



Undergraduate and Postgraduate Information Technology and Network Engineering Course Guide



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Acknowledgement of Country

Charles Darwin University acknowledges and pays respect to the Elders both past and present of all First Nations people upon whose lands CDU campuses and centres are located.



Fit learning around your lifestyle

Study your way with a leader in online learning

At CDU, you can fit your learning around your lifestyle. Choose to study online from anywhere in Australia, part-time or full-time, and complete your placements close to home.

How online study works



Whether you study online or on campus, you will have access to our online learning platform, Learnline.



Take part in interactive lectures and group discussions live, or download recordings and resources to access later.



You'll have 24/7 access to your own study-specific tutoring service and round-the-clock technical support via email.



Access your laptop, desktop or mobile device and upload assignments from anywhere.



Meet other students and have lots of opportunities to make friends.



“

“CDU’s IT Code Fair is awesome. It’s not just a coding competition, there are also business, cybersecurity and research challenges. After the challenges and competitions, there’s a section called ‘speed dating’ where every student gets two minutes to meet each of the company managers. I was offered an internship at the IT Code Fair.”

**Chao, Master of Information Technology
(Software Engineering)**

Study Information Technology and Network Engineering at CDU

From dealing with cybersecurity and data collection to developing intelligent applications, an IT degree at CDU is tailored to industry demand. You’ll graduate equipped with the technical and analytical skills to futureproof your career across multiple sectors.

CDU offers degrees accredited by the Australian Computer Society in computer science, information and communication technology, artificial intelligence, cyber security, software engineering, information systems and more to fit your interests and career goals.



**#4 university
in Australia for
engineering and
technology starting
salary.^**



**#1 university
in Australia for
undergraduate
learner engagement
in computing and IT.^**



**5-star university for
computing and IT
student support.^**






**Learn using state-of-
the-art technologies
and methodologies.**

Find your course online for the latest admission requirements and course details:
cdu.edu.au/study/computing-information-technology-network-engineering

^The Good Universities Guide 2025

Associate Degree of Information and Communication Technology




	LOCATION – Education and Community Precinct (Darwin), Online
	DURATION – 2 years full-time, 4 years part-time
	DOMESTIC INTAKE – Semester 1, Semester 2, Summer Semester

The Associate Degree of Information and Communication Technology (ICT) will prepare you to be part of a rapidly evolving field and continually develop new applications to enhance the world we live in. You will develop your knowledge of the principles and applications in the ICT field and strengthen your personal skills in areas such as problem-solving, decision making, effective communication and teamwork. This course was developed in consultation with, and is supported by, ICT industry leaders and directly aligns with industry requirements.

CAREER OPPORTUNITIES

Graduating from this course may lead to career opportunities as an information technology specialist within government, private companies and non-government organisations (NGO) as an analyst, technician, web designer, developer or system administrator.

Associate Degree of Network Engineering




	LOCATION – Education and Community Precinct (Darwin), Online
	DURATION – 2 years full-time, 4 years part-time
	DOMESTIC INTAKE – Semester 1, Semester 2, Summer Semester

The Associate Degree of Network Engineering provides you with the skills, knowledge and confidence required to design, operate and maintain networks that play a crucial role in the infrastructure of industry and government organisations. The course has a strong practical emphasis and you will be given extensive opportunities to put theory into practice. Study part-time or full-time, and choose to study 100% online (domestic only), or on-campus.

CAREER OPPORTUNITIES

Graduating from this course may lead to various career opportunities including roles as a technician, helpdesk support, and network and systems administrator.

Bachelor of Computer Science

	LOCATION – Education and Community Precinct (Darwin), Online
	DURATION – 3 years full-time, 6 years part-time
	DOMESTIC INTAKE – Semester 1, Semester 2, Summer Semester

The Bachelor of Computer Science will prepare you to be part of a continually evolving and diverse field, developing new applications and systems to improve the modern world. You will develop skills and knowledge in the technical principles and applications of computer science and strengthen your problem-solving, decision-making and communication skills, making you a confident and competent candidate for a role in the IT industry.




CAREER OPPORTUNITIES

Graduating from this course can lead to career opportunities as a computer scientist within the government sector, private companies and non-government organisations in areas such as web design and development, games developer, networking and application development, analyst, consultant, UX specialist, programmer, SEO specialist, database administrator, or business analyst.

