FACULTY SNAPSHOT
7354 students
1979 postgraduate coursework students
415 higher degree research students
347 staff across the Faculty of Engineering and IT

UTS AT A GLANCE
35,772 students
31,264 students at the City campus
9031 international students
23,196 undergraduate students
11,331 postgraduate coursework students
1245 higher degree research students
2797 staff

UTS STUDENT DIVERSITY
51% female students
49% male students
41% are 25 years or older
130+ languages other than English are spoken by the UTS student body.
TAKE THE NEXT STEP IN YOUR CAREER WITH AN INDUSTRY-RECOGNISED QUALIFICATION FROM UTS:IT

Are you prepared for the challenges you face as an IT professional? It is essential to keep your knowledge and skills up to date with the latest advances and emerging technologies. Postgraduate courses at UTS:IT are current, practical and reflect the real world.

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 equip 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.

Industry collaboration
UTS responds pro-actively to the current workplace environment. Our courses are regularly reviewed for relevance and we develop aspects of the curriculum in conjunction with industry to keep pace with change and meet employers’ current and future needs. We regularly bring industry practitioners into the classroom to share their up-to-date industry knowledge and skills. And we conduct collaborative research with industry that informs teaching at a coursework level.

Research excellence
UTS:IT has a lively and cutting-edge research culture driving advances in technology, practice and education. Our research is needs-driven and collaborative and we work with many enterprises in business partnerships. Faculty researchers are world-class and recognised leaders in their field, responsible for delivering new, better and more cost-effective IT solutions to complex business problems.

Outstanding facilities
UTS: IT is located in an award winning building with 16 large, well-equipped PC laboratories running both Windows and Linux operating platforms. Specialist labs also operate in areas such as internetworking, games and computer graphics. The UTS: IT building is wireless and network connected with remote access available for your convenience. Access to the building and laboratories is available 24 hours a day, seven days a week with exclusive access for IT students. We also offer online teaching support.

In addition, a new A$229 million, environmentally friendly building to house the Faculty of Engineering and Information Technology is currently under construction scheduled for completion at the end of 2014.

Cisco facilities and accreditation
We have shared a successful partnership with Cisco Systems for over 14 years, and are a regional 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.

Strike a work-life balance
All courses are available part-time, and you can vary the number of subjects you take per semester if you have more or less time available to study. Courses are normally held in the evenings to fit in with your busy professional life.

Central location
The UTS City campus is in the heart of Sydney. Just five minutes’ walk from Central Station, it’s close to the CBD and easily accessible by bus and train. There are also a number of parking stations close to campus which offer discounted student rates.

TAKE THE NEXT STEP IN YOUR CAREER WITH AN INDUSTRY-RECOGNISED QUALIFICATION FROM UTS:IT
INFORMATION TECHNOLOGY PROGRAM

Whether you are an IT professional, or wanting to enter the information and communication technologies (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.

We offer a wide choice of electives and subject streams in the master’s program so you can specialise and focus on the areas most relevant to you. The specialisation streams include areas such as: business intelligence technologies, computer graphics and gaming, data mining, enterprise software engineering, information systems management and services, multimedia, and network applications and services.

Our practical and industry-focused courses teach you the theory and concepts and give you the practical skills to use IT to build or transform your organisation or business. You will gain an enhanced understanding of the business context and the technical developments that are shaping the ICT industry.

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, but have studied little or no IT;
> have a minimum qualification equivalent to an Australian bachelor’s degree in IT or a related field, with no IT work experience;
> have a minimum qualification equivalent to an Australian bachelor’s degree in IT or a related field, with IT work experience.

Course co-ordinator – Alan Sixsmith

Course streams

Business Intelligence Technologies

Learn the processes, tools and technologies required to transform data into information and information into knowledge, 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.
Computer Graphics and Gaming
Learn the theoretical and practical knowledge and skills needed to build modern 3D computer graphics applications for use in animation, movie special effects or computer games. Graduate with the skills and knowledge that have allowed a number of our students to go on to win internationally recognised awards for their animation work.

