Computing, Games and Information Technology

Postgraduate

Web Edition
Updated 20 August 2015

Be true to you
Specialise in Computing and IT

RMIT University’s postgraduate computer science and information technology programs lead to a variety of job prospects in many different industries and sectors.

RMIT provides specialist postgraduate programs that are designed to meet industries’ needs in all key areas of Information and Communications Technology (ICT), including big data management, cloud computing, mobile computing, information security and assurance, software architecture, web systems and search technology, as well as business information systems.

Future employment opportunities for Australia’s ICT workforce are expected to be very strong. RMIT’s programs underpin career paths in project management and consulting in a wide range of specialist areas. Many industries need work-ready graduates, and RMIT delivers relevant postgraduate programs that emphasise practical experience and professional skills.

Profile

Attracted by RMIT’s good reputation among employers, information systems graduate Amanda Zhang chose to study with RMIT in Australia to connect with industry trends and practitioners.

“I used to work in the IT industry and was interested in developing my skills further, so this program was the right choice for me. It allows you to get connected with the industry rather than just learning from text books and the professors are extremely knowledgable.

“I had the opportunity to work with students from a variety of backgrounds. This taught me to approach problems from different perspectives and allowed me to improve my ability to work as part of a team.”

Amanda Zhang (cover)
Master of Business Information Technology
Acknowledgement of Country

The Wurundjeri people of the Kulin Nation are the traditional custodians of the land on which this organisation stands. RMIT pays its respects to owners and Elders, both past and present.

RMIT University

RMIT is a global university of technology and design and Australia’s largest tertiary institution. The University enjoys an international reputation for excellence in practical education and outcome-oriented research.

RMIT has three campuses in Melbourne, Australia, and two in Vietnam. The masters degrees in ICT are based on the RMIT City campus, with facilities that are purpose-built to replicate industry conditions and support interaction between students during study.
Influence Lives Through Research

RMIT University has world-leading strengths across a wide variety of areas in applied and theoretical research.

Computer Science and Information Technology Research at RMIT

The School of Computer Science and Information Technology has world-leading strengths in both applied and theoretical research.

Research activities are organised in seven key research areas and include highly qualified and experienced academic staff, research fellows, postdoctoral fellows and many talented and motivated postgraduate research students:

- computer science education research
- cyberspace and security
- data analytics
- evolutionary computing and machine learning
- information retrieval
- intelligent agents
- smart sensing and services

A masters by research or PhD consists primarily of a thesis project conducted under supervision of and in consultation with RMIT’s academic staff. You will also undertake a small coursework component to equip you with the necessary analytical, technical and communication skills to succeed in your research project.

A postgraduate research degree can pave the way to a career in research, or demonstrate your problem-solving, work and technical skills to prospective employers. With a research degree, you will stand out from the crowd.

Research Programs

You will undertake a research project under the guidance of your supervisor, culminating in the submission of a thesis or project. A masters by research is completed over four semesters full-time, while a PhD is completed over eight semesters full-time.

Masters and PhD by Research

<table>
<thead>
<tr>
<th>Program Code</th>
<th>Specialist Discipline</th>
<th>Further Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>MR201</td>
<td>Master of Business (Business Information Systems)</td>
<td><a href="http://www.rmit.edu.au/programs/mr201">www.rmit.edu.au/programs/mr201</a></td>
</tr>
<tr>
<td>DR201</td>
<td>PhD (Business Information Systems)</td>
<td><a href="http://www.rmit.edu.au/programs/dr201">www.rmit.edu.au/programs/dr201</a></td>
</tr>
<tr>
<td>MR221</td>
<td>Master of Science (Computer Science)</td>
<td><a href="http://www.rmit.edu.au/programs/mr221">www.rmit.edu.au/programs/mr221</a></td>
</tr>
<tr>
<td>DR221</td>
<td>PhD (Computer Science)</td>
<td><a href="http://www.rmit.edu.au/programs/dr221">www.rmit.edu.au/programs/dr221</a></td>
</tr>
</tbody>
</table>

You can find further details about individual programs by typing in the specific URL listed above.

For more information about College of Science, Engineering and Health research centres, affiliations and research expertise visit www.rmit.edu.au/seh.

To find out about research programs, supervision and entry requirements visit www.rmit.edu.au/graduateresearch.

You can find full details about application processes and key dates at www.rmit.edu.au/programs/apply/research.

What’s the Difference: Honours or Masters?

An honours degree is an extra year of your bachelor degree, which involves independent work on a major research project.

A masters degree by research also involves a major research project, but is taken over two years and is an additional degree to your bachelor degree.

www.rmit.edu.au/research

To Start Your Career in Research:

1. Complete your bachelor degree with high grades.
2. Complete an honours degree or a masters degree by research.
3. If you excel in your honours degree or masters degree by research, you can continue your research in a doctorate (PhD). This involves four years of research under the supervision of a senior researcher.

For further information about entry requirements and the application process for postgraduate by research programs, please refer to the How to Apply section of this brochure.

Take IT to the Limit

With a renewed research agenda, RMIT University’s School of Computer Science and Information Technology is attracting top international talent to work on major research projects Australia and internationally.

Professor Athman Bouguettaya is the Head of the School of Computer Science and IT at RMIT University.
My research topic is future internet, specifically about the Internet of Things. The aim of the Internet of Things is to connect everything together, not just human-to-human, but also machine-to-machine. Our focus is to enable smart objects to communicate efficiently with each other so that we can build smart applications to serve everyday life. For example, in the future, you may not need to go to hospital for a health check because body sensor networks and the Internet of Things will enable smart e-health applications to automatically monitor and control your health. Any problem with your health can be detected early so that the treatment process can be easier.

I completed my bachelor degree at Vietnam National University and my masters degree at Soongsil University, South Korea. I studied information technology and networking. Researching is my passion. I am very interested in discovering new things, especially things that can improve our daily life. RMIT has a good reputation around the world. I became aware of RMIT through its campus in Vietnam, which has produced many successful students. I had also heard that high-quality research was being undertaken by RMIT researchers.

I am very passionate about my research topic and have participated in academic forums regarding this field. Luckily, I also found a good supervisor, Prof. Tao Gu, who is an expert in this area.

My research can be applied to many types of smart applications such as smart buildings, smart vehicles, e-health and industrial automation.

Thinh Dinh
PhD (Computer Science)
Gain cutting-edge business IT knowledge and learn how to create successful business information systems solutions. You will develop technical and leadership capabilities to prepare you for challenging positions in business and government organisations. RMIT’s programs produce ethically and socially responsible professionals ready to innovate and lead in the changing business IT environment.

Learning and Teaching
Your courses may be offered during the day and late afternoon/early evening. Some advanced level elective workshops are offered over several days and/or weekends.

Your classes will mostly be held at the Swanston Academic Building where innovative learning spaces are interspersed with retail and social spaces, resulting in a stimulating environment for business students.

www.rmit.edu.au/bus/sab

You can expect to learn alongside students from Australia and overseas. This may include recent graduates from a variety of disciplines, as well as people currently employed. Each person brings valuable insights to group work and case studies based on their professional and personal background.

Industry Connections
In addition to the expertise provided by the College of Business Industry Advisory Board, the School of Business IT and Logistics maintains strong local and international links with industry and hosts regular guest speakers from organisations such as:
— AXA Australasia
— BHP Billiton
— Victoria Police
— The Australian
— IOOF
— Sensis
— GE Money

These presentations will reward you with enormous insights and possible opportunities for mentoring and employment.

