Information Technology at Macquarie University

Bachelor of e-Business

Bachelor of Information Technology
(Majors in: Business Information Systems, Software Technology)

Bachelor of Information Technology - Games Design and Development

Master of Information Technology

Master of Information Technology Consulting
Why study Information Technology at Macquarie University?

**Strong ties to industry.** Our Industry Partnerships Program offers links to major companies such as Honeywell, Unisys, Microsoft, Avaya, OEM, Fujitsu and EMC. You’ll benefit from visiting lecturers, internships and industry advisory panels that take an active role in your study.

**Focus on practical applications.** You will graduate with the level of knowledge and hands-on experience that employers are looking for. In the Master of Information Technology Consulting, you will complete two sessions of industry placement, giving you valuable industry-based experience on your CV.

**Receive a professional qualification.** The Bachelor of Information Technology, Bachelor of eBusiness, Master of Information Technology and Master of Information Technology Consulting are all accredited by the Australian Computer Society (ACS), the peak industry body in Australia. The ACS has commended Macquarie University for the quality of its program content.

**Learn from leading researchers.** Eighty per cent of Macquarie’s research activity was judged to be at world standard or higher in the Australian Government’s Excellence in Research for Australia initiative.

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**Bachelor degree in any discipline, with strong GPA.**

- **Graduate Diploma of Information Technology**
- **Bachelor of e-Business**

**Bachelor degree with substantial computing component and strong GPA OR Bachelor degree in any discipline, with strong GPA and 3 years IT work experience.**

- **Bachelor of Information Technology - Games Design and Development**
- **Bachelor of Information Technology**

- **Master of Information Technology**

- **Master of Information Technology Consulting**

GPA of 3.5
Bachelor of e-Business

Graduates will have the computing, business and media skills necessary for a range of careers in this rapidly growing field.

WHO SHOULD APPLY
Students who are interested in business, computers and how the internet shapes modern business practice.

WHAT YOU CAN STUDY
- Introduction to Computer Science
- Introduction to Systems Design and Data Management
- Introduction to Business Information Systems
- Organisational Behaviour
- Accounting Information for Decision-Making
- Data Communications
- Web Technology
- International Business Operations
- Database Systems
- E-Commerce Technology

CAREER OPPORTUNITIES INCLUDE:
Business process re-engineering, database design and administration, data warehousing, electronic commerce, end-user support and training, networking and communication, programming, project management, systems analysis, technology management, web design.

ACCREDITATION
This degree is accredited by the Australian Computer Society (ACS), the peak industry body in Australia.

KEY FEATURES
- Completion of this degree program will satisfy the standard for the professional level of the Australian Computer Society.
- Complete a final year project in either eCommerce technologies or business information systems where you’ll work under academic and industry supervision.
- In this rapidly growing area there is a high demand for professionals. The degree is designed to prepare graduates for a range of occupations.

ADMISSION INFORMATION

CRICOS CODE
043333A

MINIMUM COURSE DURATION
3 years

CREDIT POINTS REQUIRED
72

COURSE COMMENCES
Session 1 (February), Session 2 (July)

2012 ANNUAL FEE (AUS)*
$28,848

ADMISSION REQUIREMENTS
ATAR of 75.00 or equivalent and a sound knowledge of mathematics. For accepted qualifications and calculations of ATAR equivalencies, visit www.international.mq.edu.au/applications/apply/qualifications

ENGLISH LANGUAGE REQUIREMENTS
IELTS (Academic English only). Minimum 6.5 overall, with a minimum of 6.0 in each section. For other accepted qualifications, visit www.international.mq.edu.au/applications/apply/english.

* Fees listed are those approved for the 2012 academic year and are subject to change. For the latest information about this program, visit the international online course database www.international.mq.edu.au/study/undergraduate

Luba Skalrud | Current student
“I enjoy both IT and business and this degree is a great opportunity to integrate and learn about both growing industries. I chose Macquarie as it is one of the few universities that offers such a degree. The facilities and support that are offered to students here are outstanding. The lecturers are always available to help and the computer labs are available to students seven days a week.”

INTERNATIONAL STUDENT ENQUIRIES
T: +61 2 9850 7346
E: iso@mq.edu.au
www.international.mq.edu.au

ACADEMIC ENQUIRIES
T: +61 2 9850 6000
E: scienceenquiries@mq.edu.au
www.comp.mq.edu.au
Bachelor of Information Technology

This degree offers a comprehensive study program where you can major in either business information systems or software technology or both.

WHO SHOULD APPLY
Students who want to understand how to manage data, information and knowledge resources or want to to develop their computer skills to build, use and understand systems.

WHAT YOU CAN STUDY
- Introduction to Computer Science
- Introduction to Systems Design and Data Management
- Discrete Mathematics I
- Database Systems

Business Information Systems major:
- Applications Modelling and Development
- Accounting Systems Design and Development
- Information Systems for Management

Software Technology major:
- Software Engineering
- Algorithms and Data Structures
- Object-Oriented Programming Practices

CAREER OPPORTUNITIES INCLUDE:
Business analyst, communication systems analysis and design, database administration, end-user support and training, IT sales or marketing, IT or management consultant, programmer, project leader, systems analyst or systems engineer.

KEY FEATURES
- Completion of this degree program will satisfy the standard for the professional level of the Australian Computer Society.
- If you major in both areas, you’ll learn how to handle low level implementation issues and complete a high level analysis of your client’s needs.
- All students undertake a final year project in order to practise their skills in a software development life cycle.
- The Bachelor of Information Technology can be combined with the Bachelor of Laws allowing you to complete two bachelor programs in five years of full-time study.

ADMISSION INFORMATION

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<th>CRICOS CODE</th>
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<tr>
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ENGLISH LANGUAGE REQUIREMENTS
IELTS (Academic English only): Minimum 6.5 overall, with a minimum of 6.0 in each section. For other accepted qualifications, visit www.international.mq.edu.au/applications/apply/english

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Ollie Wang | Taiwan
Bachelor of Information Technology

“Since being at Macquarie University, I feel like I have been all over the world! I get to meet someone from a different country every day. It’s really unique and I love it. Macquarie is a fantastic place to study - I have received so much support and it’s really changed the way I look at life and my goals.”

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Bachelor of Information Technology
- Games Design and Development

Provides a thorough grounding in software design and development skills, equivalent to the Software Technology major of the Bachelor of Information Technology, with specialist units in video games.

WHO SHOULD APPLY
Students who want to develop the technical knowledge to successfully contribute to games production projects and develop a deeper understanding of games, whilst also being equipped with the skills necessary for a career in the more general software industry.

WHAT YOU CAN STUDY
- Fundamentals of Computer Science
- Introduction to Digital Media Production
- Discrete Mathematics I
- Game Design
- Web Technology
- Modelling and Animation
- Critical Games Studies
- Computer Graphics
- Information Technology Project
- Sound, Image and Interactive Media

CAREER OPPORTUNITIES
This degree prepares students for a career in games design and development. Students will also be equipped with the skills necessary for a career in the more general software industry.

KEY FEATURES
- Undertake a final-year project in order to practise your knowledge and have the opportunity to showcase an example of your work to potential employers.
- Access to a dedicated computer graphics and virtual-reality teaching laboratory.
- The only university degree available in video games in New South Wales where the combination of technical skills with a critical understanding of video games as a media tool is offered.

ADMISSION INFORMATION

CRICOS CODE: 074078K
MINIMUM COURSE DURATION: 3 years
CREDIT POINTS REQUIRED: 72
COURSE COMMENCES: Session 1 (February), Session 2 (July)
2012 ANNUAL FEE (AUS)*: $28,848

ADMISSION REQUIREMENTS
ATAR of 75.00 or equivalent. For accepted qualifications and calculations of ATAR equivalencies, visit www.international.mq.edu.au/applications/apply/qualifications

ENGLISH LANGUAGE REQUIREMENTS
IELTS (Academic English only). Minimum 6.5 overall, with a minimum of 6.0 in each section. For other accepted qualifications, visit www.international.mq.edu.au/applications/apply/english.

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Dr Michael Hitchens
Course convenor
“One of the most important things we do is to give students the opportunity to show what they can do. Making video games takes inspiration, effort and creativity and we want to give students the space to show they can do that.”

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Master of Information Technology
ALSO OFFERED AS A POSTGRADUATE DIPLOMA

This degree is designed for students who are established IT professionals and want to hone their skills in a particular area, build on the knowledge gained in their undergraduate degree, or to simply give themselves the edge in career advancement.

WHO SHOULD APPLY
Information Technology graduates seeking to hone their skills in specialist areas, or experienced IT professionals seeking to consolidate and advance their existing skills with the latest in best practice and research.

WHAT YOU CAN STUDY
- Advanced Programming in Software Engineering
- Computer Networks
- Data Mining and Business Intelligence
- Enterprise Application Integration
- Information Systems Design and Management
- Object Oriented Technology
- Project and Risk Management
- Research and Development Project
- Security and Forensic Discovery
- Security Management
- Systems Engineering Process
- Web Applications

CAREER OPPORTUNITIES
This degree provides the opportunity to develop specialist knowledge in key growth areas within the information and communication technologies industry. This can give you a competitive advantage in employment over recent graduates from bachelor degrees, and will help you advance your career in your chosen field.

Sara Faisal | Ethiopia
Master of Information Technology (specialising in Information Systems)

“Macquarie’s Information Technology courses provide not only a theoretical aspect but a practical aspect which means you can use what you’ve learned in your day-to-day work. There is also a lot of group work, which allows you to work with people from all over the world, and its great to participate in that knowledge sharing.”