Enterprise Software Engineering
Learn how to solve typical software engineering 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 engineering topics, you can also choose a number of subjects in various programming languages to enhance your technical skills in your work as a developer/programmer or software engineer.

Information Systems Management
There is strong industry demand for IT professionals who can combine their technical expertise with an understanding of business operations and management processes in an IT context. Gain the necessary knowledge and skills to prepare you to: manage IT projects, manage IT contracts and outsourcing and develop an effective IT strategy.
INFORMATION TECHNOLOGY PROGRAM

Information Systems Services
Effective information systems architecture is essential for a business competing in today’s global marketplace. Learn how to design information systems architecture, business process integration, systems quality management, and how to incorporate business intelligence into an IT strategy. These advanced skills will be of benefit in your work as an IT business analyst or systems analyst.

Network Applications
Internet-based applications form a major part of today’s IT infrastructure. Learn how to develop enterprise-scale web applications involving technologies such as .NET, Web Services and Java 2 Enterprise Edition (J2EE).

Network Services
This stream allows you to study a sub-set of the subjects offered in our Internetworking program such as network management, network security and contemporary issues in the field of networking. UTS:iT is a Cisco Regional Academy.

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<table>
<thead>
<tr>
<th>COURSE</th>
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<td>1 year full-time; 2 years part-time or 0.5 years full-time; 1 year part-time with credit recognition.</td>
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| SUBJECTS | Stream 1 (limited IT background):  
> Fundamentals of Software Development  
> Database  
> Enabling Enterprise Information Systems  
> LANs and Routing  
Stream 2 (IT background):  
Choose 4 elective subjects. |  
> Fundamentals of Software Development*  
> Database*  
> Enabling Enterprise Information Systems*  
> LANs and Routing*  
> Technology Research Preparation  
Plus 3 elective subjects. |
| PROFESSIONAL RECOGNITION | N/A | Associate level membership of the Australian Computer Society |

*Applicants with a recognised bachelor’s degree in computer science, information systems, IT or software engineering have the option to apply for one semester of credit recognition.
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| SUBJECTS               | > Fundamentals of Software Development*  
> Database*  
> Enabling Enterprise Information Systems*  
> LANs and Routing*  
> Project Management#  
> IT Professional and Society#  
> Technology Research Preparation  
> Research Project (6cp) plus 1 elective subject or Research Project (12cp)  
Plus 3 elective subjects. | > Fundamentals of Software Development*  
> Database*  
> Enabling Enterprise Information Systems*  
> LANs and Routing*  
> Project Management#  
> IT Professional and Society#  
> Technology Research Preparation  
> Research Project (6cp) plus 1 elective subject or Research Project (12cp)  
Plus 7 elective subjects. |
| PROFESSIONAL RECOGNITION | Professional level membership of the Australian Computer Society | Professional level membership of the Australian Computer Society |

*Applicants with a recognised bachelor’s degree in computer science, information systems, IT or software engineering have the option to apply for one semester of credit recognition.

#Students who have covered IT project management, software quality assurance and ethics in prior undergraduate studies may substitute electives for either or both these subjects.
This course provides 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 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.

This course is not offered to international students.

Course co-ordinator – Alan Sixsmith

“Widely recognised as the first to consider green information systems in the global environmental context.”

Dr Chadi Aoun

<table>
<thead>
<tr>
<th>COURSE</th>
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| UAC CODE | Autumn 942631  
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| CREDIT POINTS | 24 credit points |
| COURSE DURATION | 1 year part-time |
| ENTRY REQUIREMENTS | Applicants should have a minimum qualification equivalent to:  
                      > a recognised bachelor’s degree with a major in computing/IT (or related discipline);  
                      > a recognised bachelor’s degree plus a graduate diploma in computing/IT (or related discipline);  
                      > evidence that their knowledge of computing is equivalent to that described above, if they have insufficient formal qualifications. |
| SUBJECTS | > Project Management  
          > Software Quality Management  
          Plus 2 electives |
Dr Chadi Aoun
Lecturer, School of Systems, Management and Leadership

Chadi Aoun is internationally recognised as one of the first to investigate green information systems and the use of e-collaboration to address global environmental issues such as climate change. His research applies a trans-disciplinary perspective to studying the diffusion and utilisation of collaborative technologies for climate change mitigation and adaptation.

