

Master of Information Technology (846AA.7)

Please note these are the 2023 details for this course

Domestic students

Selection rank	PG
English language requirements	An IELTS Academic score of 6.5 overall, with no band score below 6.0 (or equivalent). View IELTS equivalences
Duration	1.5 years
UAC code	880265
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Technology
Location	UC - Canberra, Bruce
Fees	2021: \$25,500 per year 2022: \$26,500 per year Disclaimer: Annual fee rates The fees shown are the annual fee rates for the course. The annual rate is the fee that applies to standard full-time enrolment, which is 24 credit points. The final fee charged is based on the proportion of 24 credit points in which a student enrolls. Students enrolled in a Commonwealth Support Place (CSP) are required to make a contribution towards the cost of their education, which is set by the Commonwealth Government. Information on Commonwealth Supported Places, HECS-HELP and how fees are calculated can be found here .

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
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English language requirements	An IELTS Academic score of 6.5 overall, with no band score below 6.0 (or equivalent). View IELTS equivalences
CRICOS code	054178E
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Technology
Location	UC - Canberra, Bruce
Duration	1.5 years
Fees	2021: \$32,900 per year 2022: \$34,100 per year Disclaimer: Annual fee rates The fees shown are the annual fee rates for the course. The annual rate is the fee that applies to standard full-time enrolment, which is 24 credit points. The final fee charged is based on the proportion of 24 credit points in which a student enrolls. Information on how fees are calculated can be found here .

About this course

Master a range of advanced IT skills

The UC Master of Information Technology is specifically designed for those who have an Australian bachelor's degree in information and communications technology, or the equivalent, and looking to create a direct path to a more senior management position.

In this course you will learn how understand and confidently navigate complex ICT subjects, including information science research methodology, technology and engineering management, and explore the emerging areas of advanced IT.

Highly adaptable and flexible, this course allows you to tailor your study plan to include up-to-the-minute specialisation, and also offers a selection of delivery modes, including classes during both weekday evenings and weekday business hours, to help you balance study with your other commitments.

This course also offers an option of undertaking a practical internship within a recognised organisation which is designed to significantly help you build on your classroom knowledge, improve your professional network and provide you with comprehensive insights into genuine working IT environments.

Once you graduate you will possess both the confidence and competence to pursue career advancement in your chosen field of IT, or if you prefer, well-positioned to continue with further postgraduate study in the form of a PhD.

This course offers the chance to specialise in Artificial Intelligence & Machine Learning, Cloud Computing, Cybersecurity, Data Science, Internet of Things & Robotics, Network Technologies or Project Management.

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

- learn how to operate a professional IT practice
- study a broad context of advanced contemporary IT issues
- work alongside and with professional industry specialists
- gain access to UC's professional network
- improve your own professional networks
- fine-tune your written communication skills in the form of management reports, user manuals and technical documentation
- graduate with top level globally recognised qualification
- open new pathways for career progression.

Work Integrated Learning (WIL)

WIL is an integral component of the Master of Information 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 degree is a highly respected industry qualification that offers a direct pathway for progression into a senior management position in any one of the following areas:

- Business and systems analyst
- ICT manager
- ICT security engineer
- Network and systems administrator
- Programmer
- Web developer

Course-specific information

Applicants need to have completed a bachelor's degree in an Information and Communication Technology discipline, or the equivalent. If they have an Australian graduate diploma degree, or the equivalent, in a relevant Information and Communication Technology discipline, 12 credit points are granted, which will equal the first semester's study of the course.

If they have an Australian bachelor's degree in a relevant Information and Communication Technology discipline, or the equivalent plus three years of relevant working experience in ICT disciplines, 12 credit points are granted, which will equal the first semester's study of the course.

Knowledge of IT and/or Business Informatics is assumed.

This is an advanced course in ICT and doesn't need Australian Computer Society (ACS) accreditation, as ACS currently only accredits entry-level ICT courses.

A clear pathway of study exists between this degree, the Graduate Certificate in Information Technology and the Graduate Diploma in Information Technology.

