UNIVERSITY OF CANBERRA

Master of Information Sciences (Research) (861AA.2)

Please note these are the 2021 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	
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	055937G
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

Master IT with a groundbreaking research project

If you already have a degree in information sciences, but are looking to take your research skills to the next level, this course lets you extend your knowledge and make valuable new contributions to the pioneering field of information technology (IT). You will undertake advanced coursework and research across a broad spectrum of engineering and IT-related areas, including statistics, business informatics, mathematics, information systems, network engineering, software engineering, artificial intelligence, and more.

Under the professional guidance of an expert supervisory panel, you will be introduced to research methodology, learn how to frame a research proposal and then prepare a formal thesis to be presented in seminar-form at the end of your study. Upon graduation, you will have a range of career and study choices available to you, such as entering the workforce as a job-ready network security engineer, software engineer, web application developer or project manager, or pursuing a PhD in research. As a Higher Degree by Research (HDR), this course is covered under the Australian Government's Research Training Program (RTP) funding model, which provides a fee offset for domestic students for the standard duration of the course.

Study a Master of Information Sciences (Research) at UC and you will:

- learn important research methodology and techniques
- tailor your study program with the detailed support of expert academics
- demonstrate your communication skills with the submission of a thesis and the presentation of a seminar.

Work Integrated Learning

Work Integrated Learning (WIL) is heavily embedded in both the coursework and thesis components of your course. A large proportion of

your study will be practice-based and, during your research project, you will be closely mentored by a supervisory panel made up of industry professionals at the forefront of their field. You will also be encouraged to tailor your studies to suit either your previous employment experience or future career ambitions.

Career opportunities

- Researcher
- Software engineer
- Network engineer
- Web application developer
- Network security engineer
- Software and hardware programmer
- Network and systems administrator
- IT project manager
- IoT (Internet of Things) specialist
- ICT security engineer
- Software and network engineering consultant
- Artificial intelligence and machine learning engineer

Course-specific information

To be eligible for admission, applicants must:

- have a degree in information sciences (such as Bachelor of Business Informatics, Bachelor of Information Technology, Bachelor of Software Engineering, etc.) with an average grade of Credit or better; or
- have a Master of Technology or equivalent with an average grade of Credit or better
- evidence capacity for doing research at a master's level.

Domestic students who are accepted on this course are provided for under the Australian Government's Research Training Program (RTP) funding model, which provides a fee offset for the standard duration of the course. Once your RTP entitlement is consumed, you will be charged the annual fee rate that applied at the start of your degree. Further information on fees for Higher Degree by Research (HDR) students can be found here.

Admission requirements

The entry requirements of the course are:

- a degree in information sciences (such as Bachelor of Business Informatics, Bachelor of Information Technology, Bachelor of Software Engineering) with an average grade of credit or better; or

- a Master of Technology or equivalent with an average grade of credit or better and evidence of capacity for doing research at the Masters level (as per Gold Book 3.4.4.1-2).

Assumed knowledge

None.

Periods course is open for new admissions

Year	Location	Teaching period	Teaching start date	Domestic	International
2025	Bruce, Canberra	Research Semester 2		✓	✓
2025	Bruce, Canberra	Research Semester 1		✓	✓
2026	Bruce, Canberra	Research Semester 2		✓	✓
2026	Bruce, Canberra	Research Semester 1		✓	✓
2027	Bruce, Canberra	Research Semester 2		✓	✓
2027	Bruce, Canberra	Research Semester 1		✓	✓

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.

Course requirements

Master of Information Sciences (Research) (861AA) | 48 credit points

Required Units - Must pass 6 credit points as follows

Expand All | Collapse All

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

Inf. Sc. Research Proposal R (6798) | 3 credit points — Level R

Restricted Choice - 42 credit points from the following

Coursework - Must pass 12 credit points from the following

- 12cp from PG level units offered by the Faculty of Information Sciences and Engineering as approved by the Course Convener.

Thesis - Must pass 30 credit points as follows

- 1. A specific program of coursework, research methodology and research proposal will be developed with each student and the appropriate award (M InfSc or ME) selected.

- 1.1. Students are encouraged to complete a HDR Study Plan request which will confirm which coursework units

they have been approved to enrol in.

- 2. Research Education Program - Candidates may be required to complete a Research Education Program to acquire the generic skills and attributes identified as appropriate for graduates of postgraduate

- 2.1. upon recommendation from the supervisory panel.

- 3. This program and selected award will be reflected in the student's Learning Plan and will be used in assessing milestones and for thesis examination purposes.