He has been involved in teaching across the topics of information systems, IT management and research methodologies and has supervised several research students to completion. Other areas of interest include social media adoption and use, IT governance, cultural implications on use of technology, innovation diffusion, information systems education and curriculum design. Chadi also received a teaching award in 2010 for his innovative curriculum development.

Chadi coordinates the cutting-edge postgraduate subject Sustainability and Information Systems which explores arising and complex challenges affecting organisational sustainability, and the need for collaboration among a wide spectrum of stakeholders mediated through the use of information technologies and collaborative media.

Chadi is a member of the Association of Information Systems where he serves as SIG Green Chair elect and is a member of the Australian Computer Society.

Dr Jinjun Chen
Associate Professor, School of Systems, Management and Leadership

Jinjun Chen’s ground-breaking research in Cloud Computing is part of a collaborative project attracting a prestigious Australian Research Council grant. His other key research interests are Workflow Management, Security and Privacy.

His research in Cloud Computing applies a trans-disciplinary perspective to advance cloud computing technology and transform business industry to facilitate cloud computing for enterprise innovation.

Jinjun has taught undergraduate and postgraduate subjects in universities on topics of Cloud Computing, Web Programming, Information Systems, Information Technology and Business Process Management, as well as supervising research students to completion.

Serving on a number of committees, Jinjun is Vice Chair of IEEE Technical Committee on Scalable Computing and is a member of IEEE.

Jinjun co-ordinates the cutting-edge postgraduate subject Information Systems Architecture – A Cloud Perspective which explores how to build up cloud based information systems for transforming enterprise business to facilitate cloud computing for enterprise innovation and high competitiveness in modern global business environment.
MASTER OF BUSINESS IN IT MANAGEMENT

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

> deepening business knowledge bases and broadening frames of reference
> self confidence to engage with other business leaders
> capacity to envision the future

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

Your personal and career development will be enhanced by the valuable networking opportunities with both your fellow students and industry lecturers, developing relationships that last beyond the classroom. You will be inspired and motivated, leveraging off the considerable experience of like-minded professionals – a vital part of the MBITM learning experience.

Entry requirements

Graduate Diploma and Master of Business in IT Management

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

Graduate Certificate in IT Management

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

Graduate Certificate in Strategic IT Leadership

A recognised bachelor’s degree or equivalent in an appropriate discipline such as information technology or commerce and a minimum of five years’ professional work experience, plus some supervisory experience.

or

Evidence of general and professional qualifications, such as, other post-secondary school qualifications that can establish your aptitude, knowledge and practical work experience.

This program is not offered to international students.

Course co-ordinator – Associate Professor Ken Dovey
“Extensive leadership consulting and teaching experience”

Associate Professor Ken Dovey

Ken Dovey’s considerable global experience includes professorial appointments in leadership studies in South Africa, international consulting and executive coaching roles in a range of business corporations, government organisations, and NGOs across the world, and teaching roles on executive education programs at a variety of business schools in Europe, Australia, South Africa and Asia. His research is focused on leadership practices that facilitate learning, creativity and innovation in organisations and he has published extensively in international academic journals in these areas.
The lecturers were able to put these management theories into an IT context, which was much more relevant and really brought the content to life for me.

About half way through my MBiTM Masters degree I was successful in gaining a position in Canberra working on the national IT interoperability policy. I have since held senior management positions in aviation, security and financial regulatory agencies, and am now the Head of Policy at the NEHTA.