PROFESSIONAL RECOGNITION

The Bachelor of Computer Science is accredited by the Australian Computer Society at the level of Professional Practice in ICT and therefore recognised internationally under the Seoul Accord.

Bachelor of Information Technology

	LOCATION – Education and Community Precinct (Darwin), Online
	DURATION – 3 years full-time, 6 years part-time
	DOMESTIC INTAKE – Semester 1, Semester 2, Summer Semester

The Bachelor of Information Technology will prepare you to be responsible for more than just systems or software; you will be developing creative and innovative technologies for the modern world. Throughout your studies, you will develop knowledge and skills in areas such as web design and development, networking, application development and systems. You will also be encouraged to be an open-minded problem solver, a creative thinker and an engaging communicator, which will help progress your career in the IT industry. Study opportunities are also provided to assist students in undertaking sought-after industry modules, including Cisco and Microsoft certificates.




CAREER OPPORTUNITIES

Graduating from this course may lead to career opportunities as an information technology specialist in government, private companies and non-government organisations (NGO) as a web designer and developer, networking and application developer, system analyst, consultant, programmer, Search Engine Optimisation (SEO) specialist, database administrator and project manager.

PROFESSIONAL RECOGNITION

Graduates are eligible for membership of the Australian Computer Society (ACS) at the level of Professional Practice and is therefore recognised internationally under the Seoul Accord. Students must select specialist units such that at least one of the three groups of specialist units is included.

Bachelor of Software Engineering Honours

	LOCATION – Education and Community Precinct (Darwin), Online
	DURATION – 4 years full-time, 8 years part-time
	DOMESTIC INTAKE – Semester 1, Semester 2, Summer Semester

The Bachelor of Software Engineering Honours will allow you to develop your understanding of the underlying principles and applications of software engineering. Additionally, you will gain professional knowledge and skills that will allow you to stand out from the crowd in the digital world. Study opportunities are also provided to assist students to undertake sought-after industry modules, including Cisco and Microsoft certification.

CAREER OPPORTUNITIES

Your broad skill set prepares you to move into both small and large organisations, consultancy, startups, government and private companies.




PROFESSIONAL RECOGNITION

The Bachelor of Software Engineering Honours is accredited by the Australian Computer Society at the level of Professional Practice, and is therefore recognised internationally under the Seoul Accord.

ASSUMED KNOWLEDGE

Stage 2 Mathematical Methods or equivalent.

Diploma of Network Engineering

	LOCATION – Education and Community Precinct (Darwin), Online
	DURATION – 1 year full-time, 2 years part-time
	DOMESTIC INTAKE – Semester 1, Semester 2, Summer Semester

The Diploma of Network Engineering will prepare you for entry-level network engineering roles by providing the skills and knowledge required to design, operate and maintain networks that play a crucial role in the infrastructure of industry and government organisations.

Your coursework will cover key areas of network engineering, including data networks and their implementation. You will combine academic studies with practical experience allowing you to further develop your skill set and provide you with the opportunity to stand out from the crowd in a competitive industry.


You can also use this qualification to move into our other degree programs such as the Bachelor of Information Technology or Bachelor of Software Engineering Honours. Study opportunities are also provided to assist students to undertake sought-after industry modules, including Microsoft certification.

CAREER OPPORTUNITIES


Graduating from this course may lead to entry-level roles in network systems, helpdesk support, information technology and telecommunications.



Graduate Certificate of Data Science

 **LOCATION** – Education and Community Precinct (Darwin), Online

 **DURATION** – 1 year part-time

 **DOMESTIC INTAKE** – Semester 1, Semester 2

The Graduate Certificate of Data Science will further develop your technical and analytical skills needed to manage and interpret useful insights from massive data sets.

This qualification complements the following multi-disciplinary areas:


- > Computer science
- > Information technology
- > Information systems
- > Statistics
- > Mathematics
- > Engineering or a program with substantial quantitative competencies.


Your coursework will also include a project-based assessment allowing you to focus on what you are passionate about.

CAREER OPPORTUNITIES

Graduating from this course may lead to careers as a business analyst, data scientist, data analyst, and data engineer.

