UNIVERSITY OF CANBERRA

Bachelor of Information Technology (322AA.8)

Please note these are the 2022 details for this course

Domestic students

Selection rank	60 **Note:** The selection rank is the minimum ATAR plus adjustment factors required for admission to the program in the previous year. This is an indicative guide only as ranks change each year depending on demand.
Delivery mode	On campus
Location	Bruce, Canberra
Duration	3.0 years
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Technology
UAC code	366043
English language requirements	An IELTS Academic score of 6.0 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	3.0 years
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Technology
CRICOS code	019936G
English language requirements	An IELTS Academic score of 6.0 overall, with no band score below 6.0 (or equivalent). View IELTS equivalences

About this course

Make IT happen with a degree from UC

If you have a passion for information technology (IT) and are keen to learn the high-tech skills to establish a career comfortably navigating an increasingly digitised world, then the UC Bachelor of Information Technology is the perfect course for you.

This course is highly expansive course, covering both the technology and business sides of IT, and as part of your studies you'll explore and learn relevant IT theories and principles that underpin the IT industry.

Areas of study include business and information systems, system analysis and modelling, system administration, security, networking and software development which will give you the perfect platform from which to move seamlessly into a wide range of career specialisations.

This course is accredited by the Australian Computer Society (ACS) and, upon graduation, you'll possess the necessary knowledge, skills, qualifications and professional contacts to forge a stimulating IT career across a wide range of industries both here in Australia and around the world.

This course offers the chance to specialise in Cloud Computing and Internet of Things, Cybersecurity and System Administration, Data Science or Robotics and Artificial Intelligence.

Study a Bachelor of Information Technology at UC and you will:

- gain extensive experience in developing information technology systems designed to address the needs of modern organisations
- develop knowledge, skills and understanding of the application of IT systems to their business environments, policies and management
- explore the technical and human aspects of IT and its use
- establish a comprehensive network of industry contacts
- refine your teamwork, project management and communication skills
- earn a globally recognised degree.

Work Integrated Learning (WIL)

Work-integrated learning (WIL) is an integral component of the Bachelor of Information Technology journey as it gives students the opportunity to gain valuable hands-on experience and build professional relationships through real work, or work-like placements.

This, in turn, enhances each student's confidence, employability and reinforces the university's commitment to preparing professional and highly employable graduates with the right mix of skills, knowledge, and experience.

As part of this approach UC fosters close industry connections who offer preferential access to work placement positions and training opportunities with companies such as Dialog Information Technology, Pursuit Technology, CycleLifeHQ, Birdsnest, Australian Sports Commission, Agsafe, Kiah Consulting, ALLBIDS, ThoughtPatterns Consulting, ESKAPEE, Carers ACT, the Department of Defence's Chief Information Officer Group, Emanate Technology, Getaboutable.com and Clearz Defence.

In your final year, you'll also have the chance to complete a real-world industry capstone project while working in teams to produce and implement an IT system for a local business, government or community organisation.

Career opportunities

The UC Bachelor of Information Technology is a globally recognised qualification that will help you progress into any of the following career pathways including:

- Cloud computing architect
- ICT project manager
- Data analyst
- Mobile apps developer
- Cybersecurity specialist
- Cybersecurity operations manager
- Chief information officer
- Big data engineer
- Big data architect
- Data scientist
- Business intelligence specialist
- Service desk manager
- System administrator
- Cloud computing architect

- IoT engineer, developer or designer
- Artificial Intelligence practitioner
- Machine learning engineer
- Robotics specialist.

Course-specific information

This course is accredited by the Australian Computer Society (ACS) at the Professional level.

Professional accreditation

This course is accredited by the professional body, the Australian Computer Society, at the Professional level.

Admission requirements

Admission to this course is based on an entrance rank. A rank can be achieved by the following means:

- Year 12 ATAR
- other Australian Qualification
- work experience
- overseas qualification

We also offer a number of entry initiatives that give you the opportunity to gain entry to the University via alternate pathway programs and admissions schemes.

More information is available on our Alternative Entry page: http://www.canberra.edu.au/future-students/applications/apply-now/alternative-entry

Assumed knowledge

Basic knowledge and skills in ICT (Information and Communication Technology); Basic numeracy and literacy skills.

Periods course is open for new admissions

This course is not open for new admissions.