Graduate Certificate

<table>
<thead>
<tr>
<th>Program Code</th>
<th>Campus</th>
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</thead>
<tbody>
<tr>
<td>GC099</td>
<td>City campus</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Duration</th>
<th>6 months full-time or part-time equivalent.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016 Tuition Fee</td>
<td></td>
</tr>
<tr>
<td>Full-Fee Places</td>
<td>$12,480 six months full-time. Please refer to fees information on page 18.</td>
</tr>
</tbody>
</table>

URL
www.rmit.edu.au/programs/gc099

Program Structure
The Graduate Certificate comprises four core courses in information systems and technology. The following is an example of courses offered:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>INTE1030</td>
<td>Information Technology Strategy</td>
</tr>
<tr>
<td>ISYS1015</td>
<td>Management of Computing Resources</td>
</tr>
<tr>
<td>ISYS2038</td>
<td>Foundations of Database Development</td>
</tr>
<tr>
<td>ISYS2395</td>
<td>Business Systems Analysis and Design</td>
</tr>
</tbody>
</table>

Career
Information and Communication Technology (ICT) professionals work in several sectors including finance, property and business services, as well as the primary ICT sector. Careers exist in a range of areas from business consulting, development, sales to technical roles.

Graduates are encouraged to progress to the Master of Business Information Technology.

Professional Recognition
Membership
Students and graduates are eligible to apply for membership with the Australian Computer Society (ACS) provided they fulfil membership requirements.

www.acs.org.au

Entry Requirements
An Australian bachelor degree or equivalent, or higher level qualification, in any discipline from a recognised tertiary institution. Applicants who do not meet the above entry requirement may be considered based on significant work experience (8–10 years).

Pathways
If you wish to progress to the Master of Business Information Technology, upon successful completion of the Graduate Certificate in Business Information Technology you will be admitted to the Master degree with exemptions from the four business enabling courses and the four courses completed in the Graduate Certificate, leaving a further eight discipline courses or electives to complete.

Credit and Exemptions
Applicants who have successfully completed postgraduate studies in a business (or related) discipline at another institution can have these assessed for credit or exemptions from this program consistent with the principles of the RMIT Credit Policy.

www.rmit.edu.au/students/enrolment/credit

Further Study
The Graduate Certificate in Business Information Technology is a pathway to the Master of Business Information Technology.
**Master by Coursework**

**Program Code**  
MC200  
**Campus**  
City campus

**Duration**  
1.5 to 2 years full-time or part-time equivalent, depending on the program entry pathway.

**2016 Tuition Fee**  
Full-Fee Places  
$24,960 per year full-time.  
Please refer to fees information on page 18.

**URL**  
www.rmit.edu.au/programs/mc200

**Program Structure**  
The Master degree comprises core and elective courses.

**Features**  
— The Business Information Technology Project gives you the opportunity to analyse, design, and build a business information systems solution under normal business conditions.  
— Explore a complex problem, and test and evaluate potential solutions with industry and community stakeholders in the course Business Research Design.

The following is an example of courses offered:

**Stage A (Business Enabling Courses)**
- **BUSM1162** Management 1 – Managing People  
- **BUSM3886** Business and Government in the Global Context  
- **ISYS1028** Global Business and Social Technology: A Case Study Approach  
- **ACCT2127** Accounting for Management Decisions

**Stage B**
- **INTE1030** Information Technology Strategy  
- **ISYS1015** Management of Computing Resources  
- **ISYS2038** Foundations of Database Development  
- **ISYS2395** Business Systems Analysis and Design

**Stage C**
- **INTE2397** Knowledge Management  
- **ISYS3300** Professional Issues, Ethics and Practice  
- **INTE2412** IT Governance and Change Management  
- **INTE1014** Emerging Trends in ICT and Business

**Stage D**
- **BUSM4448** Business Research Design  
- **ISYS3303** Business Information Technology Project

Two optional courses from the list below.

**Optional Courses**
- **INTE1040** Business Intelligence  
- **ISYS2396** Enterprise Systems  
- **INTE1208** E-Procurement and Supply Chain Technologies  
- **ISYS1033** IT Project Management  
- **INTE1002** Information Systems Security

**Career**  
You may work in a range of industry sectors including health, retail, banking, farming, teaching, transport, manufacturing, publishing, telecommunications, education and libraries. Potential roles in the public and private sectors include:  
— IT manager or consultant  
— chief information officer  
— e-business and e-procurement manager  
— business and systems analyst  
— systems management analyst  
— database administrator  
— IT project manager  
— web developer  
— systems architect  
— IT contract manager

You may also work as an independent broker or consultant or in electronic document management, applying your skills in litigation support, health and welfare, public administration and a variety of industry groups.

**Professional Recognition**  
The Master of Business Information Technology (MBIT) is accredited at the Professional level by the Australian Computer Society (ACS) and is internationally recognised through the Seoul Accord.

**Membership**  
Students and graduates are eligible to apply for membership with the Australian Computer Society (ACS).  
www.acs.org.au  
www.seoulaccord.com

**Entry Requirements**  
— An Australian bachelor degree or equivalent, or higher level qualification, in a business (or related) discipline* from a recognised tertiary institution; or  
— RMIT Graduate Certificate in Business Information Technology.

* Applicants with a degree in a non-business or related discipline need to apply for the Graduate Certificate/Master pathway if they wish to complete the Master degree in 1.5 years (full-time). Alternatively, applicants with a non-business or related discipline may be admitted to the Master degree without exemptions and will be required to complete the 16-course program in order to be eligible to graduate with the Master degree.

**Pathways**  
Upon successful completion of the Graduate Certificate in Business Information Technology you will be admitted to the Master of Business Information Technology, which requires the successful completion of a further eight courses.

**Advanced Standing**  
If you have completed an Australian bachelor degree or equivalent, or higher level qualification, in a business (or related) discipline from a recognised tertiary institution, you will receive exemptions from the four business enabling courses.

**Credit and Exemptions**  
Applicants who have successfully completed postgraduate studies in a business (or related) discipline at another institution can have these assessed for credit or exemptions from this program consistent with the principles of the RMIT Credit Policy.  
www.rmit.edu.au/students/enrolment/credit

**Further Study**  
Business research programs are offered at masters and doctoral level.  
Search www.rmit.edu.au “research programs”.

**Profile**  
“I chose to do my masters at RMIT because the program aligned most closely to my career aspirations. Eighteen months in, it has already been a huge benefit to my professional growth.

“If you’re passionate about your career and becoming a leader in the Information Technology sector, or even to further expand your knowledge of how businesses engage with IT, then this is the program for you.”

Tim Goodwin  
Master of Business Information Technology
Bachelor of
Computer Science (Honours)

In this honours program you will complete advanced-level coursework and a substantial research project in preparation for a research career or senior leadership role in computing. The program is intended for students who have a strong theoretical and practical bachelor degree in computing. Honours graduates with good results may proceed directly to postgraduate research. Several scholarships are available each year for strong applicants. Graduates typically choose to pursue their ideas in a research masters or doctoral program.

Learning and Teaching
The School of Computer Science and Information Technology provides you with access to specialised computer laboratories for use during class and outside of class. This program incorporates a coursework component and an honours thesis component, which includes a broad mix of learning experiences including lectures, tutorials, practical classes as well as working on the thesis component under the supervision of our chosen supervisor.