Master of Inf. Sc. Thesis R FT (6802) | 30 credit points — Level R

Master of Inf. Sc. Thesis R PT (6803) | 30 credit points — Level R

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

Research Semester 1

Inf. Sc. Research Proposal R (6798)

Restricted Choice Coursework Unit/s (9cp)

Research Semester 2

Master of Inf. Sc. Thesis R PT (6803)

Restricted Choice Coursework Unit (3cp)

Inf. Sc. Research Methodology PG (6797)

Year 2

Research Semester 1

Master of Inf. Sc. Thesis R FT (6802)

Research Semester 2

Master of Inf. Sc. Thesis R FT (6802)

Standard Full Time, Semester 2 Commencing

Year 1

Research Semester 2

Inf. Sc. Research Proposal R (6798)

Restricted Choice Coursework Unit/s (9cp)

Year 2

Research Semester 1

Restricted Choice Coursework Unit (3cp)

Inf. Sc. Research Methodology PG (6797)

Master of Inf. Sc. Thesis R PT (6803)

Research Semester 2

Master of Inf. Sc. Thesis R FT (6802)

Year 3

Research Semester 1

Master of Inf. Sc. Thesis R FT (6802)

Standard Part Time, Semester 1 Commencing

Year 1

Research Semester 1

Inf. Sc. Research Proposal R (6798)

Restricted Choice Coursework Unit (3cp)

Research Semester 2

Restricted Choice Coursework Unit (3cp)

Inf. Sc. Research Methodology PG (6797)

Year 2

Research Semester 1

Restricted Choice Coursework Unit (3cp)

Master of Inf. Sc. Thesis R PT (6803)

Research Semester 2

Master of Inf. Sc. Thesis R PT (6803)

Restricted Choice Coursework Unit (3cp)

Year 3

Research Semester 1

Master of Inf. Sc. Thesis R PT (6803)

Research Semester 2

Master of Inf. Sc. Thesis R PT (6803)

Year 4

Research Semester 1

Master of Inf. Sc. Thesis R PT (6803)

Research Semester 2

Master of Inf. Sc. Thesis R PT (6803)

Standard Part Time, Semester 2 Commencing

Year 1

Research Semester 2

Restricted Choice Coursework Unit (3cp)

Inf. Sc. Research Proposal R (6798)

Year 2

Research Semester 1

Inf. Sc. Research Methodology PG (6797)

Restricted Choice Coursework Unit (3cp)

Research Semester 2

Master of Inf. Sc. Thesis R PT (6803)

Restricted Choice Coursework Unit (3cp)

Year 3

Research Semester 1

Master of Inf. Sc. Thesis R PT (6803)

Restricted Choice Coursework Unit (3cp)

Research Semester 2

[Master of Inf. Sc. Thesis R PT (6803)](#)

Year 4

Research Semester 1

[Master of Inf. Sc. Thesis R PT (6803)](#)

Research Semester 2

[Master of Inf. Sc. Thesis R PT (6803)](#)

Year 5

Research Semester 1

[Master of Inf. Sc. Thesis R PT (6803)](#)

Course information

Course duration

Standard 2 years full time. Maximum 6 years from date of enrolment to date of course completion.

Learning outcomes

Learning outcomes	Related graduate attributes
Expertise and skills in research to test established theories against a body of knowledge in IT fields; expertise and skills in designing and testing hypothesis for problem solving and conducting research; expertise and skills in contributing new knowledge and skills to the IT fields.	Analysis and enquiry Problem solving Personal attributes: critical thinking, reflective practice, thriving in an environment of change
Solid foundation of the relevant theories and the basic principles relevant disciplines of information and communication technology, information systems, computer sciences, and network engineering; from the foundation to acquire up-to-date knowledge and skills in the future.	Analysis and enquiry Personal attributes: critical thinking, reflective practice, thriving in an environment of change

Communication skills in listening, reading, speaking, explaining, teaching, and writing from and to audiences of different backgrounds and papers of different scops and levels.	Professionalism and social responsibility Communication; Problem solving Working independently and with others
Advanced knowledge of applying research methods in solving outstanding research problems and contribution of knowledge by publishing peer reviewed research papers.	Analysis and enquiry Communication; Problem solving Personal attributes: critical thinking, reflective practice, thriving in an environment of change
Knowledge of the latest development in the relevant disciplines of information and communication technology, information systems, computer sciences, and network engineering, and being able to conduct research independently and/or work in a team.	Analysis and enquiry Working independently and with others

Awards

Award	Official abbreviation
Master of Information Sciences (Research)	MInfSc (Research)
Master of Engineering (Research)	ME (Research)

Enquiries

Student category	Contact details
Prospective Students - Domestic	E study@canberra.edu.au P 1800 UNI CAN (1800 864 226) W www.canberra.edu.au/future-students
Prospective Students - International	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

Find the scholarship that's the right fit for you

Explore Scholarships

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.