UNIVERSITY OF CANBERRA

Master of Information Technology and Systems (973AA.6)

Please note these are the 2024 details for this course

Domestic students

Selection rank	PG
Delivery mode	On campus
Location	Bruce, Canberra
Duration	2.0 years
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Technology
UAC code	880267
English language requirements	An IELTS Academic score of 6.5 overall, with no band score below 6.0 (or equivalent). View IELTS equivalences

International students

Academic entry requirements	To study at UC, you'll need to meet our academic entry requirements and any admission requirements specific to your course. Please read your course admission requirements below. To find out whether you meet UC's academic entry requirements, visit our academic entry requirements page.

	View UC's academic entry requirements
Delivery mode	On campus
Location	Bruce, Canberra
Duration	2.0 years
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Technology
CRICOS code	064327C
English language requirements	An IELTS Academic score of 6.5 overall, with no band score below 6.0 (or equivalent). View IELTS equivalences

About this course

Shape your career in IT with the help of UC

If you're considering a move into a career in ICT but concerned that your lack of knowledge and experience in this field will hinder your career prospects, relax - this course has everything you need to forge a successful career in IT – fast!

No matter what your background, this course has been designed around those with no formal study or employment background in IT.
In this course you will get to explore the key areas of the 'Skills Framework for the Information Age' and gain a comprehensive and thorough understanding of software technology and engineering practice.

Highly flexible, this course also covers the fine details of database design and engineering management and offers a variety of delivery modes to help you balance your study with other commitments, including weekday classes during business hours and in the evenings.

As part of UC's commitment to Work Integrated Learning (WIL), you will also get the opportunity to undertake an internship within a professional organisation, which will help you gain necessary practical skills and improve your chances of securing your ideal IT job.

This course offers the chance to specialise in either Artificial Intelligence and Machine Learning, Cloud Computing, Cybersecurity, Data Science, IoT & Robotics Network Technologies and Project Management.

Study a Master of Information Technology and Systems at UC and you will:

- gain an introduction to software technology and engineering practice
- be brought up to speed with the latest industry processes and strategies
- learn about security, support and operating a quality, professional IT practice
- be able to choose from a range of cutting edge specialisations
- study information technology and systems in the workplace
- cover key contemporary IT issues
- gain exposure to top level industry contacts
- possess the skills to confidently pursue a career in IT
- gain a globally recognised qualification.

Work Integrated Learning (WIL)

WIL is an integral component of the UC Master of Information and Technology course as it offers students the opportunity to gain valuable hands-on experience and build professional relationships through real work, or work-like placements.

To ensure our students have access to the right people and places, UC works hard to foster close industry connections and regularly engages with industry partners who possess both the skills and experience to provide specialised knowledge and training opportunities.

All course content is reviewed annually by our Course Advisory Group which is made up of a panel of highly qualified and respected industry experts.

Career opportunities

The UC Master of Information Technology and systems is a globally recognised and industry respected qualification that is designed to help you secure a career in any of the following areas:

- Network manager
- Cybersecurity specialist
- Programmer
- Web and mobile developer
- Business and systems analyst.

Course-specific information

Applicants need to have completed an Australian bachelor's degree in any field or equivalent, be fluent in the use of a desktop computer, and have excellent English spoken and written communication skills. No previous IT knowledge is assumed.
This course is fully accredited by the Australian Computer Society, at the Professional level.
A clear pathway of study exists between this degree, the Graduate Certificate in Information Technology and the Graduate Diploma in Information Technology

Join our Information Technology webinar

Get the inside scoop on UC's Master of Information Technology and Systems, at an upcoming course information webinar. Connect

with faculty staff, chat with a current student and learn how the program can pave the way to a range of rewarding careers.

Register now

Professional accreditation

Full accreditation at Professional Level with the Australian Computer Society.

Admission requirements

An Australian bachelor degree in any field or equivalent.

