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FACULTY SNAPSHOT*
8231 students
2096 postgraduate coursework students
534 higher degree research students

UTS AT A GLANCE
39,074 students
10,896 postgraduate coursework students
1583 higher degree research students
3088 staff

UTS STUDENT DIVERSITY
38% are 25 or older
52% were born outside of Australia
150+ languages other than English are spoken by the UTS student body

* As at September 2014

CONTACT US
Local students
Tel: 1300 ASK UTS (1300 275 887)
Online inquiry: ask.uts.edu.au
Email: FEITOutreach@uts.edu.au

International students
Tel: 1800 774 816 (free call within Australia)
Tel: +61 3 9627 4816 (for international calls)
Web: www.international.uts.edu.au
Email: international@uts.edu.au

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UTSInternationalstudents
UTSINT
WHY INFORMATION TECHNOLOGY AT UTS?

Whether you are working in IT and want to develop specialised skills or you come from another field and want to move into IT, we offer a wide range of postgraduate IT courses to meet your career development needs.

Practice-oriented and career-relevant
Taught by lecturers and industry professionals who are leaders in their fields, our courses help you to succeed in an industry which is subject to increasingly rapid technological change. We challenge you to build your IT skills in a business context, developing an understanding of how technology fits into an organisation and how the development of IT solutions contributes to the success of a business.

International collaboration
UTS integrates intercultural and international perspectives into every facet of university life. We have a strong network of strategic partnerships around the world resulting in exciting industry and research collaborations. These partnerships provide our students and staff with international experiences and strengthen our intercultural capabilities.

Industry-Connected
We have strong links with industry and our courses are recognised for being practice-based and industry relevant. We regularly bring industry practitioners into the classroom to share their knowledge and skills, and many of our academics and tutors are active IT professionals.

CISCO Systems partnership
We have shared a successful partnership with Cisco Systems for over 15 years, and are a Cisco Networking Academy. We prepare our internetworking students for CCNA (Cisco Certified Network Associate) and CCNP (Cisco Certified Network Professional) industry certification within the UTS/Cisco Networking Academy Program.

Enjoy outstanding facilities
Most of your subjects will be taught in the Engineering and IT Building. It’s purpose-built for Engineering and IT students and researchers, and features technology-enabled teaching spaces and laboratories designed with the future in mind.
Benefit from our central location
The UTS City campus is centrally located near Central Station, Sydney’s bus and train transport hub. There are a number of parking stations close by that offer discounted student parking rates. The campus is also located in the creative industries ‘inner city triangle’ along with almost 40% of Australia’s creative industry head offices.

Strike a work-life balance
Benefit from classes scheduled to minimise disruption to your professional commitments. Local students can study all courses in part-time or full-time mode, and adjust the number of subjects taken per semester. Most classes are held in the evening, and delivery options vary by subject, with some offering the chance to study via distance*, block mode or weekly attendance. It is a student visa requirement that all international students study full-time only.

Articulated programs to fit your needs
The majority of our courses are articulated, meaning you can begin with a 24 credit points (4 subjects) graduate certificate and apply to have your subjects credited towards an appropriate master’s degree. If you successfully complete the first 24 credit points of the master’s and choose not to continue on with your studies, you may still graduate with a graduate certificate†.

Professional recognition
Graduates of our IT courses are eligible for professional-level or associate-level membership of the Australian Computer Society. See online course information for details.

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* International students cannot study more than 25% of the total enrolment load by distance/online learning.
† International students may have visa restrictions that prevent course articulation.
LEARNING. FUTURES

UTS is a recognised leader in teaching and learning. We pride ourselves on having skilled lecturers who are passionate about their areas of expertise and are informed of the latest developments and knowledge in their field.

We are committed to remaining up-to-date with new teaching methods. Learning.Futures is a UTS initiative which is revolutionising the way students learn at university. Students are more connected to technology than ever before, and the UTS learning model encourages you to use technology to build upon concepts that are discussed and worked on collaboratively in the classroom.
WORLD-CLASS FACILITIES

The Engineering and IT Building was built with UTS Learning Futures in mind. Classrooms have digital screens and purpose-built features for group work and practice-based learning. Collaborative theatres for 200 students facilitate multiple forms of engagement including lecture presentations, collaborative and technology-enabled activities.

UTS DATA ARENA

This 3D data visualisation arena aids researchers to visually present and interact with complex data sets and 3D spatial modules. It utilises projectors and simulates weather conditions such as wind and lightning to provide the experience of being immersed in a huge 3D virtual reality environment.
SOFTWARE DEVELOPMENT STUDIO

World-class facilities are a rich environment for you to become professionally competent via an industry collaborative software development experience throughout your degree.

In-built research sensors

The building is itself a living, breathing laboratory, embedded with wireless sensors to monitor temperature, air quality, noise and dust particles.

Image by Anna Zhu
Laboratories

The building contains civil, electrical, information and communication technology, and mechanical laboratories, where students gain hands-on, practical experience. You will have access to specialised computer labs, including UTS Remote Laboratory, which enables students to conduct experiments with actual apparatus and equipment at any time of the day from anywhere in the world.

FEIT Learning Precinct

Between classes, you can study or conduct group work in the FEIT Learning Precinct. This student space is where you can access expert support, as well as reference materials and software.

UTS Library

The UTS Library has expanded to include an underground storage system that uses robotic cranes for the retrieval of less-demanded books, making borrowing faster and simpler. This library upgrade is part of the larger UTS City Campus Master Plan, a $1 billion investment to re-develop UTS.

Laboratories

The UTS Library has expanded to include an underground storage system that uses robotic cranes for the retrieval of less-demanded books, making borrowing faster and simpler. This library upgrade is part of the larger UTS City Campus Master Plan, a $1 billion investment to re-develop UTS.

