University Diploma in Information Technology

International Entry requirements
To be accepted into the program you must have successfully completed senior high school with the required grades. You must also have relevant vocational experience.

Minimum English requirements
Students must meet the English proficiency requirements.

| IELTS (International English Language Testing System) |
|-----------------|-----------------|-----------------|
| speaking        | 5.0             | writing         | 5.0             |
|                  |                  | reading         | 5.0             |
|                  |                  | listening       | 5.0             |
|                  |                  | overall         | 5.5             |

QUT International College
International students may upgrade to the QUT Bachelor of Information Technology through QUT International College at our Kelvin Grove campus.

The University Diploma in Information Technology is equivalent to two semesters of the Bachelor of Information Technology degree with a total of 96 credit points (48 standard credit points for a full-time semester).

In the University Diploma program, students study six degree core units as well as two English language units that have been designed to support the other core units.

Progression to the Bachelor of Information Technology
Students who successfully complete these eight units with a grade point average of 4 (on a 7-point scale) and obtain a grade of at least 4 in Professional Communication 2 are given two semesters full-time advanced standing towards their degree and are guaranteed a place in the Bachelor of Information Technology.

Students who complete the University Diploma in Information Technology are also eligible for 96 credit points towards the Bachelor of Corporate Systems Management and Bachelor of Games and Interactive Entertainment.

International Course structure
University Diploma in Information Technology units
- Databases
- Building IT Systems
- Emerging Technology
- Industry Insights
- Programming
- Networks
- Professional Communication 1
- Professional Communication 2

Extension English Sessions
For first-semester students, these sessions take place during weeks two to eight. Other QUTIC students in University Entry Programs may join the sessions, if their timetable permits. The aims of Extension English are to improve the student’s English language proficiency in speaking, listening and overall writing ability in a relaxed environment.

In addition to developing these language skills, students have the opportunity to discuss cultural issues and ask questions about studying at university.
# Bachelor of Engineering (Civil)

<table>
<thead>
<tr>
<th>Handbook</th>
<th>Minimum english requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year</td>
<td>2012</td>
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<tr>
<td>QUT code</td>
<td>CE44</td>
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<tr>
<td>CRICOS</td>
<td>037544G</td>
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<tr>
<td>Duration (full-time)</td>
<td>4 years</td>
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<tr>
<td>Rank</td>
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<td>OP Guarantee</td>
<td>Yes</td>
</tr>
<tr>
<td>Campus</td>
<td>Gardens Point</td>
</tr>
<tr>
<td>Domestic fee (indicative)</td>
<td>2011: CSP $3,878 per semester</td>
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<tr>
<td>International fee (indicative)</td>
<td>2011: $12,375 per semester</td>
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<tr>
<td>Total credit points</td>
<td>384</td>
</tr>
<tr>
<td>Credit points full-time sem.</td>
<td>48</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Professor Chris Eves</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Dr Fiona Cheung</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:sef.enquiry@qut.edu.au">sef.enquiry@qut.edu.au</a></td>
</tr>
</tbody>
</table>

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>6.0</td>
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<tr>
<td>writing</td>
<td>6.0</td>
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<tr>
<td>reading</td>
<td>6.0</td>
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<tr>
<td>listening</td>
<td>6.0</td>
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<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Special Note**

This course has been discontinued. Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

**Further Information**

Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au
Minimum English Requirements

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
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<tbody>
<tr>
<td>speaking</td>
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</tr>
<tr>
<td>listening</td>
<td>6.0</td>
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<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Special Note

This course has been discontinued. Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

Further Information

Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au
Bachelor of Property Economics

Minimum English Requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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<tbody>
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<td>speaking 6.0</td>
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<td>writing 6.0</td>
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<td>reading 6.0</td>
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<tr>
<td>listening 6.0</td>
</tr>
<tr>
<td>overall 6.5</td>
</tr>
</tbody>
</table>

Special Note
This course has been discontinued. Any remaining students should seek advice from the Course Leader regarding their remaining course program.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au
### Bachelor of Engineering (Electrical and Computer Engineering)

<table>
<thead>
<tr>
<th>Handbook</th>
<th>Minimum english requirements</th>
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</thead>
<tbody>
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<td><strong>Year</strong></td>
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<tr>
<td><strong>QUT code</strong></td>
<td>EE41</td>
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<tr>
<td><strong>CRICOS</strong></td>
<td>003490G</td>
</tr>
<tr>
<td><strong>Duration (full-time)</strong></td>
<td>4 years</td>
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<tr>
<td><strong>Rank</strong></td>
<td>80</td>
</tr>
<tr>
<td><strong>OP Guarantee</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Campus</strong></td>
<td>Gardens Point</td>
</tr>
<tr>
<td><strong>Total credit points</strong></td>
<td>384</td>
</tr>
<tr>
<td><strong>Credit points full-time sem.</strong></td>
<td>48</td>
</tr>
<tr>
<td><strong>Course Coordinator</strong></td>
<td>Dr R. Mahalinga-Iyer</td>
</tr>
<tr>
<td><strong>Discipline Coordinator</strong></td>
<td>Dr Bouchra Senadji</td>
</tr>
</tbody>
</table>

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
<tbody>
<tr>
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<td>listening</td>
<td>6.0</td>
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<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Special Note**

This course has been discontinued. Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

**Further Information**

Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=EE41&courseID=19770. CRICOS No.00213J
Bachelor of Engineering

Year
2012
QUT code
EN40
CRICOS
056529D
Duration (full-time)
4 years
OP
11
Rank
78
OP Guarantee
Yes
Campus
Gardens Point
Domestic fee (indicative)
2012: CSP $3,804 per Semester
International fee (indicative)
Refer to majors
Total credit points
384
Credit points full-time sem.
48
Start months
February, July
Int. Start Months
February, July
Deferment
You can defer your offer and postpone the start of your course for one year
Course Coordinator
Dr R. Mahalinga-Iyer

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA). Recommended study: Chemistry, Maths C and Physics.