Professional accreditation

This is an advanced course in ICT and does not need Australian Computer Society (ACS) accreditation, as ACS currently only accredits entry level ICT courses.

Admission requirements

An Australian bachelor degree in an Information and Communication Technology discipline, or equivalent.

If an applicant has an Australian graduate diploma degree, or equivalent, in a relevant Information and Communication Technology discipline, 12 credit points are granted, which equals to one semester's study of the course.

If an applicant has an Australian bachelor degree in a relevant Information and Communication Technology disciplines, or equivalent, plus 3 years relevant working experience in ICT disciplines, 12 credit points are granted, which equals to one semester's study of the course.

Assumed knowledge

Proficiency in using computers.

Periods course is open for new admissions

Year	Location	Teaching period	Teaching start date	Domestic	International
2023	UC - Canberra, Bruce	Semester 1	06 February 2023	✓	✓
2023	UC - Canberra, Bruce	Winter Term	30 May 2023	✓	
2023	UC - Canberra, Bruce	Semester 2	31 July 2023	✓	✓
2024	UC - Canberra, Bruce	Semester 1	05 February 2024	✓	✓
2024	UC - Canberra, Bruce	Winter Term	27 May 2024	✓	
2024	UC - Canberra, Bruce	Semester 2	29 July 2024	✓	✓

Credit arrangements

There are currently no formal credit transfer arrangements for entry to this course. Any previous study or work experience will only be considered as part of the application process in accordance with current [course rules and university policy](#). Credit is not permitted towards completion of a graduate certificate.

Course requirements

Master of Information Technology (846AA) | 36 credit points

Required - Must pass 18 credit points as follows

[Professional Practice in IT G \(6676\) | 3 credit points – Level G](#)

[Inf. Sc. Research Methodology PG \(6797\) | 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

- Students may seek permission from the Program Director to replace one or more Required units with other units by writing a report detailing their previous experience or study.

Restricted Choice - 18 credit points as follows

Part A - Must pass 3 credit points from the following

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

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

Part B - Must select 1 of the following

No Specialisation - 15 credit points as follows

G Level Units - May do up to 3 credit points from the following

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

Database Design G (6672) | 3 credit points – Level G

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

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

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

Web Design and Programming G (6691) | 3 credit points – Level G

Discrete Mathematics G (6699) | 3 credit points – Level G

Software Systems Architecture G (8746) | 3 credit points – Level G

Systems Software G (8935) | 3 credit points – Level G

Mathematical Structures G (8938) | 3 credit points – Level G

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

Software Technology 2 G (9073) | 3 credit points – Level G

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

Mobile Technologies G (9076) | 3 credit points – Level G

Management Information Systems G (9503) | 3 credit points – Level G

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

Electronics Systems G (10091) | 3 credit points – Level G

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

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

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

Data Capture and Preparations G (11520) | 3 credit points – Level G

Programming for Data Science G (11521) | 3 credit points – Level G

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

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

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.

- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.

- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

PG Level Units - Must do at least 12 credit points from the following

Business Intelligence Systems PG (6680) | 3 credit points – Level P

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

Knowledge Management Systems PG (6688) | 3 credit points – Level P

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

Client-Server Computing PG (6693) | 3 credit points – Level P

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

Business Informatics Case Studies PG (7106) | 3 credit points – Level P

Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P

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

Game Programming Techniques PG (7191) | 3 credit points – Level P

Social Informatics PG (7196) | 3 credit points – Level P

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

Information Sciences Internship PG (7900) | 3 credit points – Level P

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

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

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

Programming Natural User Interfaces PG (8891) | 3 credit points – Level P

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

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

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

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

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

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

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

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

Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P

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

Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

- Awards: To have a specialisation on the degree testamur, a student must complete at least 4 PG Level units from that specialisation. Only 1 specialisation can appear on the degree testamur.

- Unit Availability: In any semester, only a selection of units are on offer.

AI & Machine Learning specialisation - 15 credit points as follows

Specialist Units - Must pass at least 9 credit points from the following

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

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

Web Design and Programming G (6691) | 3 credit points – Level G

Game Programming Techniques PG (7191) | 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

Programming Natural User Interfaces PG (8891) | 3 credit points – Level P

Mobile Technologies G (9076) | 3 credit points – Level G

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

- Students may not have more than one G Level units for the entire specialisation.