The China Library, gifted from the Chinese Government, recently opened on level 4 of the UTS Library. This information centre is filled with books, audio-visual materials, multimedia displays as well as reading and study areas.

Images by Anna Zhu

Images by Dematic
INFORMATION TECHNOLOGY PROGRAM

Course Coordinator - Alan Sixsmith

Whether you are an IT professional or wanting to enter the ICT industry, this program enables you to tailor your course to meet your career development needs. There are different entry points depending on your level of experience and educational background.

This freshly re-structured course offers an extensive look into the business context and the technical developments that are shaping contemporary ICT and will equip you to meet the challenges of working in the fast-evolving IT industry. Now with a wide choice of majors and electives to choose from, you can focus on the area/s most relevant to you. You will also have the opportunity to work on a project with either a research or industry focus.

As it is essential to keep IT knowledge and skills up-to-date, we have developed a practical and industry-focused approach to teaching and learning, meaning you pick up the theory and concepts as well as the practical skills in IT to help build or transform your business or career.

MASTER OF INFORMATION TECHNOLOGY

The UTS Master of Information Technology (MIT) program can give you a comprehensive understanding of IT in specialised technical or management areas. The wide range of specialisations allows you to tailor the course to satisfy your career development needs.

This course will provide you with an enhanced understanding of the business context and technical developments shaping ICT and will equip you to meet the challenges of working in the IT industry. You will also have the opportunity to work on a project with either a research or industry focus.

If you don’t have a background in IT, you will need to start off in the Graduate Certificate in Information Technology Studies (see page 12) and progress to the master’s program on completion (provided you meet the academic requirements).

MINIMUM ENTRY REQUIREMENTS

A recognised Australian bachelor’s degree or equivalent assessed on academic merit. This program has entry points for those who have a minimum qualification equivalent to an Australian bachelor’s degree.

Course Code: C04295
CRICOS code: 084256C
Course duration:
Local: 2 years (full-time); 4 years (part-time)
International: 2 years (full-time)
Credit recognition: Applicants with a recognised bachelor’s degree in IT may apply for up to 4 subjects (core subjects only) of credit recognition.
Study load: 96 credit points (16 subjects)
Intake: Autumn (March) / Spring (July)
Professional recognition: Graduates qualify for professional-level membership of the Australian Computer Society.
How to apply: See page 26
English language requirements: See page 27
Study mode: This course is delivered in standard mode which involves weekly attendance, with a majority of classes offered in the evening.
Majors

Business Information Systems
Learn the processes, tools and technologies required to transform data into information and information into knowledge so as to enable sound business decision-making. Learn how to apply business intelligence techniques to extract information on market trends and behaviour, effectively analyse and utilise data, and create business intelligence systems to support decision-making.

Internetworking
Gain the necessary knowledge and skills in network design and management, helping you to tackle networking issues that come with an ever-more connected world. Learn about network and systems security, and develop enterprise-scale web applications involving technologies such as .NET, Web Services and Java 2 Enterprise Edition (J2EE).

UTS: IT is a Cisco Networking Academy. For further information see uts.ac/Internetworking

Data Analytics
Learn to develop and apply business analytics systems and enhance the technology services within your organisation. Data analytics is an emerging and rapidly-expanding area where mathematics and statistical methods interact with powerful information technologies to improve the flow of massive amounts of data for business.

Software Development
Discover how to solve typical software development challenges for a business such as: integrating commercial off-the-shelf systems with legacy applications; managing and deploying outsourced development or maintenance; integrating software systems when companies merge; deploying and managing web-based systems such as business to business (B2B) and business to consumer (B2C), and managing the challenges of identity and access in publicly exposed systems.

In addition to advanced software development topics, you can choose a number of subjects in various programming languages to enhance your technical skills in your work as a developer, programmer or software engineer.

Interactive Media
Learn to better respond to and manage the fast-evolving needs of the industry. Learn more about the software and hardware technologies utilised in the development and maintenance of websites, create strategies for web-presence and develop detailed proposals and specifications. Engage with interdisciplinary approaches to information and interaction design and immerse yourself in a blend of design, media and technology.

Choice (no specified major)
If you would like to choose subjects from a variety of areas within IT, then this major may suit you. Subjects include 4G Mobile Technologies, Digital Media Technologies, Data Mining and Visualisation and many more. Visit handbook.uts.edu.au/it for details.

COURSE STRUCTURE

<table>
<thead>
<tr>
<th></th>
<th>MASTER OF INFORMATION TECHNOLOGY</th>
<th>MASTER OF INFORMATION TECHNOLOGY (EXTENSION)</th>
<th>GRADUATE CERTIFICATE IN INFORMATION TECHNOLOGY</th>
<th>GRADUATE CERTIFICATE IN INFORMATION TECHNOLOGY STUDIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional IT Stream</td>
<td>Complete the following subjects:</td>
<td>Complete the following subjects:</td>
<td>Complete the following subjects:</td>
<td>Complete the following subjects:</td>
</tr>
<tr>
<td>Enabling Enterprise Information Systems</td>
<td>●</td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Fundamentals of Software Development</td>
<td>●</td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Database</td>
<td>●</td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>LANS and Routing</td>
<td>●</td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Core Stream</td>
<td>Complete the following subjects:</td>
<td>Complete the following subjects:</td>
<td>Complete 1 of the following subjects:</td>
<td></td>
</tr>
<tr>
<td>Technology Research Preparation</td>
<td>●</td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Project Management</td>
<td>●</td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>IT Professional and Society</td>
<td>●</td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Major</td>
<td>Complete 36 credit points in total</td>
<td>Complete 36 credit points in total</td>
<td>Complete 18 credit points in total</td>
<td></td>
</tr>
<tr>
<td>IT Project and Electives*</td>
<td>Complete 18 credit points in total</td>
<td>Complete 18 credit points in total</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Sub-major choice</td>
<td>n/a</td>
<td>Choose 24 credit points from your chosen sub-major</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

