



Program

Information Technology

8543 | 96 Units of Credit

Overview

The Master of Information Technology is a 2-year program intended for:

- students with no or minimal prior computing background who wish to obtain a qualification in this discipline; or
- students with a bachelor degree in a relevant discipline who want to obtain a broader understanding of computing; or
- students with a bachelor degree in computer science or computer engineering who wish to specialise in some particular areas of the discipline

Advanced standing of up to 1 year is possible for students with an appropriate qualification.

The aim of this program is to provide students with a broad-based IT education, and more specialised knowledge in up to two areas, enabling them to work in a range of positions in the IT industry.

Faculty

Faculty of Engineering

Campus

Kensington

Study Level

Postgraduate

Typical duration

2 Years

Delivery Mode

Face-to-face

Intake Period

Term 1, Term 2, Term 3

Academic Calendar

3+ Calendar

Minimum Units of Credit

96

Award type

Masters (Coursework)

Award(s)

Master of Information Technology -
MIT

CRICOS Code

061294J

Learning Outcomes

1. Ability to critically analyse the variety of potential solutions to a given problem and assess the trade-offs involved, so as to decide which one is most suitable.

Scholars

2. Ability to identify and master the technology needed for the successful completion of a project. Ability to identify from the research literature what can be put into practical use.

Professionals

3. Ability to evaluate new methods and techniques and not adopt them before having given careful consideration to, in particular, their robustness, their scalability and their effectiveness.

Scholars

4. Ability to identify future trends and create tomorrow's technology, and determination to bring positive changes to society.

Global Citizens

5. Ability to have a multi-disciplinary approach and borrow and adapt the methods and techniques used in one area to solve problems in another area.

Leaders

6. Ability to identify which known problems are closest to the problem under investigation, and creatively adapt solutions to the former in order to solve the latter.

Scholars

7. Ability to work in groups and lead projects, understand user requirements and bring projects to successful completion thanks to the coordinated efforts of different teams.

Leaders

8. Knowledge of the latest developments of IT technology and current practices in software design, implementation and maintenance. Knowledge of the critical aspects of IT technology, in particular in relation to security, robustness and reliability.

Scholars

Graduate Capabilities:

For more information on Graduate Capabilities, please click on this [link](#).

Program Structure

Students must complete 96 UOC as a standalone program.

Regardless of which stream is chosen, students must complete the following:

- 96 UOC overall
- COMP9021 Principles of Programming (6 UOC)
- COMP9024 Data Structures & Algorithms (6 UOC)
- COMP9311 Database Systems (6 UOC)
- COMP9331 Computer Networks&Applications (6 UOC)
- GSOE9820 Project Management (6 UOC)
- 60 UOC more Disciplinary Electives from the CSE Course List

One of the following:

- COMP9900 Info Tech Project (6 UOC)
- COMP9991 Research Project A (6 UOC) + COMP9992 Research Project B (6 UOC)
- COMP9991 Research Project A (6 UOC) + COMP9993 Research Project C (12 UOC)

Advanced Disciplinary Knowledge (ADK) requirement:

- at least 36 uoc of the Disciplinary Elective courses must come from the ADK course list

Specialisation Options

Students must complete either one or two of the following streams. Information Technology (COMPCS) is the default stream for this program and will be selected if no other stream is nominated.

SPECIALISATION:

COMPAS | 96 UOC
Artificial Intelligence

COMPBS | 96 UOC
Bioinformatics

COMPCS | 96 UOC
Information Technology

COMPDS | 96 UOC

Database Systems

COMPES | 96 UOC

e-Commerce Systems

COMPIS | 96 UOC

Internetworking

COMPSS | 96 UOC

Data Science and Engineering

Enrolment Disclaimer

Unless advised otherwise by your program authority, you should follow the rules for the handbook for the year you commenced your program. You are also responsible for ensuring you enrol in courses according to your program requirements. myUNSW enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements.

Admission Requirements

Entry Requirements

Enrolment in this program requires one of the following:

- a three year undergraduate degree equivalent to a standard Australian bachelor degree in a discipline containing mathematics up to year two level, and a minimum 70% average..
- completion of the 5543 UNSW Graduate Diploma in Information Technology, and a minimum 65% average or no fails.
- completion of the 7543 UNSW Graduate Certificate in Computing, and a minimum 70% average.

Note

A discipline containing "mathematics up to year two level" would mean that applicants need to have an appropriate background in several of the following areas:

- Discrete Maths
- Linear Algebra
- Engineering Maths
- Calculus
- Statistics
- Probability
- Actuarial Maths
- Numerical Methods
- Vector Algebra

For more information about admission requirements for various UNSW programs, visit the following website(s):

[Domestic Students](#)

[International Student](#)

Program Requirements

Recognition of Prior Learning

Advanced standing is possible in up to 50% of the program.

Students can seek advanced standing in the following courses only:

COMP9020 Foundations of Comp. Science (6 UOC)

COMP9021 Principles of Programming (6 UOC)

COMP9024 Data Structures & Algorithms (6 UOC)

COMP9032 Microprocessors & Interfacing (6 UOC)

COMP9311 Database Systems (6 UOC)

COMP9331 Computer Networks&Applications (6 UOC)

COMP9414 Artificial Intelligence (6 UOC)

GSOE9820 Project Management (6 UOC)

Students wishing to apply for Advanced standing should consult the CSE Postgraduate Advanced Standing, Exemption, Substitution website (<https://www.engineering.unsw.edu.au/computer-science-engineering/courses-programs/enrolment-information/postgraduate-coursework/advanced-standing-exemption>)

Progression Requirements

Progression rules are in accordance with university policy.

For more information on university policy on progression requirements please visit [Academic Progression](#).

Pathways

Post Graduate

Doctor of Philosophy - **PhD** **1650 Computer Science and Eng**

Faculty: Faculty of Engineering

Campus: Kensington

Units of Credit: 144

Typical Duration: 3 to 4 Years

[Read More](#)

Articulation Arrangements

Other program(s) within articulated suite:

Graduate Diploma - **GradDip** **5543 Information Technology**

Faculty: Faculty of Engineering

Campus: Kensington

Units of Credit: 72

Typical Duration: 1.7 Years

[Read More](#)

Graduate Certificate - **GradCert** **7543 Computing**

Faculty: Faculty of Engineering

Campus: Kensington

Units of Credit: 24

Typical Duration: 0.7 Years

[Read More](#)

Professional Outcomes

Accreditations

Professional institutes that offer accreditation on completion of this program:

- Australian Computer Society

The program is accredited by the Australian Computer Society, (May 2016).
Graduates may apply for individual accreditation assessment.

Recognition of Achievement

Award with Excellence

The Award with Excellence is awarded in coursework masters programs, including Masters (Extension) but with the exception of Masters (Extended) such as JD and MD, when a Weighted Average Mean (WAM) of at least 80% has been achieved and at least 50% of the requirements of the award are completed at UNSW. All eligible programs will award 'with Excellence' except in special circumstances where approval of Academic Board has been given for a program to opt out.

For more information, please visit:

[Current Students Award with Excellence](#)

Program Fees

At UNSW fees are generally charged at course level and therefore dependent upon individual enrolment and other factors such as student's residency status. For generic information on fees and additional expenses of UNSW programs, click on one of the following:

[Domestic Students](#)

[Commonwealth Supported Students](#)

[International Students](#)

Additional Expenses

It is best if students own a laptop or a PC that gives them more flexibility to work on assignments. Still students could complete all their work in the CSE computer labs.

Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

[Pre-2019 Handbook Editions](#)

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Authorised by Deputy Vice-Chancellor (Academic)

CRICOS Provider Code 00098G

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