

UTS: IT

New Postgraduate Courses

As a leading IT Faculty in Australia, the Faculty of Information Technology at UTS prides itself on its offerings of practical, up-to-date courses that meet the demands of today's IT industry. As part of our commitment to excellence and industry, we regularly review our courses to ensure they meet the needs of our students and their future employers. As a result of our recent review of courses, from 2008, apart from the Internetworking and Multimedia programs, the Faculty will merge a number of specialised postgraduate programs into two main programs: the Master of Information Technology and Master of Information Technology (Extended).

Why Choose the New MIT at UTS?

The **Master of Information Technology (Extended)** will enable students to acquire current and advanced IT professional skills in a range of specialised areas in two years. The **Master of Information Technology** program will allow students with a Computing/IT Bachelor's degree to complete the course in one year through advanced standing. Students with Non-IT backgrounds will acquire comprehensive IT knowledge and skills for a professional career in IT. Both courses have received full Professional Level accreditation from the Australian Computer Society.

- **Flexible subject choices.** Our new MIT includes a choice of subject streams, allowing you to focus your degree in areas that interest you the most. However, students are not required to study just a single stream – you can combine subjects from different streams to develop specialised skills in various areas and tailor the course to suit your needs.
- **Flexible study durations.** The MIT may be completed in 1.5 years. Students with a recognised Bachelor degree in Computing/IT (or related fields) can choose to receive one semester of advanced standing which will allow you to complete a fast tracked MIT course in just one year. The Master of IT (Extended) program, however, with a duration of 2 years will enable you to develop advanced IT skills in more specialised areas.
- **Learn practical skills in demand.** At UTS:IT, we pride ourselves on the practical, industry-focused nature of our courses. In our MIT program, you will learn not only theories and concepts, but how to apply that knowledge in a business context. Many of our staff are currently working in the IT industry, who bring their extensive industry knowledge into the classroom. You will also have 24 hour access to our centrally located beautiful building, and excellent modern computer labs running the latest software you'll need for your studies.
- **Outstanding location and excellent facilities.** We are located in the heart of Sydney, so you can enjoy all the convenience. You will have 24 hour access to our beautiful building and excellent modern computer labs running the latest software you'll need for your studies.
- **A special program for Non-IT graduates.** Students with Bachelors degree in non-Computing/IT areas can still enrol in our new MIT program. By completing a special stream of IT subjects, you will be prepared to undertake further IT study and choose from our wide range of postgraduate electives.
- **Work experience option.** "Work Experience Project" is an elective we offer which

will give you the opportunity to work on real life projects and develop professional work experience in Australia. This is an excellent opportunity particularly valued by our international students. The project is completed while concurrently enrolled in other subjects at UTS.

- **Research preparation.** Our new MIT program also offers you the option of undertaking a research project in the final year that will prepare you for a career in IT Research and Development, or prepare you to pursue further research at a higher level (e.g. PhD).

With all these benefits, our revised MIT programs offer the best comprehensive postgraduate IT education available in Australia.

What Streams Can You Choose?

The new Master of Information Technology program offers the following streams. They reflect the knowledge and skills in demand in today's IT industry, and allow you to specialise in areas of IT that suit your interests. The flexibility offered by our MIT program means that you are not restricted to just one stream – we encourage you to combine subjects from different streams to develop broader skills for your future career.

Business Intelligence Technologies

Business Intelligence encompasses the processes, tools, and technologies required to transform enterprise data into information, and information into knowledge to enhance business decision-making and to create plans and strategies that drive effective business activity. This stream provides a foundation for understanding how to apply business intelligence techniques to extract information on market trends and behaviour, how to effectively analyse and utilise data, and how to create business intelligence systems to support decision making.

Enterprise Software Engineering

The Enterprise Software Engineering stream will give you the knowledge and skills required to face the software engineering challenges typical of modern organisations. These challenges include: integrating COTS systems with legacy applications, managing and deploying outsourced development or maintenance, integrating the software systems of merged companies, deploying and managing web based (B2B and B2C) systems, as well as managing the challenges of identity and access management in publicly exposed systems.

Network Applications

Internet-based applications form a major part of today's IT infrastructure. This stream will give you the knowledge and skills to develop enterprise-scale web applications involving technologies such as Web Services and J2EE. Some of the challenges involved in developing such applications include interaction design, transaction and security management, and integration with legacy systems. The subjects in this stream give you skills to address these challenges and develop web-based applications to meet current and future industry demand.