*See the Handbook www.handbook.uts.edu.au/it

Please note: Elective subjects are taken from postgraduate level faculty subjects and may need prior approval. You may also need pre-requisite knowledge for some electives.
MINIMUM ENTRY REQUIREMENTS

You can start off in the Master of Information Technology (Extension) or progress into the course after having completed at least one semester of the Master of Information Technology. You can also sample the course by completing the Graduate Certificate in Information Technology and should you decide to progress to the master’s, the subjects you have already completed will be credited in full (provided you meet the academic requirements and transfer into the master internally)*.

Applicants should at a minimum hold a recognised degree in IT/Computer Science.

SUB MAJORS (SEE MAJORS ON PAGE 9 FOR FURTHER INFORMATION):

> Business Information Systems
> Internetworking
> Data Analytics
> Interactive Media
> Software Development
> The Academic English Program (for students who are interested in improving their academic English skills)
> Choice (no specified major)

COURSE STRUCTURE

See page 9.

* International students may have visa restrictions that prevent course articulation.
MASTER OF INFORMATION TECHNOLOGY (ADVANCED)

If you are an IT professional, this course provides an opportunity to explore in depth a specialised area of computing/IT by undertaking a substantial research study. As part of this course you will complete three core subjects, five subjects as part of your major and a research project (over a period of 1 year) or a combination of electives and a research project.

This course may also improve your chances of being considered for higher degree research programs such as a PhD.

Course Code: C04297
CRICOS code: 084255D
Course duration:
Local: 2 years (full-time); 4 years (part-time)
International: 2 years (full-time)
Credit recognition: Applicants with a recognised bachelor’s degree in IT may apply for up to 4 subjects (core subjects only) of credit recognition.
Study load: 96 credit points (16 subjects)
Intake: Autumn (March) / Spring (July)
Professional recognition: UTS will be seeking accreditation of the new Master of Information Technology (Advanced) from the Australian Computer Society.
How to apply: See page 26
English language requirements: See page 27
Study mode: This course is delivered in standard mode which involves weekly attendance, with some classes offered in the evening.

MINIMUM ENTRY REQUIREMENTS

Entry to this course depends on acceptance by a research supervisor. You can apply to transfer from either the Master of Information Technology or Master of Information Technology (Extension) but you can’t directly enter into this course.
GRADUATE CERTIFICATE IN INFORMATION TECHNOLOGY

This course provides a postgraduate level introduction to those with a background in IT. You will complete four subjects comprising a core subject in addition to three subjects from an IT area of your choice (see Majors on page 9). Upon completion of the Graduate Certificate, you can apply for entry into the Master of Information Technology or the Master of Information Technology (Extension) where you will receive credit recognition for the subjects completed in this course (provided you meet the academic requirements and you internally transfer into the master’s).

Course Code: C11142
CRICOS code: 084251G
Course duration:
Local: 0.5 year (full-time); 1 year (part-time)
International: 0.5 year (full-time)
Study load: 24 credit points (4 subjects)
Intake: Autumn (March) / Spring (July)
How to apply: See page 26
English language requirements: See page 27
Study mode: This course is delivered in standard mode which involves weekly attendance, with some classes offered in the evening.

MINIMUM ENTRY REQUIREMENTS
Applicants should hold at a minimum, a recognised degree in IT or computer science.

COURSE STRUCTURE
See page 9.

GRADUATE CERTIFICATE IN INFORMATION TECHNOLOGY STUDIES

This course provides a postgraduate level introduction to those who do not have a background in IT. Learn about software development, LAN hardware and physical layer standards, as well as basic computer networking concepts and principles. Also learn how to use information systems to generate business value and the benefits of basic database design and implementation.

You can use this course as a pathway into the IT master’s programs provided you meet the academic requirements.

Course Code: C11247
CRICOS code: 084252G
Course duration:
Local: 0.5 year (full-time); 1 year (part-time)
International: 0.5 year (full-time)
Study load: 24 credit points (4 subjects)
Intake: Autumn (March) / Spring (July)
How to apply: See page 26
English language requirements: See page 27
Study mode: This course is delivered in standard mode which involves weekly attendance, with some classes offered in the evening.

MINIMUM ENTRY REQUIREMENTS
This course provides a postgraduate level introduction to those with a background in IT and no tertiary IT qualification or those who have 2 or more years of IT working experience.

COURSE STRUCTURE
See page 9.
Paul Kennedy
Associate Professor
Paul Kennedy is the Acting Head of School, Software. He has received an Office for Learning and Teaching (OLT) Citation for Outstanding Contributions to Student Learning as well as a UTS Learning and Teaching Award for Strengthening the UTS Model of Learning for “a decade long contribution to data analytics teaching, learning and academic leadership.” His research focuses on the data analytics of biomedical data, primarily childhood cancer.
Read more at www.uts.edu.au/staff/paul-kennedy

Nubia Rodriguez
From Colombia
Master of Information Technology
Security Engineer, Tenable Network Security
“The Master of Information Technology helped me to develop advanced critical thinking and problem-solving skills. It opened my mind to concepts that I hadn’t formally pursued before – such as organisational behaviour, working confidently within a group and motivating and directing others. I strongly believe that my master’s degree has enhanced my career prospects.”
Read more at www.uts.edu.au/nubia-rodriguez
Part of managing IT projects and businesses is having a defined understanding of the strategic value of technology. This is why the IT Management programs at UTS are tailored to help better connect talented people working in IT and transform them into innovative project managers and business leaders.