Restricted Choice Units - May do up to 6 credit points from the following

G Level Units - May select from

Database Design G (6672) | 3 credit points – Level G

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

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

Discrete Mathematics G (6699) | 3 credit points – Level G

Software Systems Architecture G (8746) | 3 credit points – Level G

Systems Software G (8935) | 3 credit points – Level G

Mathematical Structures G (8938) | 3 credit points – Level G

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

Software Technology 2 G (9073) | 3 credit points – Level G

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

Management Information Systems G (9503) | 3 credit points – Level G

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

Electronics Systems G (10091) | 3 credit points – Level G

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

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

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

Data Capture and Preparations G (11520) | 3 credit points – Level G

Programming for Data Science G (11521) | 3 credit points – Level G

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

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

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.

- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.

- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

PG Level Units - May select from

Business Intelligence Systems PG (6680) | 3 credit points – Level P

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

Knowledge Management Systems PG (6688) | 3 credit points – Level P

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

Client-Server Computing PG (6693) | 3 credit points – Level P

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

Business Informatics Case Studies PG (7106) | 3 credit points – Level P

Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P

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

Social Informatics PG (7196) | 3 credit points – Level P

Information Sciences Internship PG (7900) | 3 credit points – Level P

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

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

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

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

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

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

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

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

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

Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P

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

Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

Cloud Computing specialisation - 15 credit points as follows

Restricted Choice Units - May do up to 6 credit points from the following

G Level Units - May select from

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

Database Design G (6672) | 3 credit points – Level G

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

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

Web Design and Programming G (6691) | 3 credit points – Level G

Discrete Mathematics G (6699) | 3 credit points – Level G

Systems Software G (8935) | 3 credit points – Level G

Mathematical Structures G (8938) | 3 credit points – Level G

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

Software Technology 2 G (9073) | 3 credit points – Level G

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

Mobile Technologies G (9076) | 3 credit points – Level G

Management Information Systems G (9503) | 3 credit points – Level G

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

Electronics Systems G (10091) | 3 credit points – Level G

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

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

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

Data Capture and Preparations G (11520) | 3 credit points – Level G

Programming for Data Science G (11521) | 3 credit points – Level G

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

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

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.
- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.
- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

PG Level Units - May select from

- Business Intelligence Systems PG (6680) | 3 credit points – Level P
- Information Security PG (6682) | 3 credit points – Level P
- Knowledge Management Systems PG (6688) | 3 credit points – Level P
- High Speed Networks PG (6692) | 3 credit points – Level P
- Client-Server Computing PG (6693) | 3 credit points – Level P
- Computer and Network Security PG (6697) | 3 credit points – Level P
- Business Informatics Case Studies PG (7106) | 3 credit points – Level P
- Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P
- Information Systems Management PG (7109) | 3 credit points – Level P
- Game Programming Techniques PG (7191) | 3 credit points – Level P
- Social Informatics PG (7196) | 3 credit points – Level P
- Soft Computing PG (7197) | 3 credit points – Level P
- Information Sciences Internship PG (7900) | 3 credit points – Level P
- Project Management PG (8427) | 3 credit points – Level P
- Data Analytics and Business Intelligence PG (8697) | 3 credit points – Level P
- Computer Vision and Image Analysis PG (8890) | 3 credit points – Level P
- Programming Natural User Interfaces PG (8891) | 3 credit points – Level P
- Network Architecture PG (10099) | 3 credit points – Level P
- Wireless Networks PG (10100) | 3 credit points – Level P
- Pattern Recognition and Machine Learning PG (11512) | 3 credit points – Level P
- System and Network Administration PG (11515) | 3 credit points – Level P
- AR/VR for Data Analysis and Communication PG (11524) | 3 credit points – Level P
- Advanced Robotics PG (11525) | 3 credit points – Level P
- Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P
- Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

Specialist Units - Must pass at least 9 credit points from the following

- Security and Support in IT G (6689) | 3 credit points – Level G
- Software Systems Architecture G (8746) | 3 credit points – Level G
- Law, Innovation and Technologies PG (11471) | 3 credit points – Level P
- Enterprise and Cloud Computing PG (11510) | 3 credit points – Level P
- Internet of Things PG (11513) | 3 credit points – Level P
- Cloud Computing Architecture PG (11527) | 3 credit points – Level P

- Students may not have more than one G Level units for the entire specialisation.