Graduate Certificate of Information Technology (Cyber Security)

 **LOCATION** – Education and Community Precinct (Darwin), Online

 **DURATION** – 1 year part-time


 **DOMESTIC INTAKE** – Semester 1, Semester 2


The Graduate Certificate in Information Technology (Cyber Security) complements your other information technology qualifications and allows you to specialise in cyber security in the modern world. You will apply your knowledge in practical activities giving you the opportunity to work alongside industry leaders.

CAREER OPPORTUNITIES

Graduating from this course may lead to a career as an ICT security specialist, network security analyst or security officer.

Master of Data Science

 **LOCATION** – Education and Community Precinct (Darwin), Sydney, Online

 **DURATION** – 2 years full-time, 4 years part-time

 **DOMESTIC INTAKE** – Semester 1, Semester 2

The Master of Data Science will further develop your technical and analytical skills needed to manage and interpret useful insights from large data sets. This course is designed for students both with and without a background in data science, information technology, information systems or equivalent.

You will learn about the applications of data science in different real-world problems. Your coursework will include project-based assessments allowing you to focus on what you are passionate about.


CAREER OPPORTUNITIES


Graduating from Master of Data Science may lead to career opportunities as a business analyst, data scientist, data analyst, data engineer or data manager.


PROFESSIONAL RECOGNITION

The Master of Data Science is accredited by the Australian Computer Society at the level of ICT Professional, and is therefore recognised internationally under the Seoul Accord.

Master of Information Technology (Artificial Intelligence)

 **LOCATION** – Education and Community Precinct (Darwin), Sydney, Online

 **DURATION** – 2 years full-time, 4 years part-time

 **DOMESTIC INTAKE** – Semester 1, Semester 2, Summer Semester

The Master of Information Technology (Artificial Intelligence) complements your current degree helping you broaden your skill set in the field of artificial intelligence. The course focuses on artificial intelligence and its effects in the modern world.


CAREER OPPORTUNITIES


Graduating from this course may lead to a career as an artificial intelligence specialist or a software engineer. Your skillset and knowledge make you a competitive candidate in areas such as consultancy, startups, government departments, private companies, non-government organisations (NGO) and community groups.


PROFESSIONAL RECOGNITION

The Master of Information Technology (Artificial Intelligence) is provisionally accredited by the Australian Computer Society at the level of ICT Professional.

Master of Information Technology (Cyber Security)

 **LOCATION** – Education and Community Precinct (Darwin), Sydney, Online

 **DURATION** – 2 years full-time, 4 years part-time

 **DOMESTIC INTAKE** – Semester 1, Semester 2, Summer Semester

The Master of Information Technology (Cyber Security) complements your current degree, helping you broaden your skill set in the field of cyber security. The course focuses on cyber security and its effects in the modern world. You will explore the impacts of cyber security in course and project work. Your studies will combine theory with practical activities through latest cyber security tools and technologies, giving you the opportunity to confidently network with industry leaders. The program includes modules on risk management, ethical hacking, and effective network engineering principles.

Graduates will be well-prepared to tackle complex security challenges in various professional environments. Upon graduation, you will be equipped with the knowledge and skills to protect digital infrastructures and respond to cyber threats effectively.


CAREER OPPORTUNITIES


Graduating from this course may lead to a career as an ICT security specialist, network security analyst or security officer.

PROFESSIONAL RECOGNITION

The Master of Information Technology (Cyber Security) is accredited by the Australian Computer Society at the level of ICT Professional, and is therefore recognised internationally under the Seoul Accord.

Master of Information Technology (Information Systems)

 **LOCATION** – Education and Community Precinct (Darwin), Sydney, Online

 **DURATION** – 2 years full-time, 4 years part-time

 **DOMESTIC INTAKE** – Semester 1, Semester 2

The Master of Information Technology (Information Systems) equips students with the necessary and broad understanding of how people, processes and technology interact. Graduates of this course will learn how to apply this knowledge to help organisations effectively achieve excellence and gain a competitive edge in achieving their goals.

Information systems graduates are in high demand, and at the end of this course, graduates will become experts in applying their knowledge in a range of environments. They will be equipped with specialist knowledge covering diverse areas in systems development (analysis and design), digital transformation, process management and database management, cybersecurity and the application of data and information management from a business analytics perspective.


CAREER OPPORTUNITIES


Graduating from this course may lead to a career as a business analyst, system analyst or IT consultant.