You can use professional experience and prior learning to enter into a postgraduate qualification at UC through our Professional Pathway Entry program. If you have significant work experience or hold industry-recognised qualifications, this program could be your route to bypass undergraduate study and accelerate your career. Explore Professional Pathway Entry https://www.canberra.edu.au/future-students/get-into-uc/admissions-programs/professional-pathway-entry

Assumed knowledge

Proficiency in using computers.

Periods course is open for new admissions

Year	Location	Teaching period	Teaching start date	Domestic	International
2025	Bruce, Canberra	Semester 1	03 February 2025	✓	✓
2025	Bruce, Canberra	Semester 2	28 July 2025	✓	✓
2026	Bruce, Canberra	Semester 1	16 February 2026	✓	✓
2026	Bruce, Canberra	Semester 2	10 August 2026	✓	✓
2027	Bruce, Canberra	Semester 1	15 February 2027	✓	✓
2027	Bruce, Canberra	Semester 2	09 August 2027	✓	✓

Credit arrangements

A credit transfer arrangement is available for this course for the following institutions:

Canberra Institute Of Technology

Graduate Certificate in Networking and Cyber Security (33206)

University Of Canberra College

Graduate Certificate in Academic Foundations (31426)

Course requirements

Master of Information Technology and Systems (973AA) | 48 credit points

Expand All | Collapse All

Required - Must pass 24 credit points as follows

Professional Practice in IT G (6676) | 3 credit points — Level G

Systems Analysis and Modelling G (6677) | 3 credit points — Level G

Introduction to Information Technology G (8936) | 3 credit points — Level G

Technology and Engineering Management PG (9784) | 3 credit points — Level P

Contemporary IT & E Issues PG (9787) | 3 credit points — Level P

Technology Capstone Research Project PG (11522) | 6 credit points — Level P

Technological Innovation and Entrepreneurship G (11530) | 3 credit points — Level G

Award Options - Must select 1 of the following

No Specialisation - 18 credit points as follows

- 9 credit point of ITS units at G or PG level

- 9 credit point of ITS units at PG level

Network Technologies specialisation - 18 credit points as follows

High Speed Networks PG (6692) | 3 credit points — Level P

Computer and Network Security PG (6697) | 3 credit points — Level P

Introduction to Network Engineering G (10088) | 3 credit points — Level G

Network Architecture PG (10099) | 3 credit points — Level P

Wireless Networks PG (10100) | 3 credit points — Level P

System and Network Administration PG (11515) | 3 credit points — Level P

Cybersecurity specialisation - 18 credit points as follows

Specialist Units - Must pass 12 credit points as follows

Information Security PG (6682) | 3 credit points — Level P

Introduction to Digital Forensics G (9075) | 3 credit points — Level G

System and Network Administration PG (11515) | 3 credit points — Level P

Introduction to Cyber Safety G (11623) | 3 credit points — Level G

Restricted Choice Units - Must pass 6 credit points from the following

Part A - Must pass 3 credit points from the following

Computer and Network Security PG (6697) | 3 credit points — Level P

Advanced Cyber Security PG (11940) | 3 credit points — Level P

- From 2023, unit 6697 Computer and Network Security PG has been renamed to 11940 Advanced Cyber Security PG.