I’m currently working on the electronic transfer of prescriptions, which will make life easier for pharmacists and consumers. This will allow a pharmacist to scan a barcode on a paper prescription and download an electronic copy of the prescription exactly as it was typed by the GP. This will save the pharmacist time and reduce errors that the pharmacist may make when typing the information into their system. We’re also working on ways to allow consumers to fill in their scripts without the paper – no more rifling around in the cabinet for that elusive script you know still has a repeat on it!

I really appreciated the passion of the lecturers and the personalised attention they gave to every student. I now have four degrees under my belt, and the feedback and support I received from the teaching staff in the MBiTM was streets ahead of the other courses I had studied before.

What are my plans for the future? To change the world – one byte at a time!”

---

**Betina McMahon**

Head of Policy, National e-Health Transition Authority

“I work at the National e-Health Transition Authority (NEHTA), which is enhancing healthcare by enabling access to the right information, for the right person, at the right time and place.

I was working as an IT project manager but wanted to become a more effective manager when I found out about the Master of Business in IT Management (MBiTM) at UTS. This Masters had subjects like effective people management, managing organisational change, and leadership, but they were delivered by industry executives who came from an IT background.

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**Course Information**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>GRADUATE CERTIFICATE IN STRATEGIC IT LEADERSHIP</th>
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<td>&gt; Strategic IT Investment &gt; Strategic Leadership for Innovation &gt; Leadership and People Management Plus 1 elective</td>
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</table>
“The lecturers were able to put management theories into an IT context, which was much more relevant and really brought the content to life for me.”

Bettina McMahon

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<th>COURSE</th>
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<td>SUBJECTS</td>
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<td>Graduate Diploma plus  &gt; Management Research Project  &gt; IT Strategy  &gt; Management Research Methods  Plus 1 elective</td>
</tr>
</tbody>
</table>
INTERNETWORKING PROGRAM

The roll out of the national broadband network and the impending boost to Australia’s capability to deliver modern communication and information services makes now an excellent time to advance your skills as a networking professional in Australia. Employment for Computer Network Professionals to 2015-16 is expected to grow strongly at 3.2% per annum compared to 1.8% for all occupations.1

UTS: Information Technology is a regional Cisco Networking Academy and has been in a successful partnership with Cisco Systems for over 14 years. We provide practical hands-on learning using resources and equipment provided by Cisco Systems, including routing, switching, security, wireless and VoIP. There are four dedicated and fully resourced networking labs equipped with the latest hardware and these resources can also be accessed via Netlab.

Students are prepared for CCNA (Cisco Certified Network Associate) and CCNP (Cisco Certified Network Professional) industry certification within the UTS/Cisco Networking Academy Program.

All aspects of the organisational use of networks are covered. Advanced subjects across a number of streams are also available: CCNP; broadband technologies and services; wireless and mobile; and web technologies.

Minimum entry requirements

A recognised bachelor’s degree or equivalent, preferably in computing science, information technology, computer engineering, telecommunications or cognate discipline. Applications are assessed on academic merit. Two years’ experience in networking or in another position in the IT industry is desirable. Applicants without work experience are also considered.

Entry at the graduate certificate level based solely on experience in the networking industry may be possible and an applicant’s suitability would be determined by academic staff and may require an interview.

Course contacts – Dr Qiang Wu and Dr Karla Felix Navarro

Course streams

Broadband Technology and Services

Countries around the world are investing in their broadband infrastructure, including Australia’s National Broadband Network (NBN). This stream of subjects covers the design, management and implementation of corporate networks in the context of an underlying high-speed broadband infrastructure.

Cisco Certified Network Professional (CCNP)

The CCNP preparation stream extends the CCNA basics by offering more advanced study of the design, implementation and troubleshooting of both local and wide area networks, as well as advanced topics in security, voice, wireless and video. Students who complete all subjects in this stream will be prepared to sit for the Cisco CCNP certification exams.

Network Security
Organisations are facing an increasing need to ensure the security of their corporate networks. This stream of subjects covers current best practice in cryptography and security protocols, plus the ability to apply the theory in practice using industry-standard Cisco equipment. You can also learn to design secure enterprise networks and understand related management and legal issues.

Web Technologies
Internetworking is about more than just protocols – you also need to know how to build applications in a distributed, networked environment. This stream offers a range of subjects in developing web applications using current technologies such as Web Services, J2EE and .NET.

Wireless and Mobile
Wireless networks and the applications that use them are changing the way the world works and plays. This stream covers a variety of different wireless and mobile networking technologies, as well as how to build next-generation applications which take advantage of mobility.

Other electives
A variety of other electives are available, including UNIX systems administration, project management, interaction design, and subjects in digital media. Students in master’s programs can choose to undertake a research project. Students in the extended master’s can also complete some of their electives from outside the Internetworking program.

Dr Karla Felix Navarro
Lecturer and UTS Cisco Regional Academy Legal Main Contact
Karla Felix Navarro is an internationally respected networking specialist 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 legal main contact for the UTS Cisco Regional Academy.

Karla’s PhD was 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 tools to monitor personal health parameters. Karla’s research interests are in the area of nomadic applications through the use of emerging mobile and wireless communication technologies, augmented reality interfaces and medical image processing.
### Internet Working Program

**Michael Ascharsobi**  
**Google Apps Strategist, Google**  
“I work as an Apps Strategist with Google’s Enterprise division. I assist with delivering support for cloud services and other IT products to small and large businesses, educational institutions and government agencies all around the world. I build customer-facing operations, define client needs and work with product and engineering teams to improve the overall product experience.

I completed my Bachelor of Science in IT at UTS and then decided to undertake the Master of Science in Internetworking. I chose UTS because of the up-to-date course content, practical teaching style and purpose built networking labs, fully resourced by Cisco Systems. With the wide subject choice I was able to take technical subjects such as Routing, Switching, Security, Voice, Quality of Service and Unix System Programming as well as improving my professional communication skills with non-technical subjects. The lecturers challenged but also supported us and it was a great opportunity to build professional relationships with the staff. I am now back at UTS teaching a number of networking subjects. As I really enjoy teaching at UTS I want to continue with that and maybe embark on a PhD in the future.”

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Spring 945610 |
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| COURSE DURATION | 0.5 years full-time; 1 year part-time | 1 year full-time; 2 years part-time |
| SUBJECTS | > Mobile Communications and Computing  
> LANs and Routing  
> UNIX Systems Programming  
Select one from the following:  
> Contemporary Telecommunications  
> Mobile Commerce Technologies  
> WANs and VLANs  
> Technology Research Preparation | > Mobile Communications and Computing  
> LANs and Routing  
> UNIX Systems Programming  
> Technology Research Preparation  
Select one from the following:  
> Contemporary Telecommunications  
> Mobile Commerce Technologies  
> WANs and VLANs  
Plus 3 electives |
| PROFESSIONAL RECOGNITION | N/A | > Associate level membership of the Australian Computer Society.  
> Preparation for Cisco Certified Network Associate (CCNA) industry certification. |
"I am working on a number of projects at Google, using many skills acquired while at UTS."

Michael Ascharsobi

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<td>COURSE DURATION</td>
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<td>2 years full-time; 4 years part-time</td>
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<td>&gt; Mobile Communications and Computing &gt; LANs and Routing &gt; UNIX Systems Programming &gt; Technology Research Preparation Select one from the following: &gt; Contemporary Telecommunications &gt; Mobile Commerce Technologies &gt; WANs and VLANs Plus 7 electives</td>
<td>&gt; Mobile Communications and Computing &gt; LANs and Routing &gt; UNIX Systems Programming &gt; Technology Research Preparation Select one from the following: &gt; Contemporary Telecommunications &gt; Mobile Commerce Technologies &gt; WANs and VLANs Plus 11 electives</td>
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<td>PROFESSIONAL RECOGNITION</td>
<td>&gt; Professional level membership of the Australian Computer Society &gt; Preparation for Cisco Certified Network Associate (CCNA) and Cisco Certified Network Professional (CCNP) industry certification.</td>
<td>&gt; Professional level membership of the Australian Computer Society &gt; Preparation for Cisco Certified Network Associate (CCNA) and Cisco Certified Network Professional (CCNP) industry certification.</td>
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The interactive multimedia program is designed to educate the innovators and future leaders of the various professions working in multimedia so that they are able to respond to identified needs and manage change within a fast-moving industry. As a student of this program, you will receive a high level of individual attention. Classes are generally small and run as seminars rather than standard lectures and tutorials. You will be carefully counselled to tailor a program of core and elective subjects specific to your talents and interests.

The program includes many guest lecturers, from respected Sydney-based multimedia practitioners to international visitors. Various events are organised throughout the year to showcase student work and give students the opportunity to meet and speak with industry professionals, including recruiters.

Staff and students of the Institute for Interactive Media and Learning (IML) have a longstanding relationship with the Australian Interactive Media Industry Association (AIMIA). Members are regularly invited to assess student projects as well as to advise on the strategic direction of the course. UTS student work has been consistently recognised in the finals of the annual AIMIA Awards.

More information can be found at http://mim.iml.uts.edu.au

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### Course Information

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<tr>
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<th>GRADUATE CERTIFICATE IN INTERACTIVE MULTIMEDIA</th>
<th>GRADUATE DIPLOMA IN INTERACTIVE MULTIMEDIA</th>
<th>MASTER OF INTERACTIVE MULTIMEDIA</th>
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<td>CREDIT POINTS</td>
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<td>COURSE DURATION</td>
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<td>1 year full-time; 2 years part-time</td>
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</table>
Dr Meredith Jones  
Senior Lecturer – Interactive Multimedia Course Co-ordinator  

Meredith Jones is a media and cultural studies scholar. Her research is based around connections between bodies and technologies and she has special interests in digital and popular media. Much of her work focuses on gender and body modification. Meredith is the author of the highly influential book “Skintight: An Anatomy of Cosmetic Surgery” (2008). She is currently working with an international team on a multi-disciplinary, multi-site ethnographic study about Cosmetic Surgery Tourism funded at over $700,000 by the UK Economic and Social Research Council. She has given keynote addresses about her research in Canada, the UK and the US.

Minimum entry requirements

**Master’s**
- a recognised bachelor’s degree with honours, or equivalent, in any field; or
- a recognised bachelor’s degree in any field plus either two years of relevant professional experience or a credit average or better in a Graduate Certificate or Graduate Diploma in Interactive Multimedia; or
- outstanding professional experience at a senior level.

**Graduate diploma**
- a recognised bachelor’s degree or equivalent in any field plus either one year of relevant professional experience or a credit average or better in a Graduate Certificate in Interactive Multimedia; or

> a diploma and substantial relevant professional experience; or
> substantial senior professional experience.

**Graduate certificate**
- a recognised bachelor’s degree or equivalent in any field; or
- a diploma and considerable relevant professional experience; or
- substantial senior professional experience.

**Course co-ordinator** – Dr Meredith Jones

“Researching connections between bodies and technologies, focusing on gender and body modification.”

Dr Meredith Jones
Janet Tot
Media Developer, Pearson Australia

“As part of Pearson’s eLearning and Rich Media Team, I build and develop the interactive multimedia resources that sit alongside the higher education and vocational textbooks. My job involves interactive Flash animation, post-production of sound and video, and front-end web development/design.

After having returned home from living in the UK for a couple of years, I decided it was time to find a career I could really sink my teeth into. I could see a role in IT might offer me something that would be technically challenging as well as creative.

I chose UTS’s Master of Interactive Multimedia (MiM) program as it seemed to have the best range of subjects, covering theory as well as practical skills, which I hoped would give me an excellent overview of the creative IT industry and help me clarify where I was headed with my career.

Studying the MiM I not only gained the necessary theory but the practical assignments had me producing tangible pieces of work, sometimes for real-world clients, which meant that I had a portfolio of work as well as my degree once I finished.

I look forward to continuing my work in the eLearning field and the opportunities it can offer me in terms of my personal and professional development.”