Program Structure
The Honours consists of 96 credit points and involves coursework and substantial research into new areas of computer science. The following is an example of courses offered:

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Methods</td>
<td>12</td>
</tr>
<tr>
<td>Select One Pair of Courses</td>
<td></td>
</tr>
<tr>
<td>Preliminary Computer Science Honours Thesis</td>
<td>12</td>
</tr>
<tr>
<td>Computer Science Honours Thesis</td>
<td>36</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>Computer Science Honours Thesis Part 1</td>
<td>24</td>
</tr>
<tr>
<td>Computer Science Honours Thesis Part 2</td>
<td>24</td>
</tr>
</tbody>
</table>

Elective Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioinformatics</td>
<td>12</td>
</tr>
<tr>
<td>Computer and Internet Forensics</td>
<td>12</td>
</tr>
<tr>
<td>Data Mining</td>
<td>12</td>
</tr>
<tr>
<td>Enterprise Architecture</td>
<td>12</td>
</tr>
<tr>
<td>Foundations Distributed Computing</td>
<td>12</td>
</tr>
<tr>
<td>Game Mechanics and Game Play Programming</td>
<td>12</td>
</tr>
<tr>
<td>Games and Artificial Intelligence Techniques</td>
<td>12</td>
</tr>
<tr>
<td>Information Retrieval</td>
<td>12</td>
</tr>
<tr>
<td>Intelligent Web Systems</td>
<td>12</td>
</tr>
<tr>
<td>Internet and Intranet Document Engineering</td>
<td>12</td>
</tr>
<tr>
<td>Knowledge and Data Warehousing</td>
<td>12</td>
</tr>
<tr>
<td>Object Oriented Software Design</td>
<td>12</td>
</tr>
<tr>
<td>Real-Time Rendering and 3D Games Programming</td>
<td>12</td>
</tr>
<tr>
<td>Secure Electronic Commerce</td>
<td>12</td>
</tr>
<tr>
<td>Software Requirements Engineering</td>
<td>12</td>
</tr>
<tr>
<td>Software Testing</td>
<td>12</td>
</tr>
<tr>
<td>Systems Architecture</td>
<td>12</td>
</tr>
<tr>
<td>Usability Engineering</td>
<td>12</td>
</tr>
<tr>
<td>User Interface Design</td>
<td>12</td>
</tr>
<tr>
<td>Web Services</td>
<td>12</td>
</tr>
</tbody>
</table>
Industry Connections
As a student enrolled in this program you will:
— undertake and be assessed on structured activities that allow you to learn, apply and demonstrate your professional or vocational practice
— interact with industry and community when undertaking these activities
— complete these activities in real or simulated work contexts or situations
The School has a strong Industry Advisory Committee, which is the main link between the program and industry. Membership includes staff from major IT companies with global and local presence. The Committee meets quarterly and provides feedback on the currency of our programs, the changing needs of industry and has input into the design of new programs. It also actively contributes to the School through participation in seminars, marketing events, industry awards and scholarships.

Career
Upon completion of the Honours program you will be employable in the information technology industry in Australia and worldwide, particularly in entrepreneurial research and development areas. You may also choose to continue your studies with a postgraduate research program.

Professional Recognition
This program is accredited at the professional level by the Australian Computer Society (ACS), which accredits information and communication technology-related programs that are offered by Australian universities, both onshore and offshore.
The program structure and contents were developed through a formal process of program renewal, based on the recommendations of the curriculum development joint taskforce of the IEEE Computer Society and the Association for Computing Machinery. A major part of this process was to identify the capabilities required for doing computer science research. This involved research into the literature of computer science education and consultation with a number of computer science researchers, including academic staff in the School and professional bodies such as the ACS.

Pathways
On completion of the Honours program there may be opportunities to proceed on to postgraduate studies. The following is a guideline as to options available for successful Honours students:
— **Honours First Class**: proceed directly into the Doctor of Philosophy program (typically such a student will attract scholarship funding).
— **Honours Second Class A**: may enrol in the Doctor of Philosophy program, but would be encouraged to enrol in a masters by research initially (student may not attract funding but may apply for tutorships).
— **Honours Second Class B**: may enrol in the a masters by research program (student may apply for tutorships).
Further study is not permitted for students achieving Honours Third Class or below.
Credits and exemptions will be assessed consistent with the principles of RMIT University’s Recognition of Prior Learning and Credit Transfer Policy.
For further information, please visit www.rmit.edu.au/students/enrolment/credit.

Entry Requirements
You will need to have completed one of the following, with at least a Distinction average (Grade Point Average 3.0):
— Bachelor of Computer Science
— Bachelor of Information Technology
— Bachelor of Software Engineering
Master of Computer Science

Build on your existing computer science or information and communications technology (ICT) skills and apply them to practical problems through a number of key roles in industry, government or business. This program is for people with a bachelor degree in computer science, ICT or significant work experience and is suitable for graduates who wish to study advanced computer science topics to enhance their career prospects. You will move through a wide range of real-world problems, developing a skill set spanning theoretical and algorithmic foundations and innovative developments in computing.

You will specialise in one of these industry-focused areas:

- big data management
- cloud computing
- mobile computing
- security
- software architecture
- web systems and search technology

You will undertake a major research or industry-based project, which will enhance your understanding of computer science fundamentals, and develop your skills in research, communication and project management.

On graduation you will have excellent programming skills, be capable of designing, implementing and maintaining complex software systems, and be able to readily adapt to new advances in the rapidly changing information technology environment.

You can progress from this program to either a Master of Computer Science by Research or a PhD in Computer Science.

Learning and Teaching

RMIT is committed to providing students with an education that strongly links formal learning with workplace experience.

You will learn through a broad mix of study modes including lectures, tutorials, practical classes, project work and seminars using face-to-face, online and other flexible delivery mechanisms.

Program Structure

The Master degree consists of 144 credit points. This includes advanced computer science core courses, four courses from your area of specialisation, one vocational elective and a minor thesis. You may choose to do a software engineering project in place of a minor thesis. Choose one of the following specialisations:

Big Data Management

The world is facing an information overload thanks to the profusion of data from a diverse and growing range of new and evolving sources, including social media, mobile devices, cameras, and many more. While the technological capacity to store information doubles every three years, 2.5 quintillion bytes of data were created each day in 2012, producing collections of data sets that are becoming too large and complex for the capabilities of existing database management tools and traditional data processing applications.

With a specialisation in Big Data Management you will learn to manage the challenges of big data and exploit its potential – capture, curation, storage, search, sharing, transfer, analysis and visualisation. Analysis of big data can lead to key organisational insights such as identifying business trends and determining research quality, which in turn can be applied to diverse areas and projects such as delivering preventative health care, linking legal citations and combating crime.

Cloud Computing

Cloud computing allows computing tasks – running applications, storing data, and so on – to be carried out remotely. The opportunity to exploit the potential economies of scale, implied efficiencies and massive savings available through such a system has given great impetus to cloud computing over recent years. Through this specialisation you will gain insights into many cloud computing systems, including Google AppEngine, Microsoft Azure, Yahoo’s Hadoop, Google’s MapReduce, Amazon EC2 and S3.

Mobile Computing

With mobile technologies facilitating advances in communications, finance, and information exchange and sharing, we’ve only just begun to explore the potential for this technology. As a platform for creating key applications for industry, government and commerce, the demand for skills in mobile computing systems is sure to grow, especially given the growth in internet and web-based systems. You will develop skills in the key areas in mobile computing including mobile software, mobile hardware, and mobile communication and security.
Security
At all levels, critical infrastructure relies upon information and database systems to store, process and exchange information. Organisations with diverse functions collect, process and store vast amounts of confidential information about employees, customers, products, research and more, on computers and database systems. Consequently, the security of this data, whether in banks or transport networks, telecommunications or utilities, has become vitally important. In this program you will develop technical and management skills to enhance security in computer systems. This is applicable to organisations whose functions are varied such as governments, the military, corporations, hospitals, financial institutions, universities or private businesses.