Course Coordinator -
Ken Dovey

MASTER OF BUSINESS IN IT MANAGEMENT

THESE COURSES ARE NOT OPEN TO INTERNATIONAL STUDENTS

The Master of Business in IT Management (MBITM) and its associated courses form an executive development program aimed at producing business leaders who understand the strategic value of IT. This program develops the business leadership capabilities of IT professionals, with respect to:

- strengthening business knowledge bases and broadening frames of reference
- building self-confidence to engage with other business leaders
- cultivating the capacity to envision the future.

As an IT manager with significant experience, you will be challenged to gain new perspectives on your management behaviours and thinking, enabling you to better meet the needs of your organisation. You will also come to recognise the increasingly important role that technology plays in business success and its potential for disrupting conventional business models and practices.

Enhance your personal and career development through the valuable networking opportunities with both your fellow students and industry lecturers, and develop relationships that last beyond the classroom.

You will be inspired and motivated, leveraging off the considerable experience of likeminded professionals – a vital part of the MBITM learning experience.

Course Code: C04161
Course duration: 3 years (part-time)
Credit recognition: Applicants with a recognised bachelor’s degree in information technology may apply for up to 4 subjects (core subjects only) of credit recognition.
Study load: 72 credit points (12 subjects)
Intake: Autumn (March) / Spring (July)
How to apply: See page 26

English language requirements: See page 27

MINIMUM ENTRY REQUIREMENTS

A recognised bachelor’s degree or equivalent in an appropriate discipline such as information technology or commerce and a minimum of five year’s professional work experience in the IT industry, plus some supervisory experience.
## COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Course</th>
<th>Master of Business in IT Management</th>
<th>Graduate Certificate in IT Management</th>
<th>Graduate Certificate in Strategic IT Leadership</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organisational Design for the Knowledge Era</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Strategic Leadership for Innovation</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Leadership and People Management</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Managing Organisational Change</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strategic Business Management</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Management Research Project</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Technology Strategy</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Management Research Methods</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>Select 4 electives*</td>
<td>Select 1 elective*</td>
<td></td>
</tr>
</tbody>
</table>

*See the Handbook [www.handbook.uts.edu.au/it](http://www.handbook.uts.edu.au/it) for the full list of electives

## STUDENT PROFILE

**Craig Schwarze**  
*Master of Business in Information Technology Management*  
*Applications Development Manager, Touchstar Group*

“I was keen to use university as a means to network with other senior professionals, and the MBITM boasts a strong alumni network and industry focus.

It has already equipped me with key leadership skills and instilled a confidence in my abilities. My only regret is that I didn’t start my course several years ago. I can’t recommend this course highly enough!”

### GRADUATE CERTIFICATE IN IT MANAGEMENT

**This course is not open to international students**

Upon completion of the Graduate Certificate in IT Management, you can apply to the Master of Business in IT Management, where you will receive credit recognition for the subjects completed in this course (provided you meet the academic requirements and you internally transfer into the master’s).

**Course Code:** C11138  
**Course duration:** 1 year (part-time)  
**Study load:** 24 credit points (4 subjects)  
**Intake:** Autumn (March) / Spring (July)  
**How to apply:** See page 26  
**English language requirements:** See page 27

#### Minimum Entry Requirements

Entry requirements for this course are the same as that of the MBITM. If you can’t meet the entry requirements, you can supply evidence of general and professional qualifications such as other post-secondary school qualifications that establishes your aptitude, knowledge and practical work experience.

**Additional Application Requirements:** See page 26.

#### Course Structure

See table on page 15.

### GRADUATE CERTIFICATE IN STRATEGIC IT LEADERSHIP

**This course is not open to international students**

This course will provide you with a broad understanding of strategic leadership, as well as the strategic value of technology within a business. As technology plays an increasingly important role in the success of a business, you will discover the benefits of having an IT strategy and of creatively managing intangible assets such as morale, knowledge and human capital in a global arena.

**Course Code:** C11190  
**Course duration:** 1 year (part-time)  
**Study load:** 24 credit points (4 subjects)  
**Intake:** Autumn (March) / Spring (July)  
**How to apply:** See page 26  
**English language requirements:** See page 27

#### Minimum Entry Requirements

Entry requirements for this course are the same as that of the MBITM. If you can’t meet the entry requirements, you can supply evidence of general and professional qualifications such as other post-secondary school qualifications that establishes your aptitude, knowledge and practical work experience.

**Additional Application Requirements:** See page 26.

#### Course Structure

See table on page 15.
GRADUATE CERTIFICATE IN IT PROJECT MANAGEMENT

THIS COURSE IS NOT OPEN TO INTERNATIONAL STUDENTS

This course will give you the opportunity to undertake advanced professional studies in IT project management. You will gain an understanding of the business context and technical developments shaping contemporary IT project management. You will also develop knowledge and skills in IT project management processes, conceptual and analytical approaches to IT project management, and theoretical and practical competencies in technical and people management.

Graduates of this course are well placed to move into a project management role.

Course Code: C11192
Course duration: 1 year (part-time)
Study load: 24 credit points (4 subjects)
Intake: Autumn (March) / Spring (July)
How to apply: See page 26
English language requirements: See page 27

MINIMUM ENTRY REQUIREMENTS

Applicants should have a minimum qualification equivalent to:

> a recognised bachelor’s degree with a major in computing/IT (or related discipline); and/or
> a recognised bachelor’s degree plus a graduate diploma in computing/IT (or related discipline); and/or
> evidence that your knowledge of computing is equivalent to that described above, if you have insufficient formal qualifications.