Data Science specialisation - 15 credit points as follows

Specialist Units - Must pass at least 9 credit points from the following

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

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

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

Pattern Recognition and Machine Learning PG (11512) | 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 Capture and Preparations G (11520) | 3 credit points – Level G

Programming for Data Science G (11521) | 3 credit points – Level G

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

- Students may not have more than one G Level units for the entire specialisation.

Restricted Choice Units - May do up to 6 credit points from the following

G Level Units - May select from

Database Design G (6672) | 3 credit points – Level G

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

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

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

Web Design and Programming G (6691) | 3 credit points – Level G

Discrete Mathematics G (6699) | 3 credit points – Level G

Software Systems Architecture G (8746) | 3 credit points – Level G

Systems Software G (8935) | 3 credit points – Level G

Mathematical Structures G (8938) | 3 credit points – Level G

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

Software Technology 2 G (9073) | 3 credit points – Level G

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

Mobile Technologies G (9076) | 3 credit points – Level G

Management Information Systems G (9503) | 3 credit points – Level G

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

Electronics Systems G (10091) | 3 credit points – Level G

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

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

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

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.

- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.

- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

PG Level Units - May select from

- Business Intelligence Systems PG (6680) | 3 credit points – Level P
- Information Security PG (6682) | 3 credit points – Level P
- Knowledge Management Systems PG (6688) | 3 credit points – Level P
- High Speed Networks PG (6692) | 3 credit points – Level P
- Client-Server Computing PG (6693) | 3 credit points – Level P
- Computer and Network Security PG (6697) | 3 credit points – Level P
- Business Informatics Case Studies PG (7106) | 3 credit points – Level P
- Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P
- Information Systems Management PG (7109) | 3 credit points – Level P
- Game Programming Techniques PG (7191) | 3 credit points – Level P
- Social Informatics PG (7196) | 3 credit points – Level P
- Information Sciences Internship PG (7900) | 3 credit points – Level P
- Project Management PG (8427) | 3 credit points – Level P
- Computer Vision and Image Analysis PG (8890) | 3 credit points – Level P
- Programming Natural User Interfaces PG (8891) | 3 credit points – Level P
- Network Architecture PG (10099) | 3 credit points – Level P
- Wireless Networks PG (10100) | 3 credit points – Level P
- Enterprise and Cloud Computing PG (11510) | 3 credit points – Level P
- Internet of Things PG (11513) | 3 credit points – Level P
- System and Network Administration PG (11515) | 3 credit points – Level P
- Advanced Robotics PG (11525) | 3 credit points – Level P
- Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P
- Cloud Computing Architecture PG (11527) | 3 credit points – Level P
- Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

IoT & Robotics specialisation - 15 credit points as follows

Specialist Units - Must pass at least 9 credit points from the following

- Designing Human-Computer Interaction G (6673) | 3 credit points – Level G
- Computer Vision and Image Analysis PG (8890) | 3 credit points – Level P
- Engineering Mathematics G (10090) | 3 credit points – Level G
- Enterprise and Cloud Computing PG (11510) | 3 credit points – Level P
- 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

- Students may not have more than one G Level units for the entire specialisation.