Software Architecture
Software architects oversee the high-level design and structure of the ICT systems that underpin the infrastructure of an organisation. With the accelerating growth and evolution in the technologies available for developing software applications and systems, greater efficiency and flexibility will be highly sought in organisations of all sizes.
In this program you will develop greater understanding of the high-level design and structure of the ICT systems that underpin the infrastructure of an organisation. You will gain expertise in advanced software development techniques and technologies, exploiting modern development environments and languages, and balancing a range of usability issues when designing solutions.

Web Systems and Search Technology
The explosion of web resources and internet applications presents us with unprecedented choice and opportunity. However, searching and deciding on what to use, choose or lose is becoming trickier. More than ever web users need more sophisticated search technologies and effective and efficient tools for locating, managing and exchanging all sorts of information, including documents, pictures and other structured and unstructured data.
In this program you will learn about the design and implementation of search engines, search engine optimisation, structured and unstructured information management and web services.

The following is an example of courses offered:

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>Advanced Professional Development</td>
<td>12</td>
</tr>
<tr>
<td>Algorithms and Analysis</td>
<td>12</td>
</tr>
<tr>
<td>Minor Thesis</td>
<td>36</td>
</tr>
<tr>
<td>Research Methods</td>
<td>12</td>
</tr>
<tr>
<td>Software Engineering Postgraduate Project</td>
<td>36</td>
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<tr>
<td>Software Engineering Project Management</td>
<td>12</td>
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<tr>
<td>Usability Engineering</td>
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<table>
<thead>
<tr>
<th>Specialisation Elective Courses</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>Advanced Topics in Artificial Intelligence</td>
<td>12</td>
</tr>
<tr>
<td>Advanced Topics in Distributed Systems and Networks</td>
<td>12</td>
</tr>
<tr>
<td>Advanced Topics in Search Technology</td>
<td>12</td>
</tr>
<tr>
<td>Advanced Topics in Software Engineering</td>
<td>12</td>
</tr>
<tr>
<td>Big Data Infrastructures</td>
<td>12</td>
</tr>
<tr>
<td>Big Data Processing</td>
<td>12</td>
</tr>
<tr>
<td>Cloud Computing</td>
<td>12</td>
</tr>
<tr>
<td>Cloud Infrastructures</td>
<td>12</td>
</tr>
<tr>
<td>Cloud Security</td>
<td>12</td>
</tr>
<tr>
<td>Computer and Internet Forensics</td>
<td>12</td>
</tr>
<tr>
<td>Cryptography and Security</td>
<td>12</td>
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<tr>
<td>Data Mining</td>
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<td>Database Systems</td>
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<td>iPhone Software Engineering</td>
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<tr>
<td>Knowledge and Data Warehousing</td>
<td>12</td>
</tr>
<tr>
<td>Mobile Application Development</td>
<td>12</td>
</tr>
<tr>
<td>Object Oriented Software Design</td>
<td>12</td>
</tr>
<tr>
<td>Secure Electronic Commerce</td>
<td>12</td>
</tr>
<tr>
<td>Secure Network Programming</td>
<td>12</td>
</tr>
<tr>
<td>Software Requirements Engineering</td>
<td>12</td>
</tr>
<tr>
<td>Systems Architecture</td>
<td>12</td>
</tr>
<tr>
<td>Web Services</td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Elective Courses</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting for Management Decisions</td>
<td>12</td>
</tr>
<tr>
<td>Artificial Intelligence</td>
<td>12</td>
</tr>
<tr>
<td>Broadcast Networks and Applications</td>
<td>12</td>
</tr>
<tr>
<td>Corporate Finance</td>
<td>12</td>
</tr>
<tr>
<td>Database Administration</td>
<td>12</td>
</tr>
<tr>
<td>Digital Media Computing</td>
<td>12</td>
</tr>
<tr>
<td>Document Mark-Up Languages</td>
<td>12</td>
</tr>
<tr>
<td>E-Business Supply Chains</td>
<td>12</td>
</tr>
<tr>
<td>Economic Analysis for Business</td>
<td>12</td>
</tr>
<tr>
<td>Electronic Commerce and Enterprise Systems</td>
<td>12</td>
</tr>
<tr>
<td>Financial Statement Analysis</td>
<td>12</td>
</tr>
<tr>
<td>Game Mechanics and Game Play Programming</td>
<td>12</td>
</tr>
<tr>
<td>Marketing Management</td>
<td>12</td>
</tr>
<tr>
<td>Risk Analysis and Assessment</td>
<td>12</td>
</tr>
<tr>
<td>Scripting Language Programming</td>
<td>12</td>
</tr>
<tr>
<td>Software Architecture: Design and Implementation</td>
<td>12</td>
</tr>
<tr>
<td>Software Testing</td>
<td>12</td>
</tr>
<tr>
<td>Supply Chain Principles</td>
<td>12</td>
</tr>
<tr>
<td>Unix Systems Administration and Programming (Linux)</td>
<td>12</td>
</tr>
<tr>
<td>User Interface Design</td>
<td>12</td>
</tr>
<tr>
<td>Web Database Applications</td>
<td>12</td>
</tr>
<tr>
<td>Web Development Technologies</td>
<td>12</td>
</tr>
<tr>
<td>Web Servers and Web Technology</td>
<td>12</td>
</tr>
<tr>
<td>Windows Systems Administration</td>
<td>12</td>
</tr>
</tbody>
</table>

Industry Connections
You will have the chance to undertake an industry-based project with an employer. RMIT University is committed to providing you with an education that strongly links formal learning with professional or vocational practice.

Career
On graduation you will have the knowledge and skills to solve complex social, economic and technical problems in an ICT context and be able to play leading roles in the ICT industry. Depending on your specialisation, possible careers include:

- **Big Data Management:** data analyst; data mining specialist; data centre manager; data quality engineer; knowledge engineer; big data tech lead; database specialist; research analyst; information architect; Hadoop architect/developer; business intelligence expert
- **Cloud Computing:** cloud solution architect; IaaS architect/developer; SaaS architect/developer; Hadoop specialist; cloud and big data specialist
- **Mobile Computing:** Android, iPhone, Windows mobile applications development; mobile games architect/developer; mobile architect/mobile software platform architect; mobile security expert; mobile application tech lead; IT infrastructure manager
- **Security:** information security specialist; information assurance professional; computer systems auditor; information consultant; information manager, with potential to progress to a role as a researcher in information security
- **Software Architecture:** business analyst; electronic commerce developer; internet professional; multimedia design; systems design; software design; systems management; applications and analyst programming; senior programmer; software engineer; systems programmer; system architect; IT architect; software architect; enterprise architect
- **Web Systems and Search Technology:** web information architect; web security analyst; web application architect/tech lead or developer; web content manager; webmaster

Professional Recognition
Students who complete this program are eligible to apply for professional level membership of the Australian Computer Society.

**www.acs.org.au**

Pathways
You may be eligible for advanced standing based on industry experience or academic results in your previous studies.