PROFESSIONAL RECOGNITION

The Master of Information Technology (Information Systems) is accredited by the Australian Computer Society at the level of ICT Professional, and is therefore recognised internationally under the Seoul Accord.

Master of Information Technology (Software Engineering)

 **LOCATION** – Education and Community Precinct (Darwin), Sydney, Online

 **DURATION** – 2 years full-time, 4 years part-time

 **DOMESTIC INTAKE** – Semester 1, Semester 2, Summer Semester

The Master of Information Technology (Software Engineering) integrates foundational learning such as databases, artificial intelligence, and cyber security and specialist knowledge covering all aspects of software production from designing computer software, computer programming, software testing to quality and management.

Graduates of this course will learn how to apply this knowledge to provide software solutions and deliver high-quality code on time that can be integrated into existing operating environments.

CAREER OPPORTUNITIES

Graduating from this course may lead to a career as a software engineer. Your skillset and knowledge make you a competitive candidate in areas such as consultancy, startups, government departments, private companies, non-government organisations (NGO) and community groups.

PROFESSIONAL RECOGNITION

The Master of Information Technology (Software Engineering) is accredited by the Australian Computer Society (ACS) at the level of ICT Professional and is therefore recognised internationally under the Seoul Accord.

A woman with dark curly hair and a man with short dark hair are sitting at a wooden table. The woman is wearing a black and white patterned top and is smiling while looking at the man. The man is wearing a light-colored button-down shirt and is also smiling. They appear to be in a casual setting, possibly a cafe or a meeting room, with a window and some papers visible in the background.

A place for you at CDU

Undergraduate

Entry requirements that recognise your achievements

Each university course has its own entry requirements – if you've achieved the required ATAR and meet the criteria you can apply directly into the course of your choice.

But perhaps you didn't ace Year 12, decided to start your career with a trade, parked your first degree to go travelling, or already have great professional experience in your industry.

We welcome and celebrate unique paths like these, which is why we offer a range of non-traditional, flexible entry requirements.

Postgraduate

Ready for the next step in your studies?

Postgraduate courses range from graduate certificates through to doctorates and can help you take the next step in your career. In most cases, you will need to have completed an undergraduate degree to apply for a postgraduate course. In some cases, consideration can be given to non-graduates who have relevant professional experience. For some courses, other criteria such as an interview, curriculum vitae (CV), audition or portfolio submission apply. Check the admissions requirements for your chosen course at cdu.edu.au/study

Inherent requirements

Many professions require practical, physical, cognitive, literacy, numeracy and certain personal capabilities, such as ethical behaviour, communication skills and legal reporting compliance.

Find out more at: cdu.edu.au/inherent-requirements

How to apply

1. Visit cdu.edu.au

Explore course information, entry requirements and selection processes for your preferred courses.

2. Select your preferences

Register with [SATAC](https://satac.edu.au) and select up to six preferences. Make sure you select your dream degree as your first preference and check the key dates for applications. Late applications may still go through but the application fee may be higher.

3. Apply

Follow instructions from SATAC to complete and submit your application. SATAC may contact you for further information.

4. Accept your offer and enrol

If you are successful you will receive an offer to study at CDU. This will arrive by email from SATAC. Offer rounds will be made from December, with the majority of offers being sent in January for Semester 1 intake. CDU will then email you information on how to accept and enrol.



TIP

After you've enrolled with CDU take the time to apply for available scholarships: cdu.edu.au/scholarships

Returning to study with us?

If you've previously completed a TAFE Certificate III or higher, the Tertiary Enabling Program or an undergraduate degree at CDU, you may be able to apply for your next course directly through CDU rather than via SATAC.

MyNextCourse is an easy, online portal that allows you to apply faster, avoid application fees and receive your offer sooner.

Visit mynextcourse.cdu.edu.au



Be supported

We are a university that will empower and support you. Whether you study online or on campus, you'll be connected to a network of support services to help keep you focused, motivated and on-track with your studies.

Free academic skills programs

Language and learning support is free and confidential, assisting you with skills development tailored to your specific unit. Language and learning advisors work with you to help you understand assignment requirements and improve communication and study skills for your discipline.