Credit arrangements

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

Canberra Institute Of Technology

Diploma of Information Technology + Cert IV in Information Technology (29017)

Diploma of Information Technology Networking + Cert IV in Information Technology Networking (29056)

Diploma of Software Development + Cert IV in Programming (28996)

Defence Registered Training Organisation

Diploma of Business (33250)

Other Australian Tafe

Any Australian Certificate IV (AQF4) (31094)

Any Australian Diploma (AQF5) (27393)

Overseas Institution

Any Overseas Qualification equivalent to AQF5 (31044)

Any Overseas Qualification equivalent to the Australian Certificate IV (AQF4) (30680)

Course requirements

Bachelor of Information Technology (322AA) | 72 credit points

Expand All | Collapse All

Required - Must pass 48 credit points as follows

Core Major in Information Technology and Systems (CM0018) | 24 credit points

Required - Must pass 21 credit points as follows

Introduction to Information Technology (4478) | 3 credit points — Level 1

Database Design (5915) | 3 credit points — Level 1

Professional Practice in IT (7722) | 3 credit points — Level 1

Information & Communication Technology Project (9785) | 6 credit points — Level 3

Technological Innovation and Entrepreneurship (11408) | 3 credit points — Level 2

Systems Analysis and Modelling (11486) | 3 credit points — Level 1

Restricted Choice - Must pass 3 credit points from the following

Information Systems in Organisations (6348) | 3 credit points — Level 1

Introduction to Network Engineering (11485) | 3 credit points — Level 1

Note:

- 1. Students in the 322AA BIT, 560AA BSE or ITB101 BET courses must choose 11485 Introduction to Network Engineering.
- 2. Students in the 706AA BBI course must choose 6348 Information Systems in Organisations.
- 3. Students in the 838AA BSE/BBI combined course must do both 11485 Intro to Network Engineering AND 6348 Info Systems in Organisations. The extra cps will count towards the chosen Specialist Major.

Specialist Major in Information Technology (SM0059) | 24 credit points

Required - Must pass 21 credit points as follows

Software Technology 1 (4483) | 3 credit points — Level 1

Designing Human-Computer Interaction (6389) | 3 credit points — Level 2

Discrete Mathematics (6698) | 3 credit points — Level 1

Systems Project and Quality Management (7173) | 3 credit points — Level 3

Web Design and Programming (7175) | 3 credit points — Level 2

Enterprise and Cloud Computing (9281) | 3 credit points — Level 3

Software Systems Architecture (11491) | 3 credit points — Level 3

Restricted Choice - Must pass 3 credit points from the following

Information Security (11487) | 3 credit points — Level 2

Information Security (11759) | 3 credit points — Level 3

Note:

- Effective from 1/7/21 the unit code for Information Security has changed from 11487 to 11759.

Restricted Choice - Must select 1 of the following

Option 1 - Must pass 24 credit points from the following

Specialist Major in Robotics and AI (SM0058) | 24 credit points

Required - Must pass 18 credit points as follows

Soft Computing (7168) | 3 credit points — Level 3

Engineering Mathematics (10087) | 3 credit points — Level 1

Foundations of Robotics (11370) | 3 credit points — Level 2

Computer Vision and Image Analysis (11376) | 3 credit points — Level 3

Advanced Robotics (11479) | 3 credit points — Level 3

Pattern Recognition and Machine Learning (11482) | 3 credit points — Level 3

Restricted Choice - Must pass 6 credit points from the following

- any units offered by the School of Information Technology & Systems, with at least 3 credit points at Advanced (3) level, including the following units:

Software Technology 2 (7170) | 3 credit points — Level 2

Information Sciences Internship (7899) | 3 credit points — Level 3

Information Sciences Internship (Extended) (10152) | 3 credit points — Level 3

Advances in Information Sciences and Engineering (11480) | 3 credit points — Level 3

Note:

- Restricted Choice units should be chosen to either meet the prerequisites of the units in the Major or to complement Major units for a better learning outcome.