Entry Requirements
You must have one of the following:
- a bachelor degree with a minimum Grade Point Average (GPA) of 2.0 out of 4.0 in computer science; software, computer, network engineering; or information technology; or
- five years current relevant work experience in programming, web, application, database; software engineering; system, functional or business analysis; information, system or enterprise architecture; ICT management.
Master of Information Technology

Program Code  
MC208

Campus  
City campus

Duration  
2 years full-time (without advanced standing).

2016 Tuition Fee  
Full-Fee Places  
$23,040 per year full-time.

Please refer to Fees Explained on page 18.

How to Apply  
Apply directly to RMIT University at www.rmit.edu.au/programs/apply/direct.

Please refer to How to Apply on page 19.

Further Information  
School of Computer Science and Information Technology
Tel. +61 3 9925 2348
Email: csit@rmit.edu.au

Info Corner  
330 Swanston Street (cnr La Trobe Street)
Melbourne VIC 3000
Tel. +61 3 9925 2260

URL  
www.rmit.edu.au/programs/mc208

If you are creative and passionate about how cutting-edge technology can provide real-world solutions for diverse areas such as business, government, health and social services, this program offers you a range of options to develop your Information and Communication Technology (ICT) skills and knowledge.

The program caters to students with a major in IT as well as those with minimal programming experience. If you have no bachelor degree or background in the area, this is the quickest and best pathway to roles in the ICT industry.

You will learn fundamental, adaptable and technical skills that can be applied to a range of platforms, with future-proof knowledge in key areas such as algorithms and analysis, data mining, cloud computing and programming language design.

You will specialise in one of these industry-focused areas:
- big data management
- cloud computing
- mobile computing
- security
- software architecture
- web systems and search technology

You will also have the chance to apply for an industry project at the forefront of technological innovation.

Learning and Teaching  
RMIT is committed to providing students with an education that strongly links formal learning with workplace experience.

You will learn through a broad mix of study modes including lectures, tutorials, practical classes, project work and seminars using face-to-face, online and other flexible delivery mechanisms.

Program Structure  
The Master degree consists of 192 credit points. This includes four foundation level courses, advanced information technology core courses, four courses from your area of specialisation, one vocational elective and a software engineering project.

Choose one of the following specialisations:

**Big Data Management**

The world is facing an information overload thanks to the profusion of data from a diverse and growing range of new and evolving sources, including social media, mobile devices, cameras, and many more. While the technological capacity to store information doubles every three years, 2.5 quintillion bytes of data were created each day in 2012, producing collections of data sets that are becoming too large and complex for the capabilities of existing database management tools and traditional data processing applications.

With a specialisation in Big Data Management you will learn to manage the challenges of big data and exploit its potential – capture, curation, storage, search, sharing, transfer, analysis and visualisation. Analysis of big data can lead to key organisational insights such as identifying business trends and determining research quality, which in turn can be applied to diverse areas and projects such as delivering preventative healthcare, linking legal citations and combating crime.

**Cloud Computing**

Cloud computing allows computing tasks – running applications, storing data, and so on – to be carried out remotely.

The opportunity to exploit the potential economies of scale, implied efficiencies and massive savings available through such a system has given great impetus to cloud computing over recent years. Though this specialisation you will gain insights into many cloud computing systems, including Google AppEngine, Microsoft Azure, Yahoo’s Hadoop, Google’s MapReduce, Amazon EC2 and S3.

**Mobile Computing**

With mobile technologies facilitating advances in communications, finance, and information exchange and sharing, we’ve only just begun to explore the potential for this technology.

As a platform for creating key applications for industry, government and commerce, the demand for skill sets in mobile computing systems is sure to grow, especially given the growth in internet and web-based systems.

You will develop skills in the key areas in mobile computing including mobile software, mobile hardware, and mobile communication and security.

**Security**

At all levels, critical infrastructure relies upon information and database systems to store, process and exchange information. Organisations with diverse functions collect, process and store vast amounts of confidential information about employees, customers, products, research and more on computers and database systems.

Consequently, the security of this data, whether in banks or transport networks, telecommunications or utilities, has become vitally important. In this program you will develop technical and management skills to enhance security in computer systems. This is applicable to organisations whose functions are varied such as governments, the military, corporations, hospitals, financial institutions, universities or private businesses.

**Software Architecture**

Software architects oversee the high-level design and structure of the ICT systems that underpin the infrastructure of an organisation.

With the accelerating growth and evolution in the technologies available for developing software applications and systems, greater efficiency and flexibility will be highly sought in organisations of all sizes.

In this program you will develop greater understanding of the high-level design and structure of the ICT systems that underpin the infrastructure of an organisation. You will gain expertise in advanced software development techniques and technologies, exploiting modern development environments and languages, and balancing a range of usability issues when designing solutions.

**Web Systems and Search Technology**

The explosion of web resources and internet applications presents us with unprecedented choice and opportunity. However, searching and deciding on what to use, choose or lose is becoming trickier.

More than ever web users need more sophisticated search technologies and effective and efficient tools for locating, managing and exchanging all sorts of information, including documents, pictures and other structured and unstructured data.

In this program you will learn about the design and implementation of search engines, search engine optimisation, structured and unstructured information management and web services.

The following is an example of courses offered:

**Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Professional Development</td>
<td>12</td>
</tr>
<tr>
<td>Advanced Programming</td>
<td>12</td>
</tr>
<tr>
<td>Algorithms and Analysis</td>
<td>12</td>
</tr>
<tr>
<td>Database Concepts</td>
<td>12</td>
</tr>
<tr>
<td>Programming Fundamentals</td>
<td>12</td>
</tr>
<tr>
<td>Software Engineering Fundamentals</td>
<td>12</td>
</tr>
<tr>
<td>Software Engineering Postgraduate Project</td>
<td>36</td>
</tr>
<tr>
<td>Software Engineering Project Management</td>
<td>12</td>
</tr>
<tr>
<td>Usability Engineering</td>
<td>12</td>
</tr>
</tbody>
</table>

**Specialisation Elective Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Topics in Artificial Intelligence</td>
<td>12</td>
</tr>
<tr>
<td>Advanced Topics in Distributed Systems and Networks</td>
<td>12</td>
</tr>
<tr>
<td>Advanced Topics in Search Technology</td>
<td>12</td>
</tr>
<tr>
<td>Advanced Topics in Software Engineering</td>
<td>12</td>
</tr>
<tr>
<td>Big Data Infrastructure</td>
<td>12</td>
</tr>
<tr>
<td>Big Data Processing</td>
<td>12</td>
</tr>
<tr>
<td>Cloud Computing</td>
<td>12</td>
</tr>
<tr>
<td>Cloud Infrastructures</td>
<td>12</td>
</tr>
<tr>
<td>Cloud Security</td>
<td>12</td>
</tr>
<tr>
<td>Computer and Internet Forensics</td>
<td>12</td>
</tr>
<tr>
<td>Cryptography and Security</td>
<td>12</td>
</tr>
<tr>
<td>Data Mining</td>
<td>12</td>
</tr>
<tr>
<td>Database Systems</td>
<td>12</td>
</tr>
<tr>
<td>Enterprise Architecture</td>
<td>12</td>
</tr>
<tr>
<td>Foundations Distributed Computing</td>
<td>12</td>
</tr>
<tr>
<td>Games and Artificial Intelligence Techniques</td>
<td>12</td>
</tr>
<tr>
<td>Information Retrieval</td>
<td>12</td>
</tr>
<tr>
<td>Intelligent Web Systems</td>
<td>12</td>
</tr>
<tr>
<td>Internet and Intranet Document Engineering</td>
<td>12</td>
</tr>
<tr>
<td>iPhone Software Engineering</td>
<td>12</td>
</tr>
</tbody>
</table>
Big Data Management
Cloud Computing