COURSE STRUCTURE

You will complete the following subjects:

> Project Management
> Software Quality Management
> Two electives

ACADEMIC PROFILE

Eng Chew

Professor

Eng Chew lectures in the Master of Business in Information Technology Management at UTS. He is a former Chief Information Officer for Sing Tel Optus and has over 25 years of industry experience in IT and Telecommunications in Australia. He continues to advise firms in the Asia Pacific.

His research covers the theories and practices of leadership, strategy and innovation, especially on service and business model innovation, and enterprise architecture. He also conducts multi-year research contracts on service resilience and business innovation for high profile organisations.

Read more at www.uts.edu.au/staff/eng-chew
The Internetworking program is intended for computing science, IT or engineering graduates, with or without networking experience, who wish to learn or extend their knowledge of networking and networking technologies.

The program will give you a hands-on learning experience using various resources, including the support provided by Cisco Systems for broad computer network and relevant applications. This includes routing, switching, security, wireless and VoIP, mobile computing, web systems, and cloud computing and operating systems.

This program covers all aspects of the organisational use of networks: design, implementation, security, management, end systems and applications. Courses within this program offer a degree of subject choice that enables you to choose subjects that suit your interests and career path.

The UTS Master of Science in Internetworking program has been designed to meet industry’s needs for computer network professionals and software and applications programmers (focusing on Internet services maintenance/support). It will give you a thorough and practical grounding in networking, network design, network administration and network management.

The program is ideal for students who wish to prepare for a number of industry-based certifications and complete these subjects over an 18 month period, rather than 12 months, to meet the prerequisite requirements more effectively. These include the Cisco Certified Network Associate (CCNA) Routing and Switching, Cisco Certified Network Professional (CCNP), CCNA Voice and CCNA Security.

It is also ideal for IT professionals who would like to be retrained and move into computer networking and its relevant fields, or as research-oriented students looking to complete a larger thesis (based on primary rather than secondary data, thus improving prospects for future research careers).

Course Code: C04160
CRICOS code: 043341A
Course duration:
Local: 1.5 years (full-time); 3 years (part-time)
International: 1.5 years (full-time)
Credit recognition: Applicants with a recognised bachelor’s degree in IT may apply for up to 4 subjects (core subjects only) of credit recognition.
Study load: 72 credit points (12 subjects)
Intake: Autumn (March) / Spring (July)
Professional recognition: Students can prepare for Cisco CCNA and CCNP industry certification.
How to apply: See page 26
English language requirements: See page 27
Study mode: This course is delivered in standard mode which involves weekly attendance, with some classes offered in the evening.

A recognised bachelor’s degree or equivalent, preferably in computing science, IT, computer engineering, telecommunications or a cognate discipline. Applications are assessed on academic merit. Two years’ experience in networking or in another position in the IT industry is desirable, but is not a mandatory requirement.
**ACADEMIC PROFILE**

Dr Karla Felix Navarro

Program Leader Master of Science in Internetworking

Lecturer and UTS Cisco Academy Legal Main Contact

Karla Felix Navarro is an internationally respected networking specialist and researcher whose work spans the areas of IT and Health Sciences, with over 30 international publications to date. She lectures in a wide range of internetworking subjects, and is the program leader for the Master of Science in Internetworking and the legal main contact for the UTS Cisco Networking Academy.

Karla’s PhD was on an interdisciplinary project on wireless sensor network applications for healthcare monitoring purposes—one of the first in Australia. Her thesis was innovative in its use of Network Management models and tools to monitor personal health parameters. Karla’s research interests are in the areas of software defined networks (SDN), Internet of Things (IoT), augmented/mixed reality interfaces, serious games for health, and nomadic health applications through the use of emerging cloud, mobile, and wireless communication technologies.

Karla has maintained a close relationship with industry all through her career inside and outside academia. Internationally, she has professional experience in dealing with various corporations and government funded research institutions in Mexico and in Canada, such as the DC Group and the National Research Council of Canada (NRC).

INTERNETWORKING PROGRAM
CONTINUED

MASTER OF SCIENCE IN INTERNETWORKING (EXTENSION)

The Master of Science in Internetworking (Extension) gives you the opportunity to undertake more electives in areas that may interest you or that align with your career direction. Some subjects that are only available in the Master of Internetworking (Extension) as elective options include 4G Mobile Technologies, Advanced Topics in Computer Networks, Cloud Computing, Software as a Service (SaaS) and Software Defined Networking (SDN).

You can start off in this course or progress into it after having completed at least one semester of the Master of Science in Internetworking. You can also sample the course by completing the Graduate Certificate in Internetworking and should you decide to progress to the master’s, the subjects you have already completed will be credited in full (provided you meet the academic requirements and transfer into the master’s internally).

Course Code: C04224
CRICOS code: 055279C
Course duration:
Local: 2 years (full-time); 4 years (part-time)
International: 2 years (full-time)
Credit recognition: Applicants with a recognised bachelor’s degree in IT may apply for up to 4 subjects (core subjects only) of credit recognition.
Study load: 96 credit points (16 subjects)
Intake: Autumn (March) / Spring (July)
Professional recognition: Students can prepare for Cisco CCNA and CCNP industry certification.
How to apply: See page 26
English language requirements: See page 27
Study mode: This course is delivered in standard mode which involves weekly attendance, with some classes offered in the evening.

COURSE STRUCTURE

See page 19.

MINIMUM ENTRY REQUIREMENTS

A recognised bachelor’s degree or equivalent, preferably in computing science, IT, computer engineering, telecommunications or a cognate discipline. Applications are assessed on academic merit. Two years’ experience in networking or in another position in the IT industry is desirable, but is not a mandatory requirement.

