UNIVERSITY OF CANBERRA

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

Please note these are the 2022 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	2.0 years
UAC code	
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Technology
Location	UC - Canberra, Bruce
Fees	2021: $22,800 per year 2022: $23,600 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 enrols. 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

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	055937G
Faculty	Faculty of Science and Technology
Discipline	Academic Program Area - Technology
Location	UC - Canberra, Bruce
Duration	2.0 years
Fees	2021: $27,800 per year 2022: $28,700 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 enrols. Information on how fees are calculated can be found here.

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
2022	UC - Canberra, Bruce	Research Semester 1		✓	✓

2022	UC - Canberra, Bruce	Research Semester 2	✓	✓
2023	UC - Canberra, Bruce	Research Semester 1	✓	✓
2023	UC - Canberra, Bruce	Research Semester 2	✓	✓
2024	UC - Canberra, Bruce	Research Semester 1	✓	✓
2024	UC - Canberra, Bruce	Research Semester 2	✓	✓

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 Sciences (Research) (861AA) | 48 credit points

Required Units - Must pass 6 credit points as follows

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

Thesis - Must pass 30 credit points as follows

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

- Research Education Program - Candidates are also required to complete a Research Education Program to acquire the generic skills and attributes identified as appropriate for graduates of postgraduate

- 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.

- research programs at the University.

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 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

Research Semester 1 **Research Semester 2**

Inf. Sc. Research Proposal R (6798)

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

Inf. Sc. Research Methodology PG (6797)

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

Year 2

Research Semester 1

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

Research Semester 2

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

Course information

Course duration

Standard four semesters full-time or equivalent. Maximum eight semesters.

Learning outcomes

Learning outcomes	Related graduate attributes
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
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
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

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

Awards

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

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
UC - Canberra, Bruce	12

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

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ABN 81 633 873 422
CRICOS 00212K

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.