A bachelor degree in any discipline; or
Mobile Computing
Security
Web Systems and Search Technology

minimum of five years relevant work experience

Depending on your specialisation, possible careers include:

— Cloud Computing: cloud solution architect; IaaS architect/developer; SaaS architect/developer; Hadoop specialist; cloud and big data specialist
— Mobile Computing: Android, iPhone, Windows mobile applications development; mobile games architect/developer; mobile architect/mobile software platform architect; mobile security expert; mobile application tech lead; IT infrastructure manager
— Security: information security specialist; information assurance professional; computer systems auditor; information consultant; information manager, with potential to progress to a role as a researcher in information security
— Software Architecture: business analyst; electronic commerce developer; internet professional; multimedia design; systems design; software design; systems management; applications and analyst programming; senior programmer; software engineer; systems programmer; system architect; IT architect; software architect; enterprise architect
— Web Systems and Search Technology: web information architect; web security analyst; web application architect/tech lead or developer; web content manager; webmaster

You must have one of the following:

Entry Requirements

— a bachelor degree in any discipline; or
— minimum of five years relevant work experience in programming (web, application, database); software engineering; system, functional or business analysis; information, system or enterprise architecture; ICT management; administration (network, systems); support (desktop, helpdesk, system); web design/media; business information systems or information systems.

Industry Connections

Our industry connections ensure that program content meets the requirements of employers and matches market trends.

You have the chance to apply to undertake an industry project. RMIT University is committed to providing you with an education that strongly links formal learning with professional or vocational practice.

Career

With continuing ICT skills shortages, you will be well placed to secure rewarding roles worldwide, whatever your specialisation. With transferrable theoretical and technical skills, you will be much sought-after by industry, with careers available in areas including cloud computing, web and mobile app development, eHealth, and emergency services and GPS technology.

Depending on your specialisation, possible careers include:

— Big Data Management: data analyst; data mining specialist; data centre manager; data quality engineer; knowledge engineer; big data tech lead; database specialist; research analyst; information architect; Hadoop architect/developer; business intelligence expert

Profile

“IT is a very important field, and the demand for qualified individuals continues to grow.

I chose RMIT as it has a good reputation for work-relevant education. The courses offered by RMIT combine professional knowledge with practical work.

“Industry projects form part of the course. I recently completed an industry project for Agru Australia to improve the efficiency of their office work.

“Another industry project I worked on involved building a back-end knowledge management system for a Mandarin restaurant. Both projects vastly improved my programming skills and helped me understand software project management.

“Through my studies I have gained advanced programming skills in multiple programming languages and environments, a comprehensive understanding of system architecture and the life cycle of IT projects.”

Yuhang Sun
Master of Information Technology
Enterprise Architecture

Enterprise architecture is about developing, managing and implementing ICT strategies for an organisation. Enterprise architecture is the strategy-driven framework which integrates the use of technology with business objectives.

An enterprise architect understands what the business needs, where it is headed, and develops technology solutions to match those needs.

Enterprise architects (EAs) are responsible for enhancing seamless collaboration across different areas of an organisation, and aligning IT directly to business and organisational goals. EAs provide specialised skills to meet a variety of business challenges, and these roles are increasingly in demand to ensure success in a competitive environment.

The enterprise architect’s ability to communicate, negotiate and influence senior business and IT people is a paramount skill.

The Master degree is designed for professionals with IT skills and experience in systems design or development. You will learn the skills to bridge the gaps between business goals and IT. You will also gain the skills needed in support of the latest IT trends – cloud applications, mobility, digital marketing and data analytics, which are in high demand.

The overall purpose of the Master degree is to develop the knowledge and skills essential for the role of enterprise architect. The program will enable you to:

- analyse an enterprise or organisation in order to understand its business strategy and its needs in terms of corresponding IT systems
- design a cost-effective enterprise IT strategy, with architectures and systems, drawing on an understanding of the business strategy, to assist in achieving the relevant business goals
- develop and maintain an enterprise architecture for an organisation, taking into account its strategic plan, current IT portfolio and key business and ICT industry drivers and technologies, including hardware and software standards
- communicate an enterprise architecture to the organisation and oversee its implementation, including how an enterprise architecture supports the organisation’s strategic IT objectives and plans to influence its business audiences, IT users and other stakeholders
- develop the required governance for successful enterprise architecture development and adoption within organisations to support business and technology strategy

You will build on your knowledge and experience in software requirements. You will also develop an understanding of systems architecture and change management to achieve a range of business objectives.

### Learning and Teaching

The program is designed to suit part-time students who have external commitments. Some courses will be offered in lecture mode in the evenings, others will be offered in intensive mode as workshops over a small number of full (weekend) days, others can be taken online.

Much of the learning will be in teams, involving group discussion and presentations, in order to foster development of essential skills such as effective communication and persuasion. These will take place in innovative learning spaces.

The program will promote a strong group experience, fostering networking opportunities between students, who will all have significant and senior-level industry experience. Lectures and presentations by external experts, including senior-level executives, will provide further opportunity for rich networking opportunities.

### Program Structure

#### Year One

**Core courses:**
- Enterprise Architecture
- Software Systems Architecture
- IT Governance and Change Management
- Enterprise Architecture Case Studies
- Strategic Planning for IT

**Elective choices:**
- Two Executive MBA electives
- One IT elective

#### Year Two

**Core courses:**
- People and Organisations
- Enterprise Architecture Capstone Project

**AND**
- One IT Elective

**Available MBA electives:**
- Change and Innovation
- Accounting for Business Decisions
- Creating Business Strategies
- Financial Management
- Entrepreneurship and New Venture Creation

**Available IT electives:**
- Big Data Infrastructures
- Big Data Processing
- Cloud Computing
- Cloud Infrastructures
- Cloud Security
- Data Mining
- Database Systems
- Information Retrieval
- Intelligent Web Systems
- Information Systems Risk Management
- Knowledge and Data Warehousing
- Mobile Application Development
- Object Oriented Software Design
- Project Management Leadership
- Secure Electronic Commerce
- Software Requirements Engineering
- Web Services
Industry Connections

RMIT’s School of Computer Science and Information Technology has substantial links with the ICT industry both within Australia and internationally. Employers and industry professionals are members of the School’s industry advisory committee. These representatives and others with enterprise architecture expertise have contributed to the development of the program. Their involvement ensures that the program remains relevant to your needs as a future graduate and that the program meets the needs of graduate employers.

A number of practising enterprise architects from technology companies and major enterprises (e.g. banks and government organisations) participate on an industry steering committee for this program and are contributing to the design of courses (subjects). Much of the teaching material will involve real industry case studies presented by senior architects, and there will be guest presentations by executives from major organisations.

Career

This master degree is designed for senior ICT professionals aspiring to become technology leaders. Graduates of the program will hold both deep IT technical skills and a strong understanding of how IT is used to address business challenges and the strategies of an organisation.

A successful graduate will have developed skills to be part of an enterprise architecture team in a major organisation, or to be a software/solutions architecture consultant, or to be the technology lead (e.g. CTO) of a small business or technology start up.

Professional Recognition

On completion of this program graduates can apply for professional membership of the Australian Computer Society in Australia: www.acs.org.au

Pathways

You may be eligible for advanced standing based on your previous studies.