You will be paired with a dedicated peer advisor to help you navigate your studies. They will check in with you every other week. This ongoing support ensures that you're progressing well in your studies and academic life. Peer advisors also run collaborative sessions focusing on preparing you for assignments and exams.

Online study buddies

Enjoy seamless, interactive collaboration with your peers, tutors and lecturers on Learnline. Jump into forums, join discussion boards and chat online with your fellow students – any time of the day or night, across Australia and beyond.

Free career advice

The Careers and Employment team offers expert advice and online tools to help you find a job, understand your work style, build your CV, practice job interviews and more.

Log on to the library

Online and on-campus students have 24/7 access to library resources. Knowledgeable and friendly library staff are ready to help over the phone, via email or face-to-face on most campuses.

Staying well

CDU offers a range of resources to help improve your wellbeing including confidential counselling and wellbeing services.

Equal access

The Access and Inclusion team is on hand to provide free and confidential services and support for students with a disability and/or health conditions. This may include providing adjustments to your study conditions, course materials or assessments or the provision of supportive resources like assistive technology.

Scholarships and financial help

CDU offers scholarships to help you complete your studies. Scholarships are available across a range of categories – not just for high achievers. Get assistance with fees, budgeting and grants to help with your financial health and wellbeing.

Student Central

Student Central is your one-stop spot for support and guidance. You can phone, email or visit them on campus for advice on admissions, timetabling, enrolling, exams, course fees and payments, study plans, scholarships and more.

Respect. Now. Always.

At CDU we believe in diversity as a strength and welcome differences in culture, race, religion, gender identity, ability, and sexuality. We are proud of the diversity of the CDU community, and we are working together to create a fair, safe, and inclusive university where everyone can thrive.

CDU is a part of the Universities Australia, Respect. Now. Always. initiative. We are committed to ensuring our students and staff are safe from gender-based violence, sexual assault or harassment.



Why Choose CDU?

Join students from all across Australia who choose CDU to empower and support them to launch or progress their career.



A leading university for graduate employment outcomes¹

Graduate job-ready – with a salary to match. CDU graduates earn 5% more and are 6% more likely to land a full-time job than the average university student.²



Study your way

CDU is a specialist in flexible study. Fit learning around your lifestyle with part-time, full-time, online and on-campus options.



Top 5 Australian university for first-in-family study

We're a leading university for supporting students who are the first in their immediate family to go to university.¹



Scholarships to help you through

We have a diverse range of scholarships that recognise hard work, support those in need and assist students with the financial burden of studying.



The dual-sector advantage - we're a TAFE and a university

From certificates and apprenticeships through to diplomas and degrees, we have a course to fit your preferred level of study and pathway options. This means if you complete a TAFE course and decide to continue studying, you can do it all with CDU.

1. The Good Universities Guide 2025

2. 2023 Graduate Outcomes Survey National Report

Contact us

E: study@cdu.edu.au

Freecall: 1800 061 963

Mon – Thursday 8.00am - 4.00pm

Friday 8.00am – 3.00pm (ACST)

cdu.edu.au

Casuarina

Larrakia Country

Orange 1.1

Ellengowan Drive, NT

Education and Community Precinct

Larrakia Country

54 Cavenagh Street, Darwin NT

Darwin Waterfront

Larrakia Country

21 Kitchener Drive, Darwin NT

Palmerston

Larrakia Country

University Avenue, Palmerston NT

Alice Springs

Arrernte Country

Grevillea Drive, Alice Springs NT

Katherine Town Centre

Jawoyn, Wardaman and Dagoman Country

19 Second Street, Katherine NT

Katherine Rural

Jawoyn, Wardaman and Dagoman Country

Lot 5626 (16km North of Katherine)

Stuart Highway, Katherine NT

Nhulunbuy

Yonju Country

Lot 1468 Dartnall Close, Nhulunbuy NT

Sydney

Gadigal Country

Level 10, 815 George Street,

Haymarket, Sydney, NSW

While all reasonable efforts have been made to ensure that the information in this publication is correct, matters covered by this publication are subject to change. Charles Darwin University does not assume and hereby disclaims any express or implied liability whatsoever to any party for any loss or damage caused by errors or omissions, whether these errors or omissions result from negligence, accident or any other cause.

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Student Central

Freecall: 1800 061 963

E: study@cdu.edu.au

You make CDU



cdu.edu.au