“Not having had much experience in the IT industry, my studies at UTS were absolutely crucial in making it possible for me to land my dream job.”

Janet Tot
**RESEARCH DEGREES**

**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.

**Our research strengths**

The [Advanced Analytics Institute (AAI)](https://www.uts.edu.au/research/our-research/advanced-analytics-institute) provides interdisciplinary expertise and leadership in areas including data mining, machine learning, applied statistics, behaviour analytics, data science and engineering, marketing, finance, economics, decision-making, optimisation and risk management.

Analytics is about the science of analysis, engaging information, technology, business and decision-making. At UTS, a cross-disciplinary approach to analytics research brings together experts from across the faculties and research centres to form a specialist analytics group.
The Centre for Human Centred Technology Design (HCTD) brings together researchers who share an interest in information and communications technology design that is focused on those who will ultimately use the end product. They aim to bring human-centred approaches to the design of existing, new and emerging technologies for both work and leisure activities through four programs of research: software development; information systems; interaction design; and learning environments.

The Centre for Innovation in IT Services and Applications (iNEXT) aims to develop and nurture innovation for NEXT generation IT services and applications. These include: innovative applications with special focus on assistive mobile health and internet-enabled business applications, high-end visualisation technologies, and novel image processing architectures and intelligent recognition algorithms for extracting important information from video streams and wireless sensor networks for advanced surveillance and environmental monitoring purposes.

The Centre for Quantum Computation and Intelligent Systems (QCIS) aims to develop theoretical foundations, innovative technology and practical systems that will result in next generation enterprise intelligent information systems. Its five major research programs cover: quantum computation, knowledge discovery, decision support, innovation, and infrastructure enhancement. Together, these programs develop a set of innovative and practical methodologies and techniques for intelligent information processing and system building for a broad range of businesses.

Associate Professor Jaya Kandasamy – Director of Research Programs
Craig Shuard – Research Administration Officer
Email: Craig.Shuard@uts.edu.au

<table>
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<th>COURSE</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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<td>ENTRY REQUIREMENTS</td>
<td>A 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>A 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>A 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>
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| SUBJECTS | > Technology Research Preparation  
> Technology Research Methods  
> Thesis (Computing Science) | > Technology Research Preparation  
> Technology Research Methods  
> Thesis (Analytics) | > Technology Research Preparation  
> Technology Research Methods  
> PhD Thesis in:  
Analytics or  
Computer Systems or  
Information Systems or  
Software Engineering |
At UTS we are committed to a cooperative and collaborative approach to research. By crossing traditional boundaries and focusing on the link between industry and community needs, our research is developed within the wider context of the rapid changes in contemporary society. Our focus is on innovative applied and practical research.

UTS has the ability to engage with the external world ensures that we are an exciting place in which to study. You know you’ll be working on research that matters. Strong links have been developed with both government and industry in areas such as: analytics, business intelligence, data mining, image processing, innovation and leadership, m-health and networking and applications. Some of the organisations we link with are Alcatel, Centrelink, IBM and Westpac Banking Corporation.

A UTS research degree gives you a relevant and progressive qualification recognised around the world as our research strengths are closely coupled with our commitment to industry-relevant research.

"Bringing intelligence to e-Business and technologies"

Professor Jie Lu
Rony Novianto, PhD Student
Endeavour PhD Fellowship 2011 and IBM PhD Fellowship 2012 recipient

“I always wanted to create robots to transform human lives. After I graduated with a Bachelor and a Master of Engineering in Robotics, I could have gone directly into the industry to work and create robots. However, current technologies don’t have the full capability to develop robots that can truly transform human lives.

So, I chose to undertake a PhD to challenge and push myself to create new technologies and develop something that would advance the world. Having a PhD will develop my capabilities to be a leading expert in my field and will open up all sorts of exciting work opportunities.

My research involves creating a self-modifying robot that can alter its own code. In developing robotic systems, developers design a robot’s behaviour to respond to a problem in an environment. However, in a complex and dynamic environment, it is unreasonable to expect developers to be able to foresee and develop all possible responses.