Part B - Must pass 3 credit points from the following

- 3 credit points of ITS units at G or PG level

AI & Machine Learning specialisation - 18 credit points as follows

Designing Human-Computer Interaction G (6673) | 3 credit points — Level G

Artificial Intelligence Techniques PG (6685) | 3 credit points — Level P

Soft Computing PG (7197) | 3 credit points — Level P

Computer Vision and Image Analysis PG (8890) | 3 credit points — Level P

Software Technology 1 G (8995) | 3 credit points — Level G

Pattern Recognition and Machine Learning PG (11512) | 3 credit points — Level P

Cloud Computing specialisation - 18 credit points as follows

Specialist Units - Must pass 12 credit points as follows

Introduction to Network Engineering G (10088) | 3 credit points — Level G

Network Architecture PG (10099) | 3 credit points — Level P

Enterprise and Cloud Computing PG (11510) | 3 credit points — Level P

Cloud Computing Architecture PG (11527) | 3 credit points — Level P

Restricted Choice Units - Must pass 6 credit points from the following

- 6 credit points of ITS units at G or PG level

Data Science specialisation - 18 credit points as follows

Introduction to Statistics G (6554) | 3 credit points — Level G

Data Analytics and Business Intelligence PG (8697) | 3 credit points — Level P

Introduction to Data Science G (11516) | 3 credit points — Level G

Exploratory Data Analysis and Visualisation G (11517) | 3 credit points — Level G

Data Science Technology and Systems PG (11523) | 3 credit points — Level P

AR/VR for Data Analysis and Communication PG (11524) | 3 credit points — Level P

IoT & Robotics specialisation - 18 credit points as follows

Computer Vision and Image Analysis PG (8890) | 3 credit points — Level P

Engineering Mathematics G (10090) | 3 credit points — Level G

Introduction to Computer Engineering G (10096) | 3 credit points — Level G

Internet of Things PG (11513) | 3 credit points — Level P

Advanced Robotics PG (11525) | 3 credit points — Level P

Foundations of Robotics G (11528) | 3 credit points — Level G

Project Management specialisation - 18 credit points as follows

Systems Project and Quality Management G (6678) | 3 credit points — Level G

IT and Business Alignment PG (6683) | 3 credit points — Level P

Information Systems Management PG (7109) | 3 credit points — Level P

Project Management PG (8427) | 3 credit points — Level P

Enterprise Systems G (11518) | 3 credit points — Level G

Workflow and Process Management G (11529) | 3 credit points — Level G

Restricted Choice - Must pass 6 credit points from the following

Part B - Must pass 3 credit points from the following

Inf. Sc. Research Methodology PG (6797) | 3 credit points — Level P

ICT and Engineering Research Methodology PG (12090) | 3 credit points — Level P

- From 2025, unit 12090 ICT and Engineering Research Methodology PG replaces unit 6797 Inf. Sc. Research Methodology PG

Part A - Must pass 3 credit points from the following

Security and Support in IT G (6689) | 3 credit points — Level G

Introduction to Cyber Security G (11941) | 3 credit points — Level G

- From 2023, unit 6689 Security and Support in IT G has been renamed to 11941 Introduction to Cyber Security G.

In addition to course requirements, in order to successfully complete your course you must meet the inherent requirements. Please refer to the inherent requirements statement applicable to your course

Typical study pattern

UC - Canberra, Bruce

Standard Full Time, Semester 1 Commencing

Year 1

Semester 1

Introduction to Information Technology G (8936)

Professional Practice in IT G (6676)

Systems Analysis and Modelling G (6677)

One Restricted Choice Unit (Level G or PG)

Semester 2

Introduction to Cyber Security G (11941)

Two Restricted Choice Units (Level G or PG)

ICT and Engineering Research Methodology PG (12090)

Year 2

Semester 1

Two Restricted Choice Units (Level PG)

Technological Innovation and Entrepreneurship G (11530)

Technology and Engineering Management PG (9784)

Semester 2

Contemporary IT & E Issues PG (9787)

One Restricted Choice Unit (Level PG)

Technology Capstone Research Project PG (11522)

Standard Full Time, Semester 2 Commencing

Year 1

Semester 2

Professional Practice in IT G (6676)

One Restricted Choice Unit (Level G or PG)

Introduction to Cyber Security G (11941)

Systems Analysis and Modelling G (6677)

Year 2

Semester 1

Introduction to Information Technology G (8936)

Two Restricted Choice Units (Level G or PG)

ICT and Engineering Research Methodology PG (12090)