GRADUATE CERTIFICATE IN INTERNETWORKING

This course provides a postgraduate level introduction if you are looking to retrain and move into computer networking and its relevant fields.

Should you decide to progress to the master’s, the subjects you have already completed will be credited in full (provided you meet the academic requirements and transfer into the master’s internally).

Course Code: C11145
CRICOS code: 063424K
Course duration:
Local: 0.5 year (full-time); 1 year (part-time)
International: 0.5 year (full-time)
Study load: 24 credit points (4 subjects)
Intake: Autumn (March) / Spring (July)
How to apply: See page 26
English language requirements: See page 27
Study mode: This course is delivered in standard mode which involves weekly attendance, with some classes offered in the evening.

MINIMUM ENTRY REQUIREMENTS

It may be possible to enter into the Graduate Certificate in Internetworking based solely on your experience in the networking industry. Ultimately, however, your suitability will be determined by academic staff and may require an interview.
Dewan Salehin

Master of Science in Internetworking (Extended)*

Network and Application Analyst,
Delacon

I was able to make the most of UTS's partnership with Cisco. I was part of a team that won the Asia-Pacific round of the 2013 NetRiders International Skills competition and got to travel to the Cisco headquarters in Silicon Valley as a result. Equipped with all the latest technologies and well-informed lecturers, UTS was able to provide me with a quality education that has proved really helpful in my career.

Read more at
www.uts.edu.au/dewan-salehin

*Predecessor to Master of Science in Internetworking (Extension)

Wenjing Jia

Lecturer

Wenjing Jia's research delves into image and video analysis, algorithms and applications for computer vision, and visual pattern recognition. She is particularly interested in extracting text information from images (such as vehicle license plate detection and recognition, character/text detection from natural scene images or web pages and emails), and developing deep features and deep learning architectures for various computer vision applications.

Read more at
www.uts.edu.au/staff/wenjing-jia
Research within the UTS Faculty of Engineering and Information Technology is highly advanced, industry focused and part of the lively and rigorous research culture at the university.

Our world-class research is focused on ‘practical innovation’, pioneering research solutions with real-world impact. Our researchers are recognised leaders in their fields, responsible for delivery of cost effective innovative solutions to current national and international challenges.

The Faculty of Engineering and Information Technology is a major force in many of the university’s research strengths, such as:

- intelligent mechatronic systems
- quantum computation and intelligent systems
- innovation in IT services and applications
- health technologies
- green energy vehicle innovation
- real-time information networks
- built infrastructure
- technology in water and wastewater
- advanced analytics
- electrical machines and power electronics
- energy policy
- human-centred technology design

Master’s by Research and PhD candidates are supervised by academic research staff with expertise in the candidate’s chosen field. With a focus on industry collaboration, proposals that involve direct working relationships with industry professionals are strongly encouraged.

**PhD** – a Doctor of Philosophy (PhD) is a UTS-wide degree which involves an intense period of supervised study and research, culminating in the submission of a thesis. Students must, through original investigation, make a distinct and significant contribution to knowledge in their field of specialisation.

**Master’s by Research** – enables students to extend and deepen their knowledge of a specialised area of computing/information technology by undertaking research under the supervision of a member of academic staff.

**Research Support**

The UTS Graduate Research School provides support to research students, supervisors and early career researchers at UTS. They offer development through research education programs, policy development, advice and scholarships.

Contact us at:

Tel: +61 2 9514 1336
Email: grs@uts.edu.au

## COURSE

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>MASTER OF SCIENCE IN COMPUTING SCIENCES (RESEARCH)</th>
<th>MASTER OF ANALYTICS (RESEARCH)</th>
<th>DOCTOR OF PHILOSOPHY</th>
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<tr>
<td>C03025</td>
<td>C03051</td>
<td>C02029 and C02047</td>
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<tr>
<td>CRICOS CODE</td>
<td>001121E</td>
<td>075277F</td>
<td></td>
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<tr>
<td></td>
<td>Local: 2 years full-time</td>
<td>Local: 2 years full-time</td>
<td></td>
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<tr>
<td></td>
<td>4 years part-time</td>
<td>4 years part-time</td>
<td></td>
</tr>
<tr>
<td></td>
<td>International: 2 years full-time</td>
<td>International: 2 years full-time</td>
<td></td>
</tr>
<tr>
<td>COURSE DURATION</td>
<td>&gt; Technology Research Preparation</td>
<td>&gt; Technology Research Preparation</td>
<td></td>
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<tr>
<td></td>
<td>&gt; Technology Research Methods</td>
<td>&gt; Technology Research Methods</td>
<td></td>
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<tr>
<td></td>
<td>&gt; Thesis (Computing Science)</td>
<td>&gt; Thesis (Analytics)</td>
<td></td>
</tr>
<tr>
<td>SUBJECTS</td>
<td>Local: 2 years full-time</td>
<td>Local: 4 years full-time</td>
<td></td>
</tr>
<tr>
<td></td>
<td>International: 2 years full-time</td>
<td>8 years part-time</td>
<td></td>
</tr>
<tr>
<td>ENTRY REQUIREMENTS</td>
<td>Local: A UTS recognised bachelor’s degree, or an equivalent or higher qualification, or other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.</td>
<td>Local: A UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>International: A UTS recognised degree</td>
<td>International: A UTS recognised degree</td>
<td></td>
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</tbody>
</table>

Director of Research Programs - Associate Professor Mehran Abolhasan

For enquiries: feit.research@uts.edu.au

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Research Scholarships
UTS offers a range of scholarships for research students.
For more information visit: www.uts.edu.au/future-students/scholarships

Our Research Strengths in IT

New in 2015, the Global Big Data Technologies Centre aims to advance the science in big data technologies, develop world-leading platforms, and engage primarily with the ICT industry to make economic and societal impact. The Centre’s research programs cover mobile sensing and communications; computer vision; cloud computing and data intensive systems; and computational intelligence systems and brain-interface.