Restricted Choice Units - May do up to 6 credit points from the following

PG Level Units - May select from

- Business Intelligence Systems PG (6680) | 3 credit points – Level P
- Information Security PG (6682) | 3 credit points – Level P

Knowledge Management Systems PG (6688) | 3 credit points – Level P

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

Client-Server Computing PG (6693) | 3 credit points – Level P

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

Business Informatics Case Studies PG (7106) | 3 credit points – Level P

Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P

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

Game Programming Techniques PG (7191) | 3 credit points – Level P

Social Informatics PG (7196) | 3 credit points – Level P

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

Information Sciences Internship PG (7900) | 3 credit points – Level P

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

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

Programming Natural User Interfaces PG (8891) | 3 credit points – Level P

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

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

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

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

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

Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P

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

Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

G Level Units - May select from

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

Database Design G (6672) | 3 credit points – Level G

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

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

Web Design and Programming G (6691) | 3 credit points – Level G

Discrete Mathematics G (6699) | 3 credit points – Level G

Software Systems Architecture G (8746) | 3 credit points – Level G

Systems Software G (8935) | 3 credit points – Level G

Mathematical Structures G (8938) | 3 credit points – Level G

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

Software Technology 2 G (9073) | 3 credit points – Level G

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

Mobile Technologies G (9076) | 3 credit points – Level G

Management Information Systems G (9503) | 3 credit points – Level G

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

Electronics Systems G (10091) | 3 credit points – Level G

Introduction to Data Science G (11516) | 3 credit points – Level G
Exploratory Data Analysis and Visualisation G (11517) | 3 credit points – Level G
Enterprise Systems G (11518) | 3 credit points – Level G
Data Capture and Preparations G (11520) | 3 credit points – Level G
Programming for Data Science G (11521) | 3 credit points – Level G
Workflow and Process Management G (11529) | 3 credit points – Level G

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.
- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.
- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

Project Management specialisation - 15 credit points as follows

Specialist Units - Must pass at least 9 credit points from the following

Systems Analysis and Modelling G (6677) | 3 credit points – Level G
Business Intelligence Systems PG (6680) | 3 credit points – Level P
Information Security PG (6682) | 3 credit points – Level P
Business Informatics Case Studies PG (7106) | 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

- Students may not have more than one G Level units for the entire specialisation.

Restricted Choice Units - May do up to 6 credit points from the following

G Level Units - May select from

Introduction to Statistics G (6554) | 3 credit points – Level G
Database Design G (6672) | 3 credit points – Level G
Designing Human-Computer Interaction G (6673) | 3 credit points – Level G
Security and Support in IT G (6689) | 3 credit points – Level G
Web Design and Programming G (6691) | 3 credit points – Level G
Discrete Mathematics G (6699) | 3 credit points – Level G
Software Systems Architecture G (8746) | 3 credit points – Level G
Systems Software G (8935) | 3 credit points – Level G
Mathematical Structures G (8938) | 3 credit points – Level G
Software Technology 1 G (8995) | 3 credit points – Level G
Software Technology 2 G (9073) | 3 credit points – Level G
Introduction to Digital Forensics G (9075) | 3 credit points – Level G
Mobile Technologies G (9076) | 3 credit points – Level G
Management Information Systems G (9503) | 3 credit points – Level G
Introduction to Network Engineering G (10088) | 3 credit points – Level G
Electronics Systems G (10091) | 3 credit points – Level G

Introduction to Data Science G (11516) | 3 credit points – Level G
Exploratory Data Analysis and Visualisation G (11517) | 3 credit points – Level G
Data Capture and Preparations G (11520) | 3 credit points – Level G
Programming for Data Science G (11521) | 3 credit points – Level G
Foundations of Robotics G (11528) | 3 credit points – Level G

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.
- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.
- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

PG Level Units - May select from

Knowledge Management Systems PG (6688) | 3 credit points – Level P
High Speed Networks PG (6692) | 3 credit points – Level P
Client-Server Computing PG (6693) | 3 credit points – Level P
Computer and Network Security PG (6697) | 3 credit points – Level P
Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P
Game Programming Techniques PG (7191) | 3 credit points – Level P
Social Informatics PG (7196) | 3 credit points – Level P
Soft Computing PG (7197) | 3 credit points – Level P
Information Sciences Internship PG (7900) | 3 credit points – Level P
Data Analytics and Business Intelligence PG (8697) | 3 credit points – Level P
Computer Vision and Image Analysis PG (8890) | 3 credit points – Level P
Programming Natural User Interfaces PG (8891) | 3 credit points – Level P
Network Architecture PG (10099) | 3 credit points – Level P
Wireless Networks PG (10100) | 3 credit points – Level P
Enterprise and Cloud Computing PG (11510) | 3 credit points – Level P
Pattern Recognition and Machine Learning PG (11512) | 3 credit points – Level P
Internet of Things PG (11513) | 3 credit points – Level P
System and Network Administration PG (11515) | 3 credit points – Level P
AR/VR for Data Analysis and Communication PG (11524) | 3 credit points – Level P
Advanced Robotics PG (11525) | 3 credit points – Level P
Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P
Cloud Computing Architecture PG (11527) | 3 credit points – Level P
Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