KEY FEATURES
- Enables you to specialise in one of the following: Information Systems, Management, Networking, Research and Development, Software Engineering, System Security or Web Technologies
- Units have been developed in partnership and consultation with industry
- Professionally accredited by the Australian Computer Society
- The opportunity to undertake a major project, providing practical experience.

ADMISSION INFORMATION
CRICOS CODE 04493B
MINIMUM COURSE DURATION 1 year
CREDIT POINTS REQUIRED 32
COURSE COMMENCES Session 1 (February), Session 2 (July)
2012 ANNUAL FEE (AUS)* $30,016

ADMISSION REQUIREMENTS
Bachelor degree from a recognised university with substantial computing component and GPA of 2.75 or graduate diploma in an ICT discipline or bachelor degree in non-ICT discipline with strong GPA and 3 years of experience.

ENGLISH LANGUAGE REQUIREMENTS
IELTS (Academic English only): Minimum 6.5 overall, with a minimum of 6.0 in each section. For other accepted qualifications, visit www.international.mq.edu.au/applications/apply/english.

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# Master of Information Technology Consulting

The Master of Information Technology Consulting prepares students for a consulting career in the IT industry. It comprises two six-month internship placements in industry. Applicants for this degree will usually be interviewed to determine suitability for industry placement.

## WHO SHOULD APPLY
Master of Information Technology graduates seeking to develop their skills in consulting in the information technology environment.

## WHAT YOU CAN STUDY
Two six-month industry based internships.

## CAREER OPPORTUNITIES
The degree provides the opportunity to develop specialist knowledge in consulting and is designed to provide a competitive advantage and support career advancement.

## Key Features
- Two six-month internship placements in industry where you can put into practice your consulting skills in the workplace

## Admission Information

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<td><strong>Minimum Course Duration</strong></td>
<td>1 year</td>
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<td><strong>Credit Points Required</strong></td>
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<td><strong>Course Commences</strong></td>
<td>Session 1 (February), Session 2 (July)</td>
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<td><strong>2012 Annual Fee (AUS)</strong>*</td>
<td>$30,016</td>
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<td><strong>Admission Requirements</strong></td>
<td>Master of Information Technology degree from a recognised university with a GPA of 3.50 out of 4.00. Applicants for this degree will usually be interviewed to determine suitability for industry placement.</td>
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<td><strong>English Language Requirements</strong></td>
<td>IELTS (Academic English only): Minimum 6.5 overall, with a minimum of 6.0 in each section. For other accepted qualifications, visit <a href="http://www.international.mq.edu.au/applications/apply/english">www.international.mq.edu.au/applications/apply/english</a>.</td>
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Macquarie University has the advantage of being located within one of Australia’s high-technology precincts. The Department of Computing has developed an Industry Partnerships Program with major companies such as Honeywell, Unisys, Microsoft, Avaya, OEM, Fujitsu and EMC.
About Macquarie University

At Macquarie, you will join a welcoming community of 35,000 students with more than 12,000 international students from over 110 countries. Ranked within the top ten universities in Australia (Shanghai Jiaotong University Rankings, 2011), Macquarie University is recognised for its innovative curriculum, high-quality teaching, world-leading research and green campus environment.

Campus location and facilities

Macquarie University’s North Ryde campus is uniquely located in parklands only 30 minutes from Sydney’s central business district. On campus you will find modern facilities, including a state-of-the-art Sport and Aquatic Centre, private teaching hospital, museums and hotels.

In 2011 we opened our new multi-million dollar library – a learning space like no other in Australia, featuring study lounges, a robotic document retrieval system and a cafe.

The Macquarie Centre shopping complex is on our doorstep and we have our own train station on campus, providing a direct rail link to the city centre.

Quality student accommodation is available both on and off-campus.

Enhance your degree

Macquarie University offers a range of leadership and career building programs to help students get an edge in the global job market.

The Global Leadership Program (GLP) allows students to develop leadership and intercultural skills through studying, volunteering and participating in experiences both in Australia and overseas.

The Graduate Development Program (GDP) offers a personalised approach to building independent career skills, combining an individual development plan with one-on-one consultations, weekly workshops and industry speaker events.

Macquarie also offers an internship program and one of the most extensive international exchange programs of any Australian university.

Find out more

For more information about Macquarie University courses, international student support, accommodation or scholarship opportunities, please contact us.

Macquarie International
Tel. + 61 2 9850 7346
Email: iso@mq.edu.au
www.international.mq.edu.au

/ macquarieinternational @mqintl

CRICOS Provider Code 00002J. Information given in this publication is correct at the time of printing (January 2012) but is subject to change without notice. The University has the right to alter content or impose terms and conditions in relation to a program at any time. Course fees are set on an annual basis and may vary from the fees published here.