Entry Requirements

— An Australian bachelor degree or equivalent from a recognised tertiary institution with a minimum credit average which equates to a Grade Point Average (GPA) of 2.0 (GMAT 560) in computer science; software, computer, network engineering; or information technology or similar discipline; or 5 years current relevant work experience in programming (web, application, database); software engineering; system, functional or business analysis; information, system or enterprise architecture; ICT management; and

— Evidence of significant relevant work experience with a minimum of 3 years management experience. The work experience criterion is a mandatory pre-requisite for the program.

Applicants should be able to provide evidence of some management experience, including management of staff and budget responsibility.

Applicants are required to submit current curriculum vitae and three contactable referees (additional information may be requested from the applicant).

International qualifications are assessed according to the Australian Qualifications Framework (AQF).
In an increasingly networked world, the securing of information and the assurance of this protection is essential to the continued success of organisations. The information security and assurance masters degree aims to equip graduates with the mathematical, technical and business tools to secure an organisation’s information systems.

Learning and Teaching
The program is offered through a flexible combination of lectures, tutorials and computer laboratory classes, work-simulated exercises and seminars from industry experts. State-of-the-art information security software used in the program will provide you with hands-on experience.

Program Structure
The Master degree contains a unique mix of technical, mathematical and business courses, aimed at a wholistic approach to the securing of information systems. Starting with an introduction to the myriad aspects of information security, and paired with insights from industry experts, the curriculum goes on to cover many topics, including risk management and cryptosystems, biometrics and ethical hacking. The two-semester project in second year allows you to gain in-depth knowledge and expertise in an information security topic of your choice. The Master degree also offers opportunities for internships in the information security industry.

The Master consists of 192 credit points. This incorporates the Graduate Diploma (96 credit points). The following is an example of courses offered:

<table>
<thead>
<tr>
<th>Stage A</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case Studies in Information Security</td>
<td>12</td>
</tr>
<tr>
<td>Discrete Mathematics</td>
<td>12</td>
</tr>
<tr>
<td>Introduction to Information Security</td>
<td>12</td>
</tr>
<tr>
<td>Web Servers and Web Technology</td>
<td>12</td>
</tr>
<tr>
<td>Exit point for the Graduate Certificate</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Stage B</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding for Reliable Communications</td>
<td>12</td>
</tr>
<tr>
<td>Information Systems Risk Management</td>
<td>12</td>
</tr>
<tr>
<td>Exit point for the Graduate Diploma</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Stage C</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryptography and Security</td>
<td>12</td>
</tr>
<tr>
<td>Industry Awareness Project</td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stage D</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Topics in Cryptography</td>
<td>12</td>
</tr>
<tr>
<td>Industry Linkage Project</td>
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</tbody>
</table>

Two electives are required at stages B, C and D:

**Elective Courses**

<table>
<thead>
<tr>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>Algebra for Information Security</td>
</tr>
<tr>
<td>Computer and Internet Forensics</td>
</tr>
<tr>
<td>Data Communication and Net-Centric Computing</td>
</tr>
<tr>
<td>Database Concepts</td>
</tr>
<tr>
<td>Information Systems Security</td>
</tr>
<tr>
<td>Information Technology Strategy</td>
</tr>
<tr>
<td>Information Theory for Secure Communications</td>
</tr>
<tr>
<td>Practical Security</td>
</tr>
<tr>
<td>Smartcard Cryptosystems</td>
</tr>
</tbody>
</table>

Industry Connections

Internships
Students in the Master of Applied Science (Information Security and Assurance) by coursework degree have internship opportunities with companies such as PwC and ANZ. Internships with companies such as Biarri and Assurance.com are also available through AMSI for postgraduate students.

Career
The graduates of this program will fill many roles in the information security industry, ranging from penetration testers and IT risk analysts to security managers and forensic analysts, and from security auditors to network security engineers.

Pathways
You may be eligible for advanced standing based on your previous studies.

Entry Requirements

- An Australian bachelor degree with a minimum Grade Point Average of 2.0 out of 4.0 with award title including computer, IT, software, electrical, electronics, communications, mathematics, physics or equivalent; or
- An Australian bachelor degree with a Grade Point Average between 1.5 and 2.0 out of 4.0 in a scientific/engineering/technical field with evidence of at least three years work experience in the field of IT/Information security or equivalent.

International qualifications are assessed according to the Australian Qualifications Framework (AQF).
The tuition fees vary according to each program and are adjusted on an annual basis. Fees for 2016 are listed in this brochure or visit www.rmit.edu.au/programs/fees from October 2015. RMIT reserves the right to adjust fees for full-fee places on an annual basis by an amount that will not exceed 7.5% each year (subject to rounding). For higher education fees, tuition fees are rounded up to the nearest $10 per credit point increment. The absolute fee increase may exceed 7.5%.

<table>
<thead>
<tr>
<th>Program Code</th>
<th>Award Title</th>
<th>Full Time Duration</th>
<th>2016 Annual Program Fee</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC099</td>
<td>Graduate Certificate in Business Information Technology</td>
<td>0.5 years</td>
<td>$12,480</td>
<td>6</td>
</tr>
<tr>
<td>MC200</td>
<td>Master of Business Information Technology</td>
<td>2 years full-time</td>
<td>$24,960</td>
<td>7</td>
</tr>
<tr>
<td>BH013</td>
<td>Bachelor of Computer Science (Honours)</td>
<td>1 year full-time</td>
<td>$25,920*</td>
<td>8</td>
</tr>
<tr>
<td>MC061</td>
<td>Master of Computer Science</td>
<td>1.5 years full-time</td>
<td>$23,040</td>
<td>10</td>
</tr>
<tr>
<td>MC208</td>
<td>Master of Information Technology</td>
<td>2 years full-time</td>
<td>$23,040</td>
<td>12</td>
</tr>
<tr>
<td>MC152</td>
<td>Master of Technology (Enterprise Architecture)</td>
<td>1.5 years full-time</td>
<td>$23,040</td>
<td>14</td>
</tr>
<tr>
<td>MC159</td>
<td>Master of Applied Science (Information Security and Assurance)</td>
<td>2 years full-time</td>
<td>$20,160</td>
<td>15</td>
</tr>
</tbody>
</table>

Fee listed is based on a full-time study load. For details refer to Fees Explained on page 18.

* Commonwealth supported places are available.

The tuition fees vary according to each program and are adjusted on an annual basis. Fees for 2016 are listed in this brochure or visit www.rmit.edu.au/programs/fees from October 2015. RMIT reserves the right to adjust fees for full-fee places on an annual basis by an amount that will not exceed 7.5% each year (subject to rounding). For higher education fees, tuition fees are rounded up to the nearest $10 per credit point increment. The absolute fee increase may exceed 7.5%.

Profile

“As part of my bachelor degree I completed an introductory course in computer security and found it very interesting. In addition, my lecturer was very passionate about the subject and I believe his enthusiasm was infectious!

“When I was deciding where to study, I browsed through a list of Australian universities that were offering computing courses, paying particular attention to program content and structure. The program outline and course structure for RMIT’s Master of Applied Science (Information Security and Assurance) program appealed to me the most.

“When I have completed my masters, I will return to Jamaica and resume my job, applying the knowledge I have acquired from the degree. I loved my role back home and I plan to re-join the strategic management division, with a view to moving into information systems in the future.

“I’m looking forward to working with my colleagues to discover how we can enhance and improve the organisation’s security infrastructure and make an impact on Jamaica’s information security as a whole.”

Farrah Williams
Master of Applied Science (Information Security and Assurance)
**Postgraduate Studies by Coursework**
What you pay will depend on whether you are offered a Commonwealth supported place (CSP) or a full-fee place. Financial assistance is available to eligible students regardless of the type of place you enrol in.

**Commonwealth Supported Places (CSP)**
A Commonwealth supported place is a place at university where the tuition fee is jointly paid by you and the Australian Government. Your share of the fee (student contribution) is set by the government and is determined by the discipline areas (bands) of your individual enrolled courses, not the overall program. For more information about what fees you will pay in 2016 visit www.rmit.edu.au/programs/fees.

The Australian Government has announced changes to the funding of CSPs. These may affect the proportion of the fee paid by student contribution from 2016. For more information visit www.rmit.edu.au/programs/fees and www.studyassist.gov.au.

**Full-Fee Places**
Students in full-fee places are required to pay a tuition fee that covers the full tuition costs of their program. The tuition fees vary according to each program and are adjusted on an annual basis.

Financial assistance may be available through the FEE-HELP scheme (see right for details).

Only students who are Australian citizens, New Zealand citizens or hold an Australian Permanent Resident Visa are eligible for a domestic full-fee place. Students who do not meet these citizenship and residency requirements may be offered a place as an onshore international student.

Fees for 2016 are listed under each program in this booklet or visit www.rmit.edu.au/programs/fees from October 2015.

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**Honours Degrees**
All honours degrees have Commonwealth supported places available. See coursework degrees.

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**Postgraduate Degrees by Research**
If you are an Australian citizen, Australian permanent resident or New Zealand citizen you may be eligible for a Research Training Scheme (RTS) place where your tuition costs are funded by the Commonwealth Government and you therefore have full exemption from tuition fees.

Acceptance in an RTS place is very competitive and places are granted on the condition that you meet progress requirements and complete within the allotted time for your program and your status as a part-time or full-time candidate.

www.rmit.edu.au/graduateresearch

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**Other Fees and Expenses**
In addition to tuition fees, you will be charged a student services and amenities fee (SSAF), which is indexed annually. Eligible students can defer payment of the fee through SA-HELP. For more information visit www.rmit.edu.au/programs/fees/ssaf.

You may also be required to purchase items related to your program, including field trips, specified textbooks and equipment. These expenses vary from program to program. For more information visit www.rmit.edu.au/programs/fees.

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**Financial Assistance**

**Scholarships**
Before you let financial constraints or living arrangements get in the way of your decision to study, find out about the range of RMIT scholarships available.

Coursework Scholarships Office
Tel. +61 3 9925 2811
Email: scholarships@rmit.edu.au
www.rmit.edu.au/scholarships

HECS-HELP
HECS-HELP assists eligible students in a Commonwealth supported place to pay their student contribution. To learn more about HECS-HELP visit www.rmit.edu.au/programs/fees/helploans/hecs-help.

FEE-HELP
FEE-HELP is an optional loan scheme that assists eligible students to pay all or part of their tuition fees. To learn more about FEE-HELP visit www.rmit.edu.au/programs/fees/helploans/fee-help.

**Income Support**
The Commonwealth Government has approved a number of RMIT University postgraduate programs for student income support payments. The list of approved programs is available at www.rmit.edu.au/programs/fees/highered/masters.

To check your eligibility for student income support or rent assistance, please contact Centrelink or visit www.humanservices.gov.au.

**Income Tax Deductions**
Students may be eligible to apply for income tax deductions relating to the education expenses that are linked to their employment. The Australian Taxation Office (ATO) website at www.ato.gov.au provides guidance on the taxation treatment of your fees.
Postgraduate Studies by Coursework and Honours Degrees

Entry Requirements
To be considered for admission you must meet the RMIT University entry requirements as well as any program entry requirements. Entry requirements for each program can be accessed via www.rmit.edu.au/study-with-us

Direct Application
Apply online at www.rmit.edu.au/programs/apply/direct.
Semester 1 timely applications for coursework programs open on Open Day (9 August) and are due by 10 November.*
Semester 2 (Midyear) applications open 1 May and are due by 31 May.*
*Applications will continue to be accepted until all places have been filled. You are encouraged to lodge your application early.

Postgraduate Degrees by Research

Entry Requirements
To be considered for admission you must meet RMIT University entry requirements as well as any program entry requirements. Refer to the program URL on page 4 for entry requirements before applying. For more information visit www.rmit.edu.au/programs/research.

Finding a Supervisor
Before you apply, you need to find qualified supervisors with similar research interests to you and discuss a research proposal with them. It is recommended that you start by contacting the Higher Degrees by Research Coordinator in the academic school to which you are applying, as they can direct you to appropriate potential supervisors. The supervisors will read and comment on your proposal and indicate if they are willing to supervise you. Your research proposal must be included in your application.
For more information about finding a supervisor visit www.rmit.edu.au/research/search-supervisors.

Application Process
Application for candidature involves three steps:
1. Find a program and confirm eligibility.
2. Seek academic advice and secure the support of qualified supervisor(s).
3. Complete and submit the application form and supporting documents.
For detailed information visit www.rmit.edu.au/programs/apply/research or contact the School of Graduate Research at www.rmit.edu.au/graduateresearch.

Application Timelines
Applications to higher degree programs are accepted all year round. There are two scholarship rounds.
Applications for 2016 scholarships are open from 1 July until 31 October 2015. For more information visit http://www.rmit.edu.au/research/phds-and-other-research-degrees/scholarships-and-support/.

Further Information
Info Corner
330 Swanston Street (cnr La Trobe Street)
Melbourne VIC 3000
Tel. +61 3 9925 2260
Why Postgrad?

**A Competitive Edge**
Employment opportunities increase by 85% after completing a postgraduate qualification.*

**Increase Your Earnings**
On average, a postgraduate qualification will up your long-term earnings by more than 15%.

**Turn Career Dreams into Reality**
Almost 50% of people feel like they are in the wrong career. A postgraduate qualification will empower you to follow your passion.

Why RMIT?

1. **Take your career to the next level**
   RMIT was ranked 79th in the world by global employers for graduate employability in the 2014 QS World University Rankings.

2. **Flexibility that works for you**
   40% of RMIT’s 11,700 postgraduate students study part-time with many flexible learning options.

3. **Broaden your horizons**
   RMIT offers exchange opportunities at over 200 institutions across 41 countries.

4. **Open doors to worldwide opportunities**
   RMIT has over 200 research collaborations with overseas partners and industry. RMIT graduates are employed in more than 100 countries around the world.

5. **Transform the future through research**
   RMIT is ranked as one of the top five Australian universities for excellence in key research disciplines, and was awarded more than $19 million in research funding in 2014.

6. **Education that packs a punch for your prospects**
   RMIT is ranked as one of the world’s top 35 universities for key subject areas in the 2015 QS World University Rankings.

The information in this guide is specific to Australian and New Zealand citizens and permanent residents of Australia.

RMIT University
Info Corner
330 Swanston Street (cnr La Trobe Street)
Melbourne VIC 3000
Tel. +61 3 9925 2260
Email: study@rmit.edu.au
www.rmit.edu.au

Disclaimer: The information contained in this guide is subject to change without notice. It is the responsibility of the applicant to check and confirm all general and specific program information prior to lodging an application for enrolment. For the most up-to-date program information, please refer to the RMIT University website. Visit www.rmit.edu.au. This guide is designed for Australian and New Zealand citizens and permanent residents of Australia. Vocational education programs are delivered with Victorian and Commonwealth funding for eligible students. RMIT University CRICOS Provider Code: 00122A, RTO Code: 3046.