The Advanced Analytics Institute provides interdisciplinary innovation, expertise and leadership in data science and engineering; analytics science and services; behaviour and social informatics; economic computing; and advanced statistics. Its strengths lie in big data analytics, business analytics, data mining, machine learning, behaviour analytics, government analytics, marketing analytics, multimedia analytics, social analytics, bioinformatics, decision-making, optimisation, and risk analytics and management.

The Centre for Human Centred Technology Design brings human-centred approaches to the design of existing, new and emerging technologies for both work and leisure activities. In doing so, it aims to avoid current design weaknesses caused from development processes driven by concerns other than the use of the technology. Its ICT design programs include: software development; information systems; interaction design; and learning environments.

The Centre for Innovation in IT Services and Applications aims to develop and nurture innovation for next generation IT services and applications. It focuses on innovative applications such as assistive mobile health, cloud-based services, distributed systems, information security, next-generation software-defined and virtualised networks, multimedia, intelligent image processing and pattern recognition algorithms, computer vision, and high-end visualisation technologies for large and complex data.

The Centre for Quantum Computation and Intelligent Systems develops theoretical foundations, innovative technology and practical systems that will result in next generation enterprise intelligent systems. Its five major research programs cover: quantum computation and information processing; data mining and knowledge discovery; decision support, uncertain systems and e-service intelligence; innovation and entrepreneurial practice; and infrastructure enhancement.

The Centre for Real-Time Information Networks delivers practical solutions to complex distributed real world problems by applying appropriate real-time information and communication technologies to engineering systems. It focuses on applied research with the aim of providing social benefit and holds close links with both industry and research bodies working in the application domain. Its areas of research include: embedded systems; web design; wired and wireless communications; network management; and real-time systems.

For more information on Research at UTS: Information Technology, including research areas and academic supervisors, visit: www.feit.uts.edu.au or email: FEIT.Research@uts.edu.au

Applicants must secure the agreement of a supervisor prior to lodging an application.
TUITION FEES

Local Students
All UTS: IT postgraduate coursework programs are fee-paying. Tuition fees are charged:
- based on the particular course in which you are enrolled
- based on the number of credit points in which you are enrolled
- at the rates set for that course for the current year (these are revised annually)

For further information on fees for postgraduate students at UTS, visit www.fees.uts.edu.au

Australian and New Zealand citizens and Australia permanent residents applying for a research degree are eligible for a Research Training Scheme (RTS) place.

In addition to tuition fees, all UTS students are required to pay a Student Services and Amenities Fee. See below for more information.

FINANCIAL ASSISTANCE

FEE-HELP is a government loan scheme that assists eligible local students to pay their tuition fees. Using FEE-HELP means you do not have to pay your tuition fees up-front. You can inform your employer that you have a FEE-HELP loan and they will withhold your payments through the PAYG tax system.

If your postgraduate degree is related to your employment, your tuition fees may be tax deductible. For more information, contact your financial advisor or the Australian Taxation Office. Or visit www.ato.gov.au

For more information about FEE-HELP visit wwwstudyassist.gov.au or call 1800 020 108.

International Students

Tuition fees vary from one course to another, and must be paid in advance each semester. Fees are determined by the number of credit points being undertaken in that semester. Unless noted, the quoted semester tuition fee assumes you will enrol in a standard 100% credit point load for your chosen course, which is normally 24 credit points per semester. Your actual semester course cost may differ from this figure depending on the course and the number of credit points taken per semester. Textbooks and other course materials are additional expenses.

As an international student you are required to complete your degree on time. This normally involves being enrolled full-time each semester. Note: fees are subject to increase each year.

For detailed information about tuition fees for UTS courses and the UTS Fees and Refund Protocol, visit wwwinternational.uts.edu.au

Health Cover for International Students

To be granted a student visa by the Australian Government, Overseas Student Health Cover (OSHC) is required. It is also a visa condition and your responsibility as a student to maintain this health cover throughout your stay in Australia. OSHC covers students for emergency medical attention through the public health system. The university can arrange visa-length cover for you, the cost of which is to be paid at the same time as tuition fees. As a guide, the cost for single cover without extras in 2015 was A$341.25 for 7 months and A$682.50 for 14 months.

STUDENT SERVICES AND AMENITIES FEE

Local and international students are required to pay a Student Services and Amenities Fee. This fee funds services and amenities at UTS such as social and cultural clubs, services for developing students study skills, UTS food, beverage and retail outlets (including a 10% discount for students), the free legal services centre for students, and the second-hand bookstore.

In 2015 the Student Services and Amenities fee was A$143. If you’re an Australian citizen or on a humanitarian visa, this fee may be deferred through a new government loan scheme called SA-HELP. For more information see wwwfees.uts.edu.au
Orientation
http://uts.ac/1yKRIUI
The UTS orientation program welcomes you to university life and helps you to get the most out of your student experience. Discover the services available, find out course and subject information, tips on living in Sydney and meet new friends. All students are expected to attend orientation activities and orientation is compulsory for international students. For continuing students the Introduction/Transition to Study Weeks will provide transition to study activities and information on courses/subjects.

Peer Network
http://uts.ac/UTSpeernetwork
Peer Networkers are student volunteers who help new students when they first arrive on campus and throughout each semester. The Peer Network also encourages students to connect with others from Australia and around the world through the weekly Peer Network Café.

UTS International
The UTS International Student Centre, provides international students with face-to-face contact to answer your enquiries regarding studies, administrative issues and living in Sydney.