Cybersecurity specialisation - 15 credit points as follows

Specialist Units - Must pass at least 9 credit points from the following

Information Security PG (6682) | 3 credit points – Level P
Security and Support in IT G (6689) | 3 credit points – Level G
Computer and Network Security PG (6697) | 3 credit points – Level P
Introduction to Digital Forensics G (9075) | 3 credit points – Level G

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

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

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

- Students may not have more than one G Level units for the entire specialisation.

Restricted Choice Units - May do up to 6 credit points from the following

G Level Units - May select from

Database Design G (6672) | 3 credit points – Level G

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

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

Web Design and Programming G (6691) | 3 credit points – Level G

Discrete Mathematics G (6699) | 3 credit points – Level G

Software Systems Architecture G (8746) | 3 credit points – Level G

Systems Software G (8935) | 3 credit points – Level G

Mathematical Structures G (8938) | 3 credit points – Level G

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

Software Technology 2 G (9073) | 3 credit points – Level G

Mobile Technologies G (9076) | 3 credit points – Level G

Management Information Systems G (9503) | 3 credit points – Level G

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

Electronics Systems G (10091) | 3 credit points – Level G

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

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

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

Data Capture and Preparations G (11520) | 3 credit points – Level G

Programming for Data Science G (11521) | 3 credit points – Level G

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

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

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.

- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.

- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

PG Level Units - May select from

Business Intelligence Systems PG (6680) | 3 credit points – Level P

Knowledge Management Systems PG (6688) | 3 credit points – Level P

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

Client-Server Computing PG (6693) | 3 credit points – Level P

Business Informatics Case Studies PG (7106) | 3 credit points – Level P

Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P

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

Game Programming Techniques PG (7191) | 3 credit points – Level P

Social Informatics PG (7196) | 3 credit points – Level P

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

Information Sciences Internship PG (7900) | 3 credit points – Level P

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

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

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

Programming Natural User Interfaces PG (8891) | 3 credit points – Level P

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

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

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

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

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

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

Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P

Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

Network Technologies specialisation - 15 credit points as follows

Restricted Choice Units - May do up to 6 credit points from the following

G Level Units - May select from

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

Database Design G (6672) | 3 credit points – Level G

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

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

Discrete Mathematics G (6699) | 3 credit points – Level G

Software Systems Architecture G (8746) | 3 credit points – Level G

Systems Software G (8935) | 3 credit points – Level G

Mathematical Structures G (8938) | 3 credit points – Level G

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

Software Technology 2 G (9073) | 3 credit points – Level G

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

Management Information Systems G (9503) | 3 credit points – Level G

Electronics Systems G (10091) | 3 credit points – Level G

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

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

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

Data Capture and Preparations G (11520) | 3 credit points – Level G

Programming for Data Science G (11521) | 3 credit points – Level G

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

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

- 1. G Level units should be chosen to satisfy prerequisite requirements of the PG Level units in the desired specialisation.
- 2. Students must not select G Level units that are similar to any they have studied in their pathway courses.
- 3. With the permission of the Program Director, G Level units may be replaced by PG Level units.