Semester 2

Two Restricted Choice Units (Level G or PG)

Contemporary IT & E Issues PG (9787)

Technological Innovation and Entrepreneurship G (11530)

Year 3

Semester 1

One Restricted Choice Unit (Level PG)

Technology Capstone Research Project PG (11522)

Technology and Engineering Management PG (9784)

Standard Part Time, Semester 1 Commencing

Year 1

Semester 1

Introduction to Information Technology G (8936)

Professional Practice in IT G (6676)

Semester 2

ICT and Engineering Research Methodology PG (12090)

Introduction to Cyber Security G (11941)

Year 2

Semester 1

Specialisation Unit

Systems Analysis and Modelling G (6677)

Semester 2

Technological Innovation and Entrepreneurship G (11530)

Specialisation Unit

Year 3

Semester 1

Specialisation Unit

Technology and Engineering Management PG (9784)

Semester 2

Specialisation Unit

Contemporary IT & E Issues PG (9787)

Year 4

Semester 1

Two Specialisation Units

Semester 2

Technology Capstone Research Project PG (11522)

Standard Part Time, Semester 2 Commencing

Year 1

Semester 2

Introduction to Information Technology G (8936)

Professional Practice in IT G (6676)

Year 2

Semester 1

Specialisation Unit

Systems Analysis and Modelling G (6677)

Semester 2

ICT and Engineering Research Methodology PG (12090)

Introduction to Cyber Security G (11941)

Year 3

Semester 1

Two Specialisation Units

Semester 2

Contemporary IT & E Issues PG (9787)

Technological Innovation and Entrepreneurship G (11530)

Year 4

Semester 1

Technology and Engineering Management PG (9784)

Specialisation Unit

Semester 2

Two Specialisation Units

Year 5

Semester 1

Technology Capstone Research Project PG (11522)

Course information

Course duration

Standard 2 years full time or part-time equivalent. Maximum 6 years from date of enrolment to date of course completion.

Learning outcomes

Learning outcomes	Related graduate attributes
Critically analyse, interpret and synthesise complex problems, solutions, concepts or theories in information technology and systems area, to address the needs of a broad range of stakeholders, including technology specialists, managers, clients, regulators, etc.	UC graduates are professional: Employ up-to-date and relevant knowledge and skills; communicate effectively; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; display initiative and drive, and use their organisational skills to plan and manage their workload; and take

	pride in their professional and personal integrity. UC graduates are global citizens: Think globally about issues in their profession; make creative use of technology in their learning and professional lives; and behave ethically and sustainably in their professional and personal lives. UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; and evaluate and adopt new technology.
Acquire expertise in a key area of information technology and systems, with superior analytical skills and competencies in problem solving, and a sound fundamental understanding of the principles and methods of information technology.	UC graduates are professional: Employ up-to-date and relevant knowledge and skills; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; work collaboratively as part of a team, negotiate, and resolve conflict; display initiative and drive, and use their organisational skills to plan and manage their workload; and take pride in their professional and personal integrity. UC graduates are global citizens: Think globally about issues in their profession; understand issues in their profession from the perspective of other cultures; communicate effectively in diverse cultural and social settings; and make creative use of technology in their learning and professional lives. UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas; and evaluate and adopt new technology.
Navigate in an increasingly complex global technological innovation environment, with legal, ethical, economic and business-related challenges, in a fast-changing field; competently use professional skills and knowledge in the systematic development of complex information technologies and systems and apply their skills and knowledge in a professionally responsible manner.	UC graduates are professional: Employ up-to-date and relevant knowledge and skills; communicate effectively; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; work collaboratively as part of a team, negotiate, and resolve conflict; display initiative and drive, and use their organisational skills to plan and manage their workload; and take pride in their professional and personal integrity.