Network Services

Networking is a rapidly growing industry. As a CISCO Regional Academy, UTS is a leading provider of networking programs in Australia. This stream allows you to learn more about network management, network security and some contemporary issues in the field of networking. The subjects in this stream are a subset of what is available in our Internetworking program, designed for people who wish to combine networking with another area of IT. For those interested in specialising in networking, we recommend the Master of Science in Internetworking course.

Information Systems Services

This stream focuses on the use of advanced information systems services as part of a

business' overall IS strategy. An effective information system architecture is essential for businesses competing in today's global marketplace. This stream covers the design of IS architectures, as well as other essential IS services like business process integration, systems quality management and the use of business intelligence as part of an overall IS strategy.

Information Systems Management

This stream is designed for those who want to take their career to the next level and be able to manage an organisation's information systems and IT operations. There is strong industry demand for professionals who can combine their technical skills with knowledge of business operations and management processes in an IT context. This stream will prepare you for managing IT projects, managing IT staff, managing IT contracts and outsourcing, and generally taking a strategic view of all aspects of an organisation's information systems.

Computer Graphics and Gaming

UTS is a world leader in the field of computer graphics and animation, with many of our computer graphics graduates going on to win internationally recognised awards for their animation work. As an example of one of our graduates many achievements, UTS:IT graduates were part of a team that received an Oscar for animation in the movie *Happy Feet*. With this stream, you can learn the basic skills needed to create animated movie effects and computer games, as well as the design and production topics you need to take your career down this exciting path. For those interested in specialising purely in computer animation, UTS also offers a Masters in Animation which includes some of the IT subjects in this stream.

Elective Choices

The revised Master of Information Technology program also offers students a wide range of electives, including a series of "Recent Advances" subjects, offering you an insight into the latest developments in the field of IT. Students can also choose elective subjects in the areas of interactive multimedia, data mining and internetworking.

What Are the Course Options?

C04218 Master of Information Technology (Extended)
 C04157 Master of Information Technology
 C06058 Graduate Diploma in Information Technology

Course	Applicants with IT Background	Applicants with Non-IT Background
C04218 Master of IT (Extended)	3 or 4 semesters (1.5 years or 2 years)	4 semesters (2 years)
C04157 Master of IT	2 or 3 semesters (1 year or 1.5 years)	3 semesters (1.5 years)
C06058 Graduate Diploma in IT	1 or 2 semesters (6 months or 1 year)	2 semesters (1 year)

Applicants should clearly indicate their intended duration of the course on the front page of the application form, after the course name. eg. C04218 Master of IT (Extended) 2 years, or C04157 Master of IT 1.5 years.

Subject Choices

Choice Block A: Streams

The subjects offered in the new Master of Information Technology are organised into coherent groups, allowing students to specialise in one of the areas listed. However, the program is flexible enough to allow students to design their own combinations of subjects to meet their career needs. Choice Block A shows the different specialisations available.

Network Application	Network Services
32509 Interaction Design Interaction Design	32114 Advanced Data Communications
32516 Internet Programming	32209 Advanced Topics in Networking
32525 Web Services Technologies and Applications	32521 WANs and VLANs
32549 Advanced Internet Programming	32548 Network Security
Business Intelligence Technologies	Enterprise Software Engineering
32113 Advanced Database	32148 Enterprise Computing
32130 Principles and Practice of Data Mining	32569 Enterprise Business Requirements
32567 Business Intelligence for Decision Support	32570 Enterprise Software Architecture
32568 Business Intelligence Modelling and Analysis	32571 Enterprise Software Testing
Information Systems Services	Information Systems Management
32558 Business Intelligence	32208 IS Strategy
32559 Process Integration	32541 Project Management
32560 IS Architecture	32990 IT Contracts and Outsourcing
32603 Systems Quality Management	32996 IT People Management
Computer Graphics and Gaming	Data Mining
32003 Computer Game Design	32513 Advanced Data Mining Algorithms
32004 Game Programming	32530 Building Intelligent Agents
32501 Computer Graphics	
32543 Advanced 3D Computer Animation	
32544 Advanced Image Synthesis Techniques	Multimedia
	95563 Digital Media Development Process
Internetworking	95564 Digital Media Technologies
32001 Mobile Commerce Technologies	95565 Digital Graphics and the Still Image
32528 Network Management	95566 Digital Information and Interaction Design
32547 UNIX Systems Programming	95567 Digital Media in Social Context
32998 Visual Basic .NET Applications Development	95568 Digital Sound and the Moving Image
Electives	
32025 Recent Advances in Information Technology	32039 Recent Advances in Software Engineering

32901 Recent Advances in Computer Systems	32902 Recent Advances in Information Systems
32120 Introduction to e-Business Technology	32510 Principles of Object-oriented Programming in C++
32531 Global Information Systems	

Choice Block B: Research Projects

Students in the new Master of IT program can also choose to undertake a research project. This is designed for those who intend to pursue a research degree (PhD or Masters by Thesis), but is open to any student who wishes to participate in the Faculty's extensive research program.

- 32933 Research Project (6cp)
32934 Research Project (12cp)

Subject Details:

Full details of these subjects and all the courses offered by the Faculty of Information Technology at UTS may be found at www.it.uts.edu.au

Course Structures

IT Background Students	Non-IT Background Students
C06058 Graduate Diploma in IT	C06058 Graduate Diploma in IT
32144 IT Research Preparation	32144 IT Research Preparation
32524 LANs and Routing *	32524 LANs and Routing
32555 Business Applications Development *	32555 Business Applications Development
32557 Enabling Enterprise Information Systems *	32557 Enabling Enterprise Information Systems
32606 Database *	32606 Database
elective (<i>from Choice Block A</i>)	elective (<i>from Choice Block A</i>)
elective (<i>from Choice Block A</i>)	elective (<i>from Choice Block A</i>)
elective (<i>from Choice Block A</i>)	elective (<i>from Choice Block A</i>)

* GDIT students with an IT degree *or* a minimum of two years professional experience in IT may optionally apply for up to 24 credit points Recognition of Prior Learning of the subjects marked *, thereby reducing the course duration.

C04157 Master of Information Technology	C04218 Master of IT (Extended)
32144 IT Research Preparation	32144 IT Research Preparation
32524 LANs and Routing *	32524 LANs and Routing *
32555 Business Applications Development *	32555 Business Applications Development *
32557 Enabling Enterprise Information Systems *	32557 Enabling Enterprise Information Systems *
32606 Database *	32606 Database *
elective (<i>from Choice Block A</i>)	elective (<i>from Choice Block A</i>)
elective (<i>from Choice Block A</i>)	elective (<i>from Choice Block A</i>)
elective (<i>from Choice Block A</i>)	elective (<i>from Choice Block A</i>)
32931 Information Technology Research Methods	32931 Information Technology Research Methods
elective (<i>from Choice Block A and B</i>)	elective (<i>from Choice Block A and B</i>)
elective (<i>from Choice Block A and B</i>)	elective (<i>from Choice Block A and B</i>)
elective (<i>from Choice Block A and B</i>)	elective (<i>from Choice Block A and B</i>)
	4 additional electives (<i>from Choice Block A and B</i>)

All subjects are 6 credit points each. Students normally undertake 4 subjects per

semester. * Master of IT or Master of IT(Extended) students with an IT or related degree or a minimum of two years professional experience in IT may optionally apply for up to 24 credit points Recognition Prior Learning of the subjects marked *, thereby reducing the course duration by up to one semester.

Entry requirements

Applicants require a recognised Bachelors degree with a competitive pass. In addition to meeting the academic requirements, students whose prior education was not taught in English are required to meet one of the following minimum English language requirements:

- An IELTS score of 6.5 overall with a 6.0 in writing; or
- A TOEFL (paper-based) score of 575 with TWE 4.5; or A TOEFL (computer-based) score of 231 with essay rating 4.5; or
- A TOEFL (internet-based) score of 90 with a writing score of 21; or
- Successful completion of the Insearch UTS Direct Entry English Program (DEEP) at Level C.

Fees

The 2008 fee for our MIT courses is 10,850 AUD per semester. For details of tuition fees, please visit <http://www.uts.edu.au/international/prospective/studying/fees/>

Further Information

Further information may be obtained by contacting UTS: International. Telephone +61 2 9514 1531 or Facsimile +61 2 9514 1530

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Please refer to the UTS International Postgraduate Prospectus for information about UTS and life in Sydney, or visit

www.uts.edu.au/international