Specialist Major in Cloud Computing and IoT (SM0055) | 24 credit points

Required - Must pass 15 credit points as follows

Contemporary IT & E Issues (9788) | 3 credit points — Level 3

Cloud Computing Architecture (11368) | 3 credit points — Level 3

Foundations of Robotics (11370) | 3 credit points — Level 2

Security and Support in IT (11488) | 3 credit points — Level 1

Internet of Things (11511) | 3 credit points — Level 3

Restricted Choice - Must pass 9 credit points from the following

- any units offered by the School of Information Technology & Systems, with at least 3 credit points at Advanced (3) level, including the following units:

Information Sciences Internship (7899) | 3 credit points — Level 3

Information Sciences Internship (Extended) (10152) | 3 credit points — Level 3

Law, Innovation and Technologies (11271) | 3 credit points — Level 3

Advances in Information Sciences and Engineering (11480) | 3 credit points — Level 3

Note:

- 1. Restricted Choice units should be chosen to either meet the prerequisites of the units in the Major or to complement Major units for a better learning outcome.
- 2. Exclusive to this Major only, students may also choose unit 11271 Law, Innovation & Technologies (offered by Faculty of Business, Government & Law) as one of the Restricted Choices units.

Specialist Major in Cybersecurity and System Administration (SM0056) | 24 credit points

Required - Must pass 9 credit points as follows

Introduction to Digital Forensics (9074) | 3 credit points — Level 2

Network Architecture (11484) | 3 credit points — Level 3

System and Network Administration (11514) | 3 credit points — Level 3

Restricted Choice - 15 credit points as follows

Part A - Must pass 3 credit points from the following

Software Technology 1 (4483) | 3 credit points — Level 1

Contemporary IT & E Issues (9788) | 3 credit points — Level 3

Information Security (11759) | 3 credit points — Level 3

Note:

- 1. Students in the 706AA BBI course must choose 4483 Software Technology 1.
- 2. Students in the 322AA BIT or 838AA BSE/BBI courses must choose 9788 Contemporary IT & E Issues.
- 3. Students in the 560AA BSE course must choose 11759 Information Security (or previous unit code 11487).

Part B - Must pass 3 credit points from the following

- Any unit from the School of Information Technology & Systems.

Introduction to Network Engineering (11485) | 3 credit points — Level 1

Note:

- 1. Students in the 706AA BBI or 838AA BSE/BBI courses must choose 11485 Introduction to Network Engineering.

Part C - Must pass 3 credit points from the following

- Any Undergraduate Level 3 unit from the School of Information Technology & Systems.

Part D - Must pass 3 credit points from the following

Computer and Network Security (8019) | 3 credit points — Level 3

Advanced Cyber Security (11907) | 3 credit points — Level 3

Note:

- From Semester 2 2023, 11907 Advanced Cyber Security replaces 8019 Computer and Network Security

Part E - Must pass 3 credit points from the following

Security and Support in IT (11488) | 3 credit points — Level 1

Introduction to Cyber Security (11906) | 3 credit points — Level 1

Note:

- From Semester 2 2023, 11906 Introduction to Cyber Security replaces 11488 Security and Support in IT

Specialist Major in Data Science (SM0057) | 24 credit points

Required - Must pass 15 credit points as follows

Introduction to Statistics (6540) | 3 credit points — Level 1

Data Analytics and Business Intelligence (8696) | 3 credit points — Level 3

Introduction to Data Science (11372) | 3 credit points — Level 3

Exploratory Data Analysis and Visualisation (11374) | 3 credit points — Level 3

Pattern Recognition and Machine Learning (11482) | 3 credit points — Level 3

Restricted Choice - Must pass 9 credit points from the following

- any units offered by the School of Information Technology & Systems, with at least 3 credit points at Advanced (3) level, including the following units:

Information Sciences Internship (7899) | 3 credit points — Level 3

Information Sciences Internship (Extended) (10152) | 3 credit points — Level 3

AR/VR for Data Analysis and Communication (11464) | 3 credit points — Level 3

Advances in Information Sciences and Engineering (11480) | 3 credit points — Level 3

Note:

- Restricted Choice units should be chosen to either meet the prerequisites of the units in the Major or to complement Major units for a better learning outcome.

Option 2 - 24 credit points as follows

- Must pass 24 credit points from anywhere in the University as a breadth major, a breadth minor and/or as individual units.

Individual units may only count towards one major. Only 3 majors can be completed in this course, including core, specialist and breadth majors.