	UC graduates are global citizens: Think globally about issues in their profession; and make creative use of technology in their learning and professional lives. UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; and evaluate and adopt new technology.
Develop an advanced and integrated understanding and innovation mindset, to identify and analyse complex problems within information technology and systems discipline, and design sustainable novel technology solutions to these problems at a highly skilled level.	UC graduates are professional: Employ up-to-date and relevant knowledge and skills; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; and take pride in their professional and personal integrity. UC graduates are global citizens: Think globally about issues in their profession; make creative use of technology in their learning and professional lives; and behave ethically and sustainably in their professional and personal lives. UC graduates are lifelong learners: Be self-aware; adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas; and evaluate and adopt new technology.
Demonstrate deep knowledge base in information technology and systems discipline, to facilitate effective communication with those involved in the ITS industry, and acquire the computational skills necessary to solve theoretical and practical problems for further professional development and for meeting future changes in IT and Systems.	UC graduates are professional: Employ up-to-date and relevant knowledge and skills; communicate effectively; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; and work collaboratively as part of a team, negotiate, and resolve conflict. UC graduates are global citizens: Understand issues in their profession from the perspective of other cultures; communicate effectively in diverse cultural and social settings; and behave ethically and sustainably in their professional and personal lives. UC graduates are lifelong learners: Evaluate and adopt new technology.
Display excellent verbal and written communication skills that enable them to make a meaningful contribution to	UC graduates are professional: Employ up-to-date and relevant

changing face of the ITS industry, with professional ethics and responsibility towards the IT profession and the broader community.

knowledge and skills; communicate effectively; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; work collaboratively as part of a team, negotiate, and resolve conflict; and display initiative and drive, and use their organisational skills to plan and manage their workload.

UC graduates are global citizens: Understand issues in their profession from the perspective of other cultures; and communicate effectively in diverse cultural and social settings.

UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; be self-aware; adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas; and evaluate and adopt new technology.

Awards

Award	Official abbreviation
Master of Information Technology and Systems	MIT&Sys
Master of Information Technology and Systems in Cybersecurity	MITS Cybersecurity
Master of Information Technology and Systems in Data Science	MITS DataSc
Master of Information Technology and Systems in Cloud Computing	MITS CloudComp
Master of Information Technology and Systems in IoT and Robotics	MITS IoT&Robotics
Master of Information Technology and Systems in AI and Machine Learning	MITS AI&MachineLrng
Master of Information Technology and Systems in Network Technologies	MITS NetworkTech
Master of Information Technology and Systems in Project Management	MITS ProjectMgt

Alternative exits

Alternative Exits:

Graduate Certificate in Information Technology - Must have passed 9 credit points as follows:

Professional Practice in IT G

Systems Analysis and Modelling G

Introduction to Information Technology G

AND

3 credit points from:

Security and Support in IT G

Software Technology 1 G

Introduction to Network Engineering G

Introduction to Data Science G

Introduction to Cyber Safety G.

Graduate Diploma in Information Technology - Must have passed 24 credit points of Information Technology and Systems units at G or PG Level including:

Professional Practice in IT G

Systems Analysis and Modelling G

Introduction to Information Technology G

Security and Support in IT G

Technological Innovation and Entrepreneurship G

AND with at least 3 credit points at PG Level.

Enquiries

Student category	Contact details
Prospective Domestic Students	Email study@canberra.edu.au or Phone 1800 UNI CAN (1800 864 226)
Prospective International Students	Email international@canberra.edu.au or Phone +61 2 6201 5342
Current and Commencing Students	In person, Student Centre Building 1 or Email Student.Centre@canberra.edu.au

Download your course guide

Scholarships

Find the scholarship that's the right fit for you

Explore Scholarships

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CRICOS 00212K

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UC acknowledges the Ngunnawal people, traditional custodians of the lands where Bruce campus is situated. We wish to acknowledge and respect their continuing culture and the contribution they make to the life of Canberra and the region. We also acknowledge all other First Nations Peoples on whose lands we gather.