An Open and Respectful Environment
http://uts.ac/1Htop98
UTS is a diverse community, welcoming many different cultures and faiths. There is a chaplaincy service, which includes Baha’i, Buddhist, Christian, Jewish and Islamic chaplains, as well as clubs and societies offering spiritual support.

Higher Education Language and Presentation Support (HELPs)
UTS provides free English language and academic literacy skills assistance to students. Services include weekly study, reading and speaking skills workshops, writing clinics and daily drop in consultation. Practise speaking English with staff and student volunteers through the daily Conversations@UTS sessions.

Peer Learning – U:PASS
U:PASS is a study group facilitated by senior students who have done well in a subject, tutoring more junior students. Within a session, you may review lecture notes, participate in problem solving activities or prepare for exams.

KickStart@UTS
http://uts.ac/kickstartatuts
The KickStart@UTS program introduces new international research degree students to the various sources of support available to assist you in preparing for research study.

Your Pathway to Graduate Success
Your career is in your hands: preparation for graduate success can start from your first months at university as you begin building your professional network. UTS offers resources and tools to guide you on the path to your professional career.

To find out more about support services, visit www.uts.edu.au/current-students/support
To have your questions about studying at UTS answered face-to-face, you can:
> visit a UTS student recruitment agent:
   find an agent in your country by visiting [www.uts.ac/AgentFind](http://www.uts.ac/AgentFind)
> speak with a UTS representative at a UTS international event: check our listing at [www.uts.edu.au/future-students/international/international-events](http://www.uts.edu.au/future-students/international/international-events)

Scholarships for international students
The Faculty offers generous scholarships to international students. For further information, including eligibility criteria and application deadlines, visit [www.uts.ac/scholarshiputs](http://www.uts.ac/scholarshiputs)

Research applicants
Applications for postgraduate research can be submitted to UTS's Graduate Research School. Applicants are required to consider the area of research they want to pursue, draft a research proposal and find a supervisor prior to lodging an application. Visit [www.uts.edu.au/apply-for-research](http://www.uts.edu.au/apply-for-research) for more information on the application process or email [feit.research@uts.edu.au](mailto:feit.research@uts.edu.au)

Research Application Closing Dates
**Autumn (March) Semester 2016** – 30 October 2015
**Spring (July) Semester 2016** – 31 May 2016*

*Closing dates to be confirmed. Please check the website for updates.

Additional Application Requirements (for local students)
Applicants to the Master of Business in IT Management program must submit
> an up-to-date CV
> a letter of support from your current employer and;
> the Postgraduate Coursework Supplementary Questionnaire

Face-to-face enquires
To have your questions about studying at UTS answered face-to-face, you can:
> visit a UTS student recruitment agent:
   find an agent in your country by visiting [www.uts.ac/AgentFind](http://www.uts.ac/AgentFind)
> speak with a UTS representative at a UTS international event: check our listing at [www.uts.edu.au/future-students/international/international-events](http://www.uts.edu.au/future-students/international/international-events)
NON-AWARD STUDY
Local students can study single Engineering subjects without committing to a full degree (this is called non-award study). This type of study may be undertaken out of personal interest or to upgrade skills or knowledge in a specific area. Successful completion of these subjects may be recognised in future study. To apply, visit www.uts.ac/non-award-study

TIMETABLE INFORMATION
The UTS Timetable Builder allows you to view current semester timetables to get an idea of when subjects may be scheduled and offered. Visit www.timetable.uts.edu.au

ADMISSION REQUIREMENTS
Unless otherwise stated under the course description, applicants must have completed a UTS recognised bachelor’s degree or equivalent, or submitted other evidence of general and professional qualifications that demonstrate your potential to pursue graduate studies.

ENGLISH LANGUAGE REQUIREMENTS
If your previous education was not conducted in English, you may be required to demonstrate proficiency in English by completing an English language test or program recognised by UTS. As a guide, the scores required are shown below:

<table>
<thead>
<tr>
<th>TYPE OF STUDY PROGRAM</th>
<th>IELTS (Academic Strand)</th>
<th>TOEFL (internet Based)</th>
<th>PTE (Academic)</th>
<th>CAE</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSTGRADUATE COURSEWORK</td>
<td>6.5 overall, writing 6.0</td>
<td>79 – 83 overall, writing 21</td>
<td>58 - 64</td>
<td>176 overall with a writing score of 169</td>
</tr>
<tr>
<td>POSTGRADUATE RESEARCH</td>
<td>6.0 overall with a writing score of 6.0</td>
<td>60-78 overall with a writing score of 21</td>
<td>50-57</td>
<td>169 overall with a writing score of 169</td>
</tr>
</tbody>
</table>

Disclaimer: Courses and electives are offered subject to numbers. The information in this brochure is provided for Australian and New Zealand Citizens and Australian Permanent Residents. If you are an international student, please consult the International Course Guide available from UTS: International. Information is correct at time of printing (June 2015) and is subject to change without notice. Changes in circumstances after this date may alter the accuracy or currency of the information. UTS reserves the right to alter any matter described in this brochure without notice. Readers are responsible for verifying information that pertains to them by contacting the university.
Want more information?
VISIT OUR WEBSITE
www.it.uts.edu.au


Contact us
Local students
UTS Student Centres
Tel: 1300 ASK UTS (1300 275 887)
Ask a question online www.ask.uts.edu.au

International students
Tel: 1800 774 816 (free call within Australia)
Tel: +61 3 9627 4816 (for international calls)
Web: www.international.uts.edu.au
Email: international@uts.edu.au

Attend a UTS: IT Postgraduate Information Evening
– register at www.it.uts.edu.au