To support self-modification capabilities in a self-modifying robot, I have been developing a robot architecture called ASMO. This enables the use of multiple representations and allows the robot to perform complex tasks. ASMO has been implemented in a few different robots including Smokey, a robot bear, and Nao a humanoid robot.”
Local Applicants
Coursework degrees
You can submit your application for a postgraduate coursework degree:
> in person at one of our postgraduate information evenings. Normally these evenings are held in April and June for the Spring semester intake and in September, November and January for the Autumn semester intake. For more information or to register to attend please visit www.it.uts.edu.au or www.pg.uts.edu.au
> online through the Universities Admission Centre (UAC) at www.uac.edu.au/postgraduate or (02) 9752 0200

Coursework application and semester start dates
Autumn semester
Opens – 6 September 2012
Closes –
Round 1 – 31 October 2012
Round 2 – 30 November 2012
Round 3 - 31 January 2013
Offers are made progressively from October 2012
Autumn semester commences 25 February 2013

Spring semester
Opens – early April 2013
Closes –
Round 1 – 31 May 2013
Round 2 - 28 June 2013
Offers are made progressively from May 2013
Spring Semester commences 29 July 2013

Additional application requirements
Applicants for the Interactive Multimedia program, Master of Business in IT Management program and the Graduate Certificate in Strategic IT Leadership must also complete a Postgraduate Coursework Supplementary Questionnaire. This form will ask you to answer a series of questions relating to your application that will be used in conjunction with your UAC application when deciding admission. Visit www.postgraduate.uts.edu.au/applying/uac/additional/it.html for the supplementary questionnaires.

Research degrees
Applications for postgraduate research can be submitted to the UTS University Graduate School. Applicants are required to draft a research proposal and find a supervisor prior to lodging an application.
Visit www.feit.uts.edu.au/research/postgraduate/index.html for more information on the application process, or contact our Research Administration Officer, Craig Shuard at Craig.Shuard@uts.edu.au

Applicants can apply for admission in either Autumn or Spring semester.

Fees
All UTS:IT postgraduate coursework programs are fee paying. Australian and New Zealand citizens and Australian permanent residents are eligible for a Research Training Scheme (RTS) place. For further information on fees for postgraduate students at UTS, visit www.fees.uts.edu.au

FEE-HELP
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 for 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 deductable. For more information, contact your financial adviser or the Australian Tax Office (ATO) www.ato.gov.au

For more information about FEE-HELP visit http://studyassist.gov.au or call 1800 020 108
Centrelink Student Income Support
The UTS Master of Information Technology (C04157) and Master of Science in Internetworking (C04160) have been approved by the Australian Government as eligible courses for students to receive Student Income Support (Youth Allowance and Austudy) through Centrelink. Students who have queries about their eligibility should contact Centrelink on 13 2490.

Timetable Information
The UTS Timetable Builder allows you to view current semester timetables to get an idea of when subjects may be offered and scheduled. Please visit http://timetable.uts.edu.au/

English language proficiency
If your previous studies were undertaken in an overseas country you may need to provide evidence of English proficiency. For details please visit: www.uts.edu.au/study/english.html

International Applicants
Please note this guide is not intended for International students and not all courses are available to international students.

Course information for international students is available in the relevant UTS: International Course Guide and online at www.uts.edu.au/international

Applicants who are not citizens or permanent residents of Australia or citizens of New Zealand must apply as International students directly through UTS International.

Free call within Australia: 1800 774 816
Tel outside Australia: (+61 3) 9627 4816
Email: international@uts.edu.au
Website: www.uts.edu.au/international

Like more information?
Contact us
Tel: 1300 ASK UTS (1300 275 887)
Email: www.ask.uts.edu.au
Website: www.it.uts.edu.au

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

Or contact Rene Leveaux, Director of Postgraduate Programs in Information Technology at Rene.Leveaux@uts.edu.au

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 (July 2012) 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.