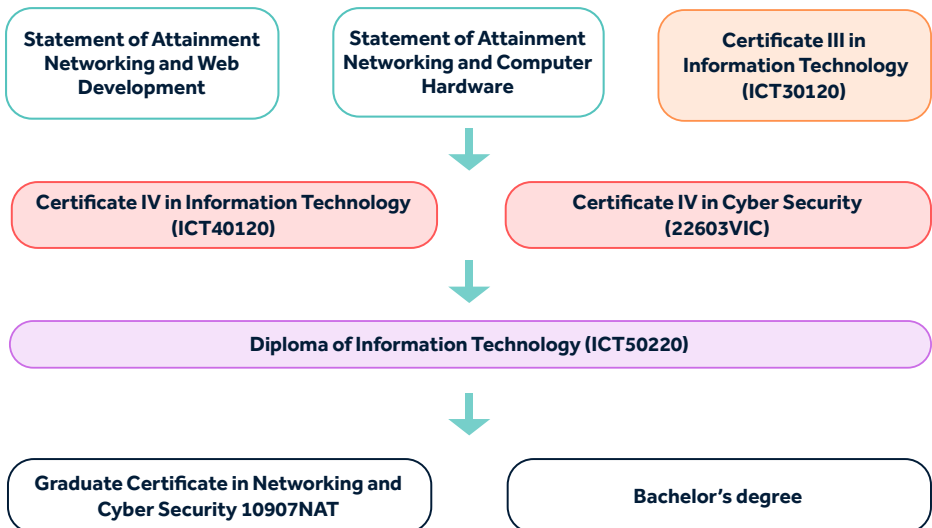Part-time over one (1) semester (approx. 8 hours per week).

Location

CIT Gungahlin

PATHWAYS

Completion of the Diploma of Information Technology (ICT50220) may provide you with credit towards a bachelor's degree in a related program. We have credit transfer arrangements with numerous universities and maintain relationships with Australian National University, University of Canberra, Australian Catholic University and Charles Sturt University.

Possible pathway

Below is an example pathway option available to you when you study one of our IT courses. Direct entry into any course is also available.

Statement of Attainment Networking and Web Development	Statement of Attainment Networking and Computer Hardware	Certificate III in Information Technology (ICT30120)

Certificate IV in Information Technology (ICT40120)	Certificate IV in Cyber Security (22603VIC)

Diploma of Information Technology (ICT50220)

Graduate Certificate in Networking and Cyber Security 10907NAT	Bachelor's degree

**Canberra Institute
of Technology**

For more information:

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