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

Database Design (5915)

Introduction to Information Technology (4478)

Introduction to Network Engineering (11485)

Professional Practice in IT (7722)

Semester 2

Discrete Mathematics (6698)

Software Technology 1 (4483)

Systems Analysis and Modelling (11486)

Technological Innovation and Entrepreneurship (11408)

Year 2

Semester 1

Designing Human-Computer Interaction (6389)

Enterprise and Cloud Computing (9281)

Two Restricted Choice units

Semester 2

Software Systems Architecture (11491)

Web Design and Programming (7175)

Two Restricted Choice units

Year 3

Semester 1

Information Security (11759)

Systems Project and Quality Management (7173)

Two Restricted Choice units

Semester 2

Information & Communication Technology Project (9785)

Two Restricted Choice units

Standard Full Time, Semester 2 Commencing

Year 1

Semester 2

Database Design (5915)

Introduction to Information Technology (4478)

Introduction to Network Engineering (11485)

Professional Practice in IT (7722)

Year 2

Semester 1

Discrete Mathematics (6698)

Software Technology 1 (4483)

Systems Analysis and Modelling (11486)

Technological Innovation and Entrepreneurship (11408)

Semester 2

Systems Project and Quality Management (7173)

Web Design and Programming (7175)

Two Restricted Choice units

Year 3

Semester 1

Designing Human-Computer Interaction (6389)

Enterprise and Cloud Computing (9281)

Two Restricted Choice units

Semester 2

Software Systems Architecture (11491)

Three Restricted Choice units

Year 4

Semester 1

Information & Communication Technology Project (9785)

Information Security (11759)

Restricted Choice unit

Course information

Course duration

Standard six semesters full-time or equivalent. Maximum twenty semesters.

Learning outcomes

Learning outcomes	Related graduate attributes
Explain and practice ICT profession, including professional ethics, professional expectations, team work skills, communication skills, societal issues, legal issues, and privacy issues etc.	UC graduates are professional: Employ up-to-date and relevant knowledge and skills; communicate effectively; 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; 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; and adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas.
Formulate, appraise, and implement ICT solutions under the context of social and economic constraints, legal and ethical issues, risk and benefit balance,	UC graduates are professional: Employ up-to-date and relevant knowledge and skills; communicate effectively; use creativity, critical

technology availability and stakeholders' acceptance, and the professional standards of the industry etc.	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; adopt an informed and balanced approach across professional and international boundaries; understand issues in their profession from the perspective of other cultures; communicate effectively in diverse cultural and social settings; 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; 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 a good command of balanced General ICT Knowledge (information and communication technology) prescribed in ACS CBOK (Australian Computer Society, Core Body of Knowledge), with a focus on applying Technical Resources ranging from the business side to the technical side of ICT.	UC graduates are professional: Work collaboratively as part of a team, negotiate, and resolve conflict; and take pride in their professional and personal integrity.
Examine and determine the available general ICT capabilities to design solutions to complex ICT problems.	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 display initiative and drive, and use their organisational skills to plan and manage their workload. UC graduates are global citizens: Think globally about issues in their profession; adopt an informed and balanced approach across professional and international boundaries; 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; adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas; and evaluate and adopt new technology.
Develop in-depth knowledge and a higher-level skill in a few selected specialised ICT fields and/or build broad knowledge and skills in complement fields, which may not be directly within ICT.	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; and display initiative and drive, and use their organisational skills to plan and manage their workload. UC graduates are global citizens: Think globally about issues in their profession; adopt an informed and balanced approach across professional and international boundaries; 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.

Majors

- Specialist Major in Information Technology (SM0059)
- Core Major in Information Technology and Systems (CM0018)
- Specialist Major in Cloud Computing and IoT (SM0055)
- Specialist Major in Robotics and AI (SM0058)
- Specialist Major in Cybersecurity and System Administration (SM0056)
- Specialist Major in Data Science (SM0057)

Awards

Award	Official abbreviation
Bachelor of Information Technology	BIT

Honours

Students can apply for a one-year honours program after completion of their Bachelor of Information Technology degree, based on their GPA, within ITS program in the Faculty of Science and Technology.

Enquiries

Student category	Contact details
Prospective Domestic Students	E study@canberra.edu.au P 1800 UNI CAN (1800 864 226) W www.canberra.edu.au/future-students
Prospective International Students	E international@canberra.edu.au P +61 2 6201 5342 F +61 2 6201 5040 W www.canberra.edu.au/future-students
Current and Commencing Students	Please contact the University Student Centre by Email student.centre@canberra.edu.au or Phone 1300 301 727

Download your course guide

Scholarships

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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.