PG Level Units - May select from

Business Intelligence Systems PG (6680) | 3 credit points – Level P

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

Knowledge Management Systems PG (6688) | 3 credit points – Level P

Business Informatics Case Studies PG (7106) | 3 credit points – Level P

Graphics Visualisation Techniques PG (7108) | 3 credit points – Level P

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

Game Programming Techniques PG (7191) | 3 credit points – Level P

Social Informatics PG (7196) | 3 credit points – Level P

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

Information Sciences Internship PG (7900) | 3 credit points – Level P

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

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

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

Programming Natural User Interfaces PG (8891) | 3 credit points – Level P

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

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

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

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

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

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

Advances in Information Sciences and Engineering PG (11526) | 3 credit points – Level P

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

Information Sciences Internship (Extended) PG (11531) | 3 credit points – Level P

Specialist Units - Must pass at least 9 credit points from the following

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

Web Design and Programming G (6691) | 3 credit points – Level G

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

Client-Server Computing PG (6693) | 3 credit points – Level P

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

Mobile Technologies G (9076) | 3 credit points – Level G

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

- Students may not have more than one G Level units for the entire specialisation.

In addition to course requirements, in order to successfully complete your course you may need to 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

[Professional Practice in IT G \(6676\)](#)

[Technological Innovation and Entrepreneurship G \(11530\)](#)

[Systems Project and Quality Management G \(6678\)](#) OR

[Technology and Engineering Management PG \(9784\)](#)

One Restricted Choice Unit (PG or G Level)

Semester 2

Two Restricted Choice Units (PG Level)

[Contemporary IT & E Issues PG \(9787\)](#)

[Inf. Sc. Research Methodology PG \(6797\)](#)

Year 2

Semester 1

[Technology Capstone Research Project PG \(11522\)](#)

Two Restricted Choice Units (PG Level)

Standard Full Time, Semester 2 Commencing

Year 1

Semester 2

[Inf. Sc. Research Methodology PG \(6797\)](#)

[Professional Practice in IT G \(6676\)](#)

[Technological Innovation and Entrepreneurship G \(11530\)](#)

One Restricted Choice Part B Unit (G or PG Level)

Year 2

Semester 1

Three Restricted Choice Part B Units (PG Level)

[Systems Project and Quality Management G \(6678\)](#) OR

[Technology and Engineering Management PG \(9784\)](#)

Semester 2

[Contemporary IT & E Issues PG \(9787\)](#)

[Technology Capstone Research Project PG \(11522\)](#)

One Restricted Choice Part B Unit (PG Level)

Course information

Course duration

Standard 1.5 years full-time, or part-time equivalent. Maximum duration - 5 years.

Learning outcomes

Learning outcomes	Related graduate attributes
<p>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.</p>	<p>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.</p> <p>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.</p> <p>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.</p>
<p>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.</p>	<p>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;</p> <p>and take pride in their professional and personal integrity.</p> <p>UC graduates are global citizens: Make creative use of technology in their learning and professional lives; and behave ethically and sustainably in their professional and personal lives.</p> <p>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.</p>
<p>Navigate in an increasingly complex global technological innovation environment, with legal, ethical, economic and business-related challenges, in a fast-changing field.</p>	<p>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.</p>

	<p>UC graduates are global citizens: Think globally about issues in their profession; and make creative use of technology in their learning and professional lives.</p> <p>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.</p>
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Competently use professional skills and knowledge in the systematic development of complex information technologies and system and apply their skills and knowledge in a professionally responsible manner.

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.

<p>Communicate effectively with other computer scientists, information technology and systems specialists, and the wider global community using a wide range of communication technologies, undertake research in information technology and systems, and work professionally as an individual and in a team.</p>	<p>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.</p> <p>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.</p> <p>UC graduates are lifelong learners: Evaluate and adopt new technology.</p>
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Design and develop innovative information technology-based solutions appropriate to the social, political, international,

UC graduates are professional: Employ up-to-date and relevant

economic and environmental contexts in which they are applied, and engage in the process of research and the continuing learning needed to retain the necessary level of professional skills and knowledge in information technology and systems.

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

Alternative exits

Combined vertical degree: The Master of Information Technology may be combined with the Bachelor of Information Technology, Bachelor of Software Engineering or Bachelor of Business Informatics.

Enrolment data

2020 enrolments for this course by location. Please note that enrolment numbers are indicative only and in no way reflect individual class sizes.

Location	Enrolments
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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

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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.