

# Master of Applied Information Technology program

Faculty of Information Technology

The Master of Applied Information Technology (MAIT) is an effective means of opening up new career possibilities in IT fields ranging from applications programming through to systems analysis.

This 16-unit course provides students with the knowledge, understanding and skills to deal effectively with advanced issues involving the application of information technology. It prepares students for work in the information technology industry at the highest levels. The program includes core units in programming, computer technology, database technology and systems analysis and design, as well as electives selected from a range of specialisations: Data management, Digital communication, Distributed and mobile systems, Intelligent Systems, Internet and web application development, Multimedia systems, Network Computing, Security, and Software engineering.

In addition, students undertake an applied IT case study. This project covers all phases of the design, building and implementation of an IT application.

## Entry requirements

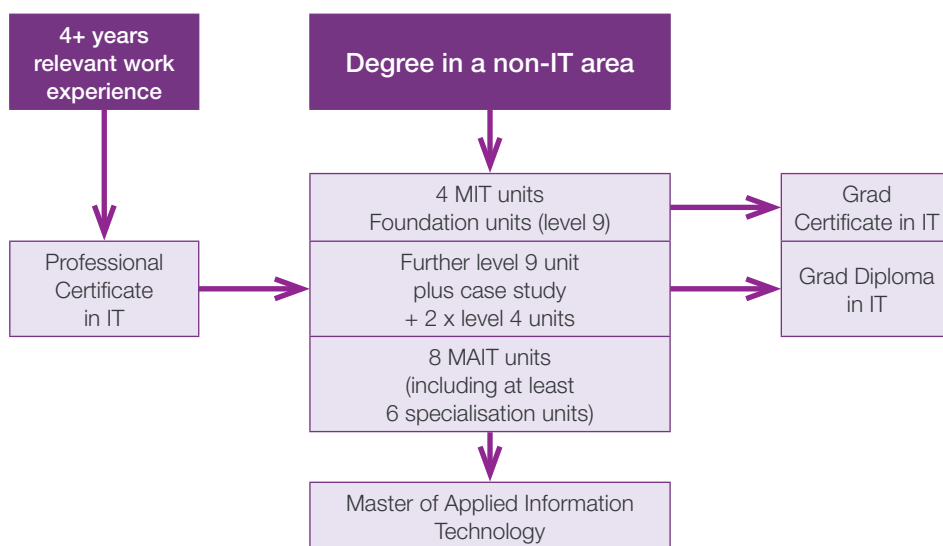
Entry into the MAIT program requires a completed qualification equivalent to an Australian bachelors degree, but not necessarily in an IT-related discipline.

Domestic candidates without formal tertiary qualifications can apply to enter via a pathway from the faculty's Professional Certificate in Information Technology or Executive Certificate in Information Technology, which are intended to lead to a graduate or postgraduate diploma. Upon successful completion of a subsequent relevant graduate diploma (with course coordinator advice), students may be eligible to articulate into the Master of Applied Information Technology.

## Professional recognition

Graduates of the Master of Applied Information Technology program will meet the knowledge requirements for admission to the professional level of membership of the Australian Computer Society (ACS).

Drive your IT career forward!



## The Master of Applied Information Technology

The MAIT course, offered at Monash's Caulfield campus, provides formal postgraduate credentials to advance your IT career across any industry. The Graduate Diploma in IT and the Graduate Certificate in IT are entry and exit qualifications in this degree.

### Master of Applied Information Technology (MIT)

Course code: 3309. CRICOS code: 037792B  
Length: 2 years full-time or 4 years part-time

### Graduate Diploma in Information Technology

Course code: 0366. CRICOS code: 063358D  
Length: 1 year full-time or 2 years part-time

### Graduate Certificate in Information Technology

Course code: 0539. CRICOS code: 063360K  
Length: 6 months full-time or 1 year part-time

## Course structure

The MAIT requires the successful completion of 48 points (8 units) from the MAIT foundation units, including a case study; at least 6, level-5 elective units (36 points) from the list of MAIT specialisations; and up to two elective units (12 points), approved by the course coordinator.

Students can choose units from all specialisations listed below to meet the course requirements. Nine specialisations are offered within the degrees, although not all specialisations may be offered in any one year. Specialisations are optional and students' MAIT transcripts will indicate the specialisation(s) if they have completed the relevant units. All units are 6 points.

### Foundation MAIT units (compulsory)\*

- FIT9017 Foundations of programming
- FIT9018 Computer technology and operating systems
- FIT9019 Database technology
- FIT9030 Systems analysis and design

\* required for completion of GradCertIT

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## Further Foundation MAIT units (compulsory)\*\*

- FIT9020 Data communications
- FIT4037 Case study

Further Foundation MAIT units (select at least two)\*\*

- FIT4033 Object oriented application programming in C++
- FIT4038 Database management and implementation
- FIT4039 Handheld applications and operating systems
- FIT4041 Web development
- MAT4003 Quantitative analysis

\*\* required for completion of GradDipIT

## Data Management specialisation

- FIT5043 Distributed database
- FIT5168# Object and semi-structured database
- FIT5166# Information retrieval systems
- FIT5059## Advanced programming for database applications

## Digital Communication specialisation#

- FIT5162# Digital communications software
- FIT5012# Data compression techniques
- FIT5173# Digital communications technology and protocols
- ECE5012# Applied digital signal processing

## Distributed and Mobile Systems specialisation

- FIT5046 Mobile and distributed computing systems
- FIT5170 Programming for distributed, parallel and mobile systems
- FIT5164 GRID computing
- FIT5031 Mobile software agents

## Intelligent Systems specialisation

- FIT5047 Intelligent systems
- FIT5169 Probabilistic expert systems
- FIT5045## Knowledge discovery and data mining
- FIT5167 Natural computation for intelligent systems

## Internet and Web Application Development specialisation

- FIT5030 Web services and service oriented computing
- FIT5042## Enterprise application development for the web
- FIT5032 Internet applications development
- FIT5041 Component technology for internet applications

## Multimedia Systems specialisation#

- FIT5165# Human-computer interaction for multimedia applications
- FIT5084# Multimedia authoring and animation
- FIT5015# Advanced programming for multimedia entertainment
- FIT5012# Data compression techniques

## Network Computing specialisation

- FIT5034 Network administration and management
- FIT5010 Advanced internet protocols and applications
- FIT5011 Advanced network design and performance
- FIT5083## Wireless networks

## Security specialisation

- FIT5163 Information and computer security
- FIT5044 Network security

(and any two from the following)

- FIT5003 Software security
- FIT5037 Advanced network security
- FIT5027 Virtual private network
- FIT5172 Computer forensics
- FIT5110 Information system security

## Software Engineering specialisation

- FIT5171 System validation and verification, quality and standards
- FIT5030 Web services and service oriented computing
- FIT5174 Parallel and distributed systems
- FIT5164 GRID computing

# Not available in 2009

## Units offered on-campus and by off-campus learning (OCL) mode.

Please visit [www.infotech.monash.edu.au/courses/postgraduate](http://www.infotech.monash.edu.au/courses/postgraduate) for current unit information and approved course variations.

## Applications

Application forms are available from the inquiry centre on telephone +61 3 9902 6011 or from the Faculty Admissions website: [www.infotech.monash.edu/apply/](http://www.infotech.monash.edu/apply/)

## Domestic students

Applications from domestic students for all on-campus postgraduate courses should be made directly to the Faculty of Information Technology Admissions office at the Caulfield campus.

## International students

International students wishing to apply for full-fee-paying places should apply through the University's International Admissions department or via a registered Monash agent:

## International Recruitment Services

Monash University  
Phone: +61 3 9627 4852 Fax: +61 3 9903 4778

Email: [study@monash.edu](mailto:study@monash.edu)

Web: [www.monash.edu.au/study/international/](http://www.monash.edu.au/study/international/)

International students must meet English proficiency requirements outlined on the International website above.

## Further Information

### Caulfield School of Information Technology

Monash University, Caulfield campus  
PO Box 197, Caulfield East, Victoria 3145

Phone: +61 3 9903 2535 Fax: +61 3 9903 1077

Email: [frontdesk@infotech.monash.edu.au](mailto:frontdesk@infotech.monash.edu.au)  
IT Admissions: [admissions@infotech.monash.edu.au](mailto:admissions@infotech.monash.edu.au)

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