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Recommended study: Chemistry, Maths C and Physics.

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>Speaking</th>
<th>Writing</th>
<th>Reading</th>
<th>Listening</th>
<th>Overall</th>
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<tbody>
<tr>
<td>speaking</td>
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<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Professional Recognition
Full professional accreditation from Engineers Australia has been given for all primary majors in this course. In addition, Software Engineering also has full professional accreditation with the Australian Computer Society.

Second Majors
Depending on your choice of primary major, you may have the opportunity to undertake a second major or two minors. A second major is an established set of eight units (96 credit points) in the same discipline. A minor is an established set of four units (48 credit points) in the same discipline or from anywhere in the University. You will select your primary major, second major and/or minors after the completion of your first year.

Special Course Requirements
A candidate for the degree of Bachelor of Engineering must obtain at least 60 days of industrial experience/practice in an engineering environment as approved by the course coordinator.

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

Sample Structure
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1 - Semester 1</td>
<td></td>
</tr>
<tr>
<td>ENB100</td>
<td>Engineering and Sustainability</td>
</tr>
<tr>
<td>ENB110</td>
<td>Engineering Statics and Materials</td>
</tr>
<tr>
<td>ENB130</td>
<td>Mechanical and Thermal Energy</td>
</tr>
<tr>
<td>MAB125</td>
<td>Foundations of Engineering Mathematics</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MAB126</td>
<td>Mathematics for Engineering 1</td>
</tr>
<tr>
<td>Year 1 - Semester 2</td>
<td></td>
</tr>
<tr>
<td>ENB120</td>
<td>Electrical Energy and Measurements</td>
</tr>
<tr>
<td>ENB150</td>
<td>Introducing Engineering Design</td>
</tr>
<tr>
<td>ENB200</td>
<td>Introducing Engineering Systems</td>
</tr>
<tr>
<td>MAB126</td>
<td>Mathematics for Engineering 1</td>
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<td>OR</td>
<td></td>
</tr>
<tr>
<td>MAB127</td>
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</table>
**Bachelor of Engineering (Aerospace Avionics)**

**Handbook**

<table>
<thead>
<tr>
<th><strong>Year</strong></th>
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<tbody>
<tr>
<td><strong>QUT code</strong></td>
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<tr>
<td><strong>CRICOS</strong></td>
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<tr>
<td><strong>Duration (full-time)</strong></td>
<td>4 years</td>
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<td><strong>OP</strong></td>
<td>11</td>
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<tr>
<td><strong>Rank</strong></td>
<td>78</td>
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<tr>
<td><strong>OP Guarantee</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Campus</strong></td>
<td>Gardens Point</td>
</tr>
<tr>
<td><strong>Domestic fee (indicative)</strong></td>
<td>2012: CSP $3,804 per Semester</td>
</tr>
<tr>
<td><strong>International fee (indicative)</strong></td>
<td>2012: $12500 per Semester</td>
</tr>
<tr>
<td><strong>Total credit points</strong></td>
<td>384</td>
</tr>
<tr>
<td><strong>Credit points full-time sem.</strong></td>
<td>48</td>
</tr>
<tr>
<td><strong>Start months</strong></td>
<td>February, July</td>
</tr>
<tr>
<td><strong>Int. Start Months</strong></td>
<td>February, July</td>
</tr>
<tr>
<td><strong>Deferment</strong></td>
<td>You can defer your offer and postpone the start of your course for one year</td>
</tr>
<tr>
<td><strong>Course Coordinator</strong></td>
<td>Dr R.Mahalinga-Iyer</td>
</tr>
<tr>
<td><strong>Discipline Coordinator</strong></td>
<td>Dr Jason Ford</td>
</tr>
</tbody>
</table>

**Domestic Assumed knowledge**
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA). Recommended study: Chemistry, Maths C and Physics.

**International Subject prerequisites**
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Recommended study: Chemistry, Maths C and Physics.

**Minimum english requirements**
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>speaking</td>
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<tr>
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<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.0</td>
</tr>
</tbody>
</table>

**Professional Recognition**
Full professional accreditation from Engineers Australia has been given for this course.

**Special Course Requirements**
Students must complete 60 days approved industrial experience in an engineering environment, including 10 days specialist experience in the avionics industry as part of the Work Integrated Learning unit.

**International Student Entry**
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

**Further Information**
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

**Domestic Course structure**

**Work Integrated Learning unit**
Students must complete 60 days approved industrial experience in an engineering environment, including 10 days specialist experience in the avionics industry as part of the Work Integrated Learning unit.

**Your course**

**Year 1**
Common first-year units include the foundation of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

**Year 2**
A solid grounding in the basic terminology and work practices commonly employed in the aerospace industry provide an understanding of air, spacecraft flight control principles and safety aspects of aviation. Exciting wind tunnel tests and understanding of Mach number effects, fundamentals of aircraft performance, estimating range and endurance, take off and landing calculations and light envelopes also feature.

**Year 3**
Emphasis on the flight control systems of modern aircraft, which is one of the primary subsystems. You are introduced to methods for modelling the dynamic behaviour of aircraft, missiles and spacecraft, and criteria for stability. Systems engineering methodologies and techniques are applied to aerospace engineering projects such as design and operation of a fully autonomous micro air vehicle or rocket.

**Year 4**
Advanced concepts such as spacecraft guidance and navigation, orbit and altitude determination, dynamics for low earth satellites and also the dynamics of rocket ascent trajectories. Relevant RF and applied electromagnetic aerospace radio radar systems and navigation systems for aircraft are explored. You undertake a one-year project and work integrated learning.
International Course structure

Work Integrated Learning unit
Students must complete 60 days approved industrial experience in an engineering environment, including 10 days specialist experience in the avionics industry as part of the Work Integrated Learning unit.

Your course

Year 1
Common first-year units include the foundation of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

Year 2
A solid grounding in the basic terminology and work practices commonly employed in the aerospace industry provide an understanding of air, spacecraft flight control principles and safety aspects of aviation. Exciting wind tunnel tests and understanding of Mach number effects, fundamentals of aircraft performance, estimating range and endurance, take off and landing calculations and light envelopes also feature.

Year 3
Emphasis on the flight control systems of modern aircraft, which is one of the primary subsystems. You are introduced to methods for modelling the dynamic behaviour of aircraft, missiles and spacecraft, and criteria for stability. Systems engineering methodologies and techniques are applied to aerospace engineering projects such as design and operation of a fully autonomous micro air vehicle or rocket.

Year 4
Advanced concepts such as spacecraft guidance and navigation, orbit and altitude determination, dynamics for low earth satellites and also the dynamics of rocket ascent trajectories. Relevant RF and applied electromagnetic aerospace radio radar systems and navigation systems for aircraft are explored. You undertake a one-year project and work integrated learning.

Sample Structure

Semesters

- Year 2 - Semester 2
- Year 3 - Semester 1
- Year 3 - Semester 2
- Year 4 - Semester 1
- Year 4 - Semester 2
- Aerospace Avionics Selectives

<table>
<thead>
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<tbody>
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<tr>
<td>ENB100</td>
<td>Engineering and Sustainability</td>
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<td>OR</td>
<td></td>
</tr>
<tr>
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<td>Mathematics for Engineering 1</td>
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<td>MAB126</td>
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<tr>
<td>OR</td>
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<td>MAB127</td>
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<td>OR</td>
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<table>
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<table>
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<th>Year 3 - Semester 2</th>
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<tbody>
<tr>
<td>ENB343</td>
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</table>
**Domestic Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA). Recommended study: Chemistry, Maths C and Physics.

**International Subject prerequisites**

- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Recommended study: Chemistry, Maths C and Physics.

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>Value</th>
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<tbody>
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<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.0</td>
</tr>
</tbody>
</table>

**Professional Recognition**

Full professional accreditation from Engineers Australia has been given for this course.

**Special Course Requirements**

A candidate for the degree of Bachelor of Engineering (Civil and Construction) must complete at least 60 days of industrial experience/practice in an engineering construction environment as part of the Work Integrated Learning unit.

**Second Majors and Minors**

You will have the opportunity to undertake either a 2nd major or two minors (see options below).

**CIVIL AND CONSTRUCTION ENGINEERING Second Major and Minor Options**

- **Second Major:**
  - Civil Infrastructure
  - Civil and Construction Engineering minor plus
  - A minor from anywhere in QUT that is outside of the course. (see University Wide Minors)

  Please note: The Work Integrated Learning unit (BEB701) and the project unit (BEB801) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

**International Student Entry**

International students who are interested in mid-year entry should consult the Faculty of Built Environment and Engineering Student Services section regarding the course structure to be undertaken.

International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

**Further Information**

Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

**Domestic Course structure**

**Work Integrated Learning unit**

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

**Your course**

**Year 1**

Common first-year units include the foundations of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

**Year 2**

Apply knowledge of fundamental engineering science in design areas of timber and concrete construction. Explore theoretical aspects of geotechnical and materials engineering. Your theoretical understanding is reinforced by practical experience in our laboratories. Develop
skills in construction administration and project management. Engineering statistics mathematical skills also help your understanding of all aspects of engineering design.

**Year 3**
Increase your knowledge and skills in geotechnical engineering, construction management, law and other related construction practices. Explore steel construction. Continue to develop communication and organisational skills by writing reports, presenting seminars and working in small groups. Choose a second study area.

**Year 4**
Build on your third year to complete your second study area. Undertake a major project which will bring together all your previously mastered skills, and advance your communication skills in report writing and seminar presentation. You also complete your work integrated learning.

### Second majors and minors
You will have the opportunity to undertake either a 2nd major or two minors (see options below).

Please refer to the rules before making your selection.

Electrical engineering second major and minor options

Second major:
- Civil Infrastructure

Minors:
- Civil and Construction Engineering minor

Plus:
- A minor from anywhere in QUT that is outside of the course.

Please note: The Work Integrated Learning unit (BE8701) and the project unit (BE8801) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

### International Course structure

#### Work Integrated Learning unit
Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

### Your course

#### Year 1
Common first-year units include the foundations of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

#### Year 2
Apply knowledge of fundamental engineering science in design areas of timber and concrete construction. Explore theoretical aspects of geotechnical and materials engineering. Your theoretical understanding is reinforced by practical experience in our laboratories. Develop skills in construction administration and project management. Engineering statistics mathematical skills also help your understanding of all aspects of engineering design.

#### Year 3
Increase your knowledge and skills in geotechnical engineering, construction management, law and other related construction practices. Explore steel construction. Continue to develop communication and organisational skills by writing reports, presenting seminars and working in small groups. Choose a second study area.

#### Year 4
Build on your third year to complete your second study area. Undertake a major project which will bring together all your previously mastered skills, and advance your communication skills in report writing and seminar presentation. You also complete your work integrated learning.

### Second majors and minors
You will have the opportunity to undertake either a 2nd major or two minors (see options below).

Please refer to the rules before making your selection.

Electrical engineering second major and minor options

Second major:
- Civil Infrastructure

Minors:
- Civil and Construction Engineering minor

Plus:
- A minor from anywhere in QUT that is outside of the course.

Please note: The Work Integrated Learning unit (BE8701) and the project unit (BE8801) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

#### Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
<th>Code</th>
<th>Title</th>
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<tr>
<td><strong>Year 1 - Semester 1</strong></td>
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<tr>
<td>ENB100</td>
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<td>Structural Engineering 1</td>
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Bachelor of Engineering (Civil and Construction)

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<td>UDB312</td>
<td>Contract Administration</td>
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<td>ENB371</td>
<td>Geotechnical Engineering 2</td>
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<td>ENB373</td>
<td>Design and Construction of Steel Structures</td>
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<tr>
<td>BEB801</td>
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<td>Design of Concrete Structures and Foundations</td>
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<tr>
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<td>Second Major/Minor unit</td>
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<table>
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<td>ENB481</td>
<td>Civil Engineering Project Management</td>
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<td>Second Major/Minor unit</td>
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<tr>
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<tr>
<td>Civil and Construction Engineering Selectives</td>
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<tr>
<td>BEB802</td>
<td>Project 2</td>
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<tr>
<td>ENB376</td>
<td>Transport Engineering</td>
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<td>Facade Engineering</td>
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<td>Civil Engineering Project Management</td>
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<td>Second Major/Minor unit</td>
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<tr>
<td>Civil and Construction Engineering Selectives</td>
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<tr>
<td>BEB802</td>
<td>Project 2</td>
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<tr>
<td>ENB376</td>
<td>Transport Engineering</td>
</tr>
<tr>
<td>ENB477</td>
<td>Facade Engineering</td>
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</table>
Bachelor of Engineering (Civil and Environmental)

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA). Recommended study: Chemistry, Maths C and Physics.

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Recommended study: Chemistry, Maths C and Physics.

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
- speaking 6.0
- writing 6.0
- reading 6.0
- listening 6.0
- overall 6.0

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

Special Course Requirements
A candidate for the degree of Bachelor of Engineering (Civil and Environmental) must obtain at least 60 days of industrial experience/practice in an engineering environment as part of the Work Integrated Learning unit.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Domestic Course structure
Work Integrated Learning unit
Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

Your course
Year 1
Common first-year units include the foundations of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

Year 2
Apply your knowledge of fundamental engineering science in design areas of concrete construction. Explore the theoretical aspects of geotechnical, fluids and sustainable engineering. Your theoretical understanding is reinforced by practical experience in our laboratories. Engineering statistics mathematical skills also help your understanding of all aspects of engineering design.

Year 3
Increase your knowledge and skills in geotechnical and water engineering, and explore steel construction, highway and transport engineering. You are also introduced to environmental studies relating to population, resource management and environmental law. Continue to develop communication and organisational skills by writing reports, presenting seminars and working in small groups.

Year 4
Building on your third year by completing a major project which may be industry based will bring together all your previously mastered skills, and advance your communication skills in report writing and seminar presentation. You also complete work integrated learning. There are also additional electives to choose from.
Bachelor of Engineering (Civil and Environmental)

International Course structure

Work Integrated Learning unit

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

Your course

Year 1

Common first-year units include the foundations of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

Year 2

Apply your knowledge of fundamental engineering science in design areas of concrete construction. Explore the theoretical aspects of geotechnical, fluids and sustainable engineering. Your theoretical understanding is reinforced by practical experience in our laboratories. Engineering statistics mathematical skills also help your understanding of all aspects of engineering design.

Year 3

Increase your knowledge and skills in geotechnical and water engineering, and explore steel construction, highway and transport engineering. You are also introduced to environmental studies relating to population, resource management and environmental law. Continue to develop communication and organisational skills by writing reports, presenting seminars and working in small groups.

Year 4

Building on your third year by completing a major project which may be industry based will bring together all your previously mastered skills, and advance your communication skills in report writing and seminar presentation. You also complete work integrated learning. There are also additional electives to choose from.

Sample Structure

Year 1 - Semester 1
- ENB100 - Engineering and Sustainability
- ENB110 - Engineering Statics and Materials
- ENB130 - Mechanical and Thermal Energy
- MAB125 - Foundations of Engineering Mathematics

OR
- MAB126 - Mathematics for Engineering 1

Year 1 - Semester 2
- ENB120 - Electrical Energy and Measurements
- ENB150 - Introducing Engineering Design
- ENB200 - Introducing Engineering Systems
- MAB126 - Mathematics for Engineering 1

OR
- MAB127 - Mathematics for Engineering 2

Year 2 - Semester 1
- ENB270 - Engineering Mechanics of Materials
- ENB272 - Geotechnical Engineering 1
- ENB273 - Civil Materials
- MAB233 - Engineering Mathematics 3

Year 2 - Semester 2
- ENB274 - Design of Environmentally Sustainable Systems
- ENB275 - Project Engineering 1
- ENB276 - Structural Engineering 1
- ENB280 - Hydraulic Engineering

Year 3 - Semester 1
- ENB372 - Design and Planning of Highways
- ENB378 - Water Engineering
- ENB383 - Environmental Resource Management
- NQB302 - Earth Surface Systems

OR
- NQB314 - Sedimentary Geology

Year 3 - Semester 2
- ENB371 - Geotechnical Engineering 2
- ENB376 - Transport Engineering
- ENB380 - Environmental Law and Assessment

Selective

Year 4 - Semester 1
- BEB801 - Project 1
- PQB360 - Global Energy Balance and Climate Change
- UDB266 - Planning Processes and Consultations

Year 4 - Semester 2
- BEB701 - Work Integrated Learning 1
- ENB377 - Water and Waste Water Treatment Engineering
- NQB403 - Soils and the Environment

OR
- NQB614 - Groundwater Systems
- UDB370 - Environmental Planning and Management

Civil and Environmental Engineering Selectives
- BEB802 - Project 2
- ENB379 - Transport Engineering and Planning Applications
- ENB474 - Finite Element Methods
- ENB476 - Civil Engineering Design Project
- ENB478 - Advanced Water Engineering
- ENB481 - Civil Engineering Project Management
- ENB485 - Advanced Geotechnical Engineering Practice

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=EN40&courseID=16750. CRICOS No.00213J
Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA). Recommended study: Chemistry, Maths C and Physics.

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Recommended study: Chemistry, Maths C and Physics.

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
- speaking: 6.0
- writing: 6.0
- reading: 6.0
- listening: 6.0
- overall: 6.0

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

Second Majors and Minors
You will have the opportunity to undertake either a 2nd major or two minors (see options below).

CIVIL ENGINEERING Second Major and Minor Options
Second Major:
Structural Engineering
Transport Engineering and Planning
Minors:
Civil Engineering minor
plus
A minor from anywhere in QUT that is outside of the course. (see University Wide Minors)

Please note: The Work Integrated Learning unit (BEB701) and the project unit (BEB801) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Special Course Requirements
A candidate for the degree of Bachelor of Engineering (Civil) must obtain at least 60 days of industrial experience/practice in an engineering environment as part of the Work Integrated Learning unit.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

Domestic Course structure
Work Integrated Learning unit
Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

Your course
Year 1
Common first-year units include the foundations of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

Year 2
Apply knowledge of fundamental engineering science in design areas of timber and concrete construction, and begin to explore theoretical aspects of geotechnical, fluids and sustainable engineering. Your theoretical understanding is reinforced by practical experience in our laboratories. Engineering statistics mathematical skills also help your understanding of all aspects of engineering design.

Year 3
Increase your knowledge and skills in geotechnical and water engineering.
Bachelor of Engineering (Civil)

Explore steel construction, highway and transport engineering. Further develop communication and organisational skills by writing reports, presenting seminars and working in small groups. Choose your second study area.

Year 4
Build on your third year to complete your second study area. Undertake a major project which will bring together all your previously mastered skills, and advance your communication skills in report writing and seminar presentation. You also complete work integrated learning.

Second majors and minors
You will have the opportunity to undertaken either a 2nd major or two minors (see options below).

Please refer to the rules before making your selection.

Civil engineering second major and minor options
Second Major:
- Structural Engineering
- Transport Engineering and Planning

Minors:
- Civil Engineering minor

plus
- A minor from anywhere in QUT that is outside of the course.

Please note: The Work Integrated Learning unit (BEB701) and the project unit (BEB801) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

International Course structure

Work Integrated Learning unit
Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

Your course

Year 1
Common first-year units include the foundations of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

Year 2
Apply knowledge of fundamental engineering science in design areas of timber and concrete construction, and begin to explore theoretical aspects of geotechnical, fluids and sustainable engineering. Your theoretical understanding is reinforced by practical experience in our laboratories. Engineering statistics mathematical skills also help your understanding of all aspects of engineering design.

Year 3
Increase your knowledge and skills in geotechnical and water engineering. Explore steel construction, highway and transport engineering. Further develop communication and organisational skills by writing reports, presenting seminars and working in small groups. Choose your second study area.

Year 4
Build on your third year to complete your second study area. Undertake a major project which will bring together all your previously mastered skills, and advance your communication skills in report writing and seminar presentation. You also complete work integrated learning.

Second majors and minors
You will have the opportunity to undertaken either a 2nd major or two minors (see options below).

Please refer to the rules before making your selection.

Civil engineering second major and minor options
Second Major:
- Structural Engineering
- Transport Engineering and Planning

Minors:
- Civil Engineering minor

plus
- A minor from anywhere in QUT that is outside of the course.

Please note: The Work Integrated Learning unit (BEB701) and the project unit (BEB801) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

Sample Structure Semesters
- Year 1 - Semester 1
- Year 1 - Semester 2
- Year 2 - Semester 1

Code | Title
--- | ---
ENB100 | Engineering and Sustainability
ENB110 | Engineering Statics and Materials
ENB130 | Mechanical and Thermal Energy
MAB125 | Foundations of Engineering Mathematics
OR
MAB126 | Mathematics for Engineering 1
OR
MAB127 | Mathematics for Engineering 2

Year 2 - Semester 1
ENB200 | Introducing Engineering Systems
MAB126 | Mathematics for Engineering 1
OR
MAB127 | Mathematics for Engineering 2

Year 2 - Semester 2
ENB270 | Engineering Mechanics of Materials
ENB272 | Geotechnical Engineering 1
ENB273 | Civil Materials
MAB233 | Engineering Mathematics 3

Year 3 - Semester 1
ENB274 | Design of Environmentally Sustainable Systems
ENB275 | Project Engineering 1
ENB276 | Structural Engineering 1
ENB280 | Hydraulic Engineering

Year 3 - Semester 2
ENB371 | Geotechnical Engineering 2
ENB376 | Transport Engineering
ENB377 | Water and Waste Water Treatment Engineering

Year 4 - Semester 1
BEB701 | Work Integrated Learning 1
### Bachelor of Engineering (Civil)

<table>
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<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BEB801</td>
<td>Project 1</td>
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<tr>
<td>ENB471</td>
<td>Design of Concrete Structures and Foundations</td>
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<td><strong>Year 4 - Semester 2</strong></td>
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<td>Civil Engineering Design Project</td>
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<td>Civil Engineering Selectives</td>
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<tr>
<td>BEB802</td>
<td>Project 2</td>
</tr>
<tr>
<td>ENB373</td>
<td>Design and Construction of Steel Structures</td>
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<td>ENB379</td>
<td>Transport Engineering and Planning Applications</td>
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<td>ENB380</td>
<td>Environmental Law and Assessment</td>
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<td>Environmental Resource Management</td>
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<td>ENB384</td>
<td>Design of Masonry Structures</td>
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<td>ENB473</td>
<td>Design and Construction of Multi-storey Buildings</td>
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<td>Finite Element Methods</td>
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<td>ENB475</td>
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<td>ENB477</td>
<td>Facade Engineering</td>
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<td>ENB478</td>
<td>Advanced Water Engineering</td>
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<td>ENB481</td>
<td>Civil Engineering Project Management</td>
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<tr>
<td>ENB485</td>
<td>Advanced Geotechnical Engineering Practice</td>
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Minimum English Requirements

Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

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Discontinuation

From Semester 1 2010, this primary major has been discontinued. A second major in this discipline is currently under development.

Professional Recognition

Full professional accreditation from Engineers Australia has been given for this course.

Minors

For professional recognition you will undertake an Applications minor which consists of a Work Place Integrated Learning unit, a project unit and two specialised engineering units.

Special Course Requirements

Students must complete at least 60 days industrial experience as part of the Work Integrated Learning unit in order to graduate.

Further Information

Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

International Student Entry

International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Sample Structure

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<td>Introduction To Telecommunications</td>
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<td>INB104</td>
<td>Building IT Systems</td>
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<td>ENB245</td>
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<td>INB270</td>
<td>Programming</td>
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<td>Year 3 - Semester 1</td>
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<td>Instrumentation and Control</td>
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<td>ENB342</td>
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<td>Data Structures and Algorithms</td>
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<td>Advanced Design and Professional Practice</td>
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<td>ENB346</td>
<td>Digital Communications</td>
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# Bachelor of Engineering (Computer Systems)

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<td>ENB448</td>
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<tr>
<td>ENB458</td>
<td>Modern Control Systems</td>
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<tr>
<td>INB365</td>
<td>Systems Programming</td>
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</table>

## Applications Minor Selectives

### Semester 1:
- **INB340**: Database Design
- **INB355**: Cryptology and Protocols
- **INB373**: Web Application Development
- **INB381**: Modelling and Animation Techniques

### Semester 2:
- **INB272**: Interaction Design
- **INB374**: Enterprise Software Architecture
- **INB382**: Real Time Rendering Techniques

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=EN40&courseID=16710. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=EN40&courseID=16710. CRICOS No.00213J)
Bachelor of Engineering (Computer and Software Systems)

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4,SA). Recommended study: Chemistry, Maths C and Physics.

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Recommended study: Chemistry, Maths C and Physics.

Minimum English requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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<th>Writing</th>
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</tr>
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<tbody>
<tr>
<td></td>
<td>6.0</td>
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<td>6.0</td>
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</tbody>
</table>

Course Overview
The course is a collaborative program between the areas of Engineering and Information Technology which provides students with the electrical engineering and software development skills to seek employment as software engineers. The engineering component consists of studies in electronic systems engineering while the information technology component concentrates on software engineering. These studies integrate into a cohesive course which gives a wide and advanced study of modern electronic and computing systems. This degree produces computer and electronic engineers especially suited for the development and application of electronic systems and computer systems in all areas of industry.

Career Outcomes
Software Engineers create, maintain and modify computer and software programs such as operating systems or communications software. They may also evaluate and deploy new programming tools and techniques and analyse current software products. You may work in a range of occupational environments. Software engineers can work in Engineering/IT-specific industries, as well as in other organisations requiring software engineering expertise.

Professional Recognition
Full professional accreditation from Engineers Australia and the Australian Computer Society has been given for this course.

Special course requirements
Students are required to complete 60 days approved industrial experience as part of the Work Integrated Learning unit.

Minimum English requirements
Students must meet the English proficiency requirements.

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Bachelor of Engineering (Computer and Software Systems)

such as formal software engineering processes with an emphasis on agile methodologies, data structures and algorithms and modern software engineering practices. Microprocessors and embedded digital systems are explored. Principles of systems engineering and project management are introduced and applied through a real-world project.

Year 4
You undertake a major project which may be industry based, in which principles of software engineering learnt to date are brought together. Study also covers embedded systems and security. You also have the opportunity to take one or two electives.

Sample Structure

Semesters

Year 1 - Semester 1
ENB100 Engineering and Sustainability
ENB110 Engineering Statics and Materials
ENB130 Mechanical and Thermal Energy
MAB125 Foundations of Engineering Mathematics

Year 1 - Semester 2
ENB120 Electrical Energy and Measurements
ENB150 Introducing Engineering Design
ENB200 Introducing Engineering Systems
MAB126 Mathematics for Engineering 1

Year 2 - Semester 1
ENB240 Introduction To Electronics
ENB246 Engineering Problem Solving
ENB250 Electrical Circuits
MAB127 Mathematics for Engineering 2

Year 2 - Semester 2
ENB233 Engineering Mathematics 3
ENB243 Linear Circuits and Systems
INB210 Databases
INB251 Networks

Year 3 - Semester 1
INB354 Introduction To Systems Design
INB301 The Business of IT
INB370 Software Development
INB371 Data Structures and Algorithms

Year 3 - Semester 2
ENB244 Microprocessors and Digital Systems
ENB355 Advanced Systems Design
INB365 Systems Programming
MAB233 Engineering Mathematics 3

Selective

Year 4 - Semester 1
BEB801 Project 1

OR

INB309-1 Major Project
ENB350 Real-time Computer-based Systems
INB255 Security

Year 4 - Semester 2
INB309-2 Major Project
INB272 Interaction Design
INB372 Agile Software Development

Computer and Software Systems Selectives

ENB242 Introduction To Telecommunications
ENB344 Industrial Electronics
ENB352 Communication Environments For Embedded Systems
INB340 Database Design
INB355 Cryptology and Protocols
INB373 Web Application Development
INB374 Enterprise Software Architecture
INB381 Modelling and Animation Techniques
INB382 Real Time Rendering Techniques

Any other unit approved by coordinator.

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=EN40&courseID=19550. CRICOS No.00213J

QUT
A university for the real world
# Bachelor of Engineering (Electrical)

<table>
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<th>Handbook</th>
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<td><strong>Year</strong></td>
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<tr>
<td><strong>QUT code</strong></td>
<td>EN40</td>
</tr>
<tr>
<td><strong>CRICOS</strong></td>
<td>056529D</td>
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<td><strong>Duration (full-time)</strong></td>
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<td><strong>Rank</strong></td>
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<td><strong>OP Guarantee</strong></td>
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<td><strong>Campus</strong></td>
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<tr>
<td><strong>Domestic fee (indicative)</strong></td>
<td>2012: CSP $3,804 per Semester</td>
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<td><strong>International fee (indicative)</strong></td>
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<td><strong>Total credit points</strong></td>
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<td><strong>Credit points full-time sem.</strong></td>
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<td><strong>Start months</strong></td>
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<tr>
<td><strong>Int. Start Months</strong></td>
<td>February, July</td>
</tr>
<tr>
<td><strong>Deferred</strong></td>
<td>You can defer your offer and postpone the start of your course for one year</td>
</tr>
<tr>
<td><strong>Course Coordinator</strong></td>
<td>Dr. R. Mahalinga-Iyer</td>
</tr>
<tr>
<td><strong>Discipline Coordinator</strong></td>
<td>Associate Professor Firuz Zare</td>
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## Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA). Recommended study: Chemistry, Maths C and Physics.

## International Subject prerequisites

- Maths B
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You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Recommended study: Chemistry, Maths C and Physics.

## Minimum English requirements

Students must meet the English proficiency requirements.

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<tr>
<td>overall</td>
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</table>

## Professional recognition

Full professional accreditation from Engineers Australia has been given for this course.

## Second Major and Minors

You will have the opportunity to undertake either a 2nd major or two minors (see options below).

### ELECTRICAL ENGINEERING Second Major and Minor Options

**Second Major:**
- Control Systems (previously Control and Manufacturing Engineering)
- Power and Energy Systems (previously Power Engineering)
- Signal Processing
- Telecommunications

**Minors:**
- Electrical Engineering minor
- A minor from anywhere in QUT that is outside of the course. (see University Wide Minors)

Please note: The Work Integrated Learning unit (BEB701) and project units (BEB801, BEB802) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

## International Student Entry

International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

## Special Course Requirements

To graduate, students must complete at least 60 days industrial experience in an engineering environment as part of the Work Integrated Learning unit.

## Further Information

Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

## Domestic Course structure

### Work Integrated Learning unit

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

### Your course

#### Year 1

Common first-year units include the foundations of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

#### Year 2

You expand your knowledge of electrical engineering, and cover the fundamentals of analogue and digital electronics, and the approach to writing software to solve engineering problems. You are introduced to fundamental concepts in electronics, telecommunications and software design. You apply these concepts and are introduced to fundamentals of electrical engineering design.
 Bachelor of Engineering (Electrical)

Year 3
You increase your knowledge and skills in more advanced units in control, power systems, electronics, signal processing and telecommunications. You continue to develop your communication skills by writing assignment reports and presenting seminars. You choose a second study area.

Year 4
In your final year you complete your second study area. You undertake a major project which may be industry based and brings together all your previously mastered skills and advances your communication skills in report writing and seminar presentation. You will also complete your work integrated learning.

Second majors and minors
You will have the opportunity to undertake either a 2nd major or two minors (see options below).

Please refer to the rules before making your selection.

Electrical engineering second major and minor options
Second major:
- Control Systems (previously Control and Manufacturing Engineering)
- Power and Energy Systems (previously Power Engineering)
- Signal Processing
- Telecommunications

Minors:
- Electrical Engineering minor
- A minor from anywhere in QUT that is outside of the course.

Please note: The Work Integrated Learning unit (BEB701) and the project unit (BE8801) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

Year 3
You increase your knowledge and skills in more advanced units in control, power systems, electronics, signal processing and telecommunications. You continue to develop your communication skills by writing assignment reports and presenting seminars. You choose a second study area.

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</tr>
<tr>
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<td>Mathematics for Engineering 1</td>
</tr>
<tr>
<td>Year 1 - Semester 1</td>
<td></td>
</tr>
<tr>
<td>ENB120</td>
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</tr>
<tr>
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<td>Mathematics for Engineering 2</td>
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<td>ENB240</td>
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International Course Structure

Work Integrated Learning unit
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Your course

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Year 4
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# Bachelor of Engineering (Electrical)

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<td>ENB301</td>
<td>Instrumentation and Control</td>
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<td>ENB340</td>
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**Year 3 - Semester 2**

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<td>ENB344</td>
<td>Industrial Electronics</td>
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<td>ENB345</td>
<td>Advanced Design and Professional Practice</td>
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<tr>
<td>MAB233</td>
<td>Engineering Mathematics 3</td>
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</table>

OR

**Selective**

**Please note:** Students wishing to undertake CEED based Industry Project should consult the Subject Area Coordinator to provide a program for the final year. CEED program requires that you undertake units BEB701, BEB801 and BEB802 together in either Semester 1 or 2.

**Year 4 - Semester 1**

<table>
<thead>
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<tbody>
<tr>
<td>BEB801</td>
<td>Project 1</td>
</tr>
<tr>
<td>ENB346</td>
<td>Digital Communications</td>
</tr>
</tbody>
</table>

Second Major/Minor unit

Second Major/Minor unit

**Year 4 - Semester 2**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
</tr>
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<tbody>
<tr>
<td>BEB701</td>
<td>Work Integrated Learning 1</td>
</tr>
<tr>
<td>BEB802</td>
<td>Project 2</td>
</tr>
</tbody>
</table>

Second Major/Minor unit

Second Major/Minor unit

**Electrical Engineering Selectives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ENB339</td>
<td>Introduction to Robotics</td>
</tr>
<tr>
<td>ENB350</td>
<td>Real-time Computer-based Systems</td>
</tr>
<tr>
<td>ENB352</td>
<td>Communication Environments For Embedded Systems</td>
</tr>
<tr>
<td>ENB440</td>
<td>RF Techniques and Modern Applications</td>
</tr>
<tr>
<td>ENB441</td>
<td>Applied Image Processing</td>
</tr>
<tr>
<td>ENB446</td>
<td>Wireless Communications</td>
</tr>
<tr>
<td>ENB448</td>
<td>Signal Processing and Filtering</td>
</tr>
<tr>
<td>ENB452</td>
<td>Advanced Power Systems Analysis</td>
</tr>
<tr>
<td>ENB453</td>
<td>Power Equipment and Utilisation</td>
</tr>
<tr>
<td>ENB454</td>
<td>Power System Management</td>
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<td>ENB455</td>
<td>Power Electronics</td>
</tr>
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<td>ENB456</td>
<td>Energy</td>
</tr>
<tr>
<td>ENB457</td>
<td>Controls, Systems and Applications</td>
</tr>
<tr>
<td>ENB458</td>
<td>Modern Control Systems</td>
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</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=EN40&courseID=16690. CRICOS No.00213](http://www.student.qut.edu.au/studying/courses/course?courseCode=EN40&courseID=16690. CRICOS No.00213)
Bachelor of Engineering (Mechanical)

Handbook

Year | 2012
---|---
QUT code | EN40
CRICOS | 056529D
Duration (full-time) | 4 years
OP | 11
Rank | 78
OP Guarantee | Yes
Campus | Gardens Point
Domestic fee (indicative) | 2012: CSP $3,804 per Semester
International fee (indicative) | 2012: $12500 per Semester
Total credit points | 384
Credit points full-time sem. | 48
Start months | February, July
Int. Start Months | February, July
Deferment | You can defer your offer and postpone the start of your course for one year
Course Coordinator | Dr R. Mahalinga-Iyer
Discipline Coordinator | TBA

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (A, SA). Recommended study: Chemistry, Maths C and Physics.

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Recommended study: Chemistry, Maths C and Physics.

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
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<tr>
<td>writing</td>
<td>6.0</td>
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<tr>
<td>reading</td>
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<tr>
<td>listening</td>
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<tr>
<td>overall</td>
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</tr>
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</table>

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

Second Major and Minors
You will have the opportunity to undertaken either a second major or two minors (see options below).

MECHANICAL ENGINEERING Second Major and Minor Options
Second Major:
- Motor Racing Engineering (previously Automotive Engineering)
- Engineering Management
- Heavy Mechanical Engineering

Minors:
- Mechanical Engineering minor
- A minor from anywhere in QUT that is outside of the course. (see University

Wide Minors)
Please note: The Work Integrated Learning unit (BEB701) and project units (BEB801, BEB802) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

Special Course Requirements
A candidate for the degree of Bachelor of Engineering (Mechanical) must complete at least 60 days of industrial experience/practice in an engineering environment as part of the Work Integrated Learning unit.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

Domestic Course structure
Work Integrated Learning unit
Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

Your course
Year 1
Common first-year units include the foundations of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

Year 2
You build your knowledge of engineering science in areas such as fundamentals of design, dynamics, fluid mechanics, manufacturing and mathematics. You also gain practical experience in our laboratories and are introduced to computational fluid dynamics (CFD). Your communication skills will also be advanced with an introduction to engineering drawing and assignment report writing.

Year 3
You increase your knowledge and skills in a number of professional areas, including design, where you are introduced to solids modelling, materials and
Bachelor of Engineering (Mechanical)

manufacture, instrumentation and control, dynamics, thermodynamics and stress analysis. You continue to develop your communication skills by writing assignment reports and presenting seminars. You choose a second study area.

Year 4
In your final year you complete your second study area. You undertake a major project which will bring together all your previously mastered skills, and advance your communication skills in report writing and seminar presentation. You will also undertake your work integrated learning.

Second majors and minors
You will have the opportunity to undertaken either a 2nd major or two minors (see options below).

Please refer to the rules before making your selection.

Mechanical engineering second major and minor options
Second major:
- Motor Racing Engineering (previously Automotive Engineering)
- Engineering Management
- Heavy Mechanical Engineering

Minors:
- Mechanical Engineering minor
- A minor from anywhere in QUT that is outside of the course.

Please note: The Work Integrated Learning unit (BBE701) and the project unit (BBE801) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

International Course structure

Work Integrated Learning unit
Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

Your course

Year 1
Common first-year units include the foundations of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

Year 2
You build your knowledge of engineering science in areas such as fundamentals of design, dynamics, fluid mechanics, manufacturing and mathematics. You also gain practical experience in our laboratories and are introduced to computational fluid dynamics (CFD). Your communication skills will also be advanced with an introduction to engineering drawing and assignment report writing.

Year 3
You increase your knowledge and skills in a number of professional areas, including design, where you are introduced to solids modelling, materials and manufacture, instrumentation and control, dynamics, thermodynamics and stress analysis. You continue to develop your communication skills by writing assignment reports and presenting seminars. You choose a second study area.

Year 4
In your final year you complete your second study area. You undertake a major project which will bring together all your previously mastered skills, and advance your communication skills in report writing and seminar presentation. You will also undertake your work integrated learning.

Second majors and minors
You will have the opportunity to undertaken either a 2nd major or two minors (see options below).

Please refer to the rules before making your selection.

Mechanical engineering second major and minor options
Second major:
- Motor Racing Engineering (previously Automotive Engineering)
- Engineering Management
- Heavy Mechanical Engineering

Minors:
- Mechanical Engineering minor
- A minor from anywhere in QUT that is outside of the course.

Please note: The Work Integrated Learning unit (BBE701) and the project unit (BBE801) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

Sample Structure

Seminesters

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ENB100</td>
<td>Engineering and Sustainability</td>
</tr>
<tr>
<td>ENB110</td>
<td>Engineering Statics and Materials</td>
</tr>
<tr>
<td>ENB130</td>
<td>Mechanical and Thermal Energy</td>
</tr>
<tr>
<td>MAB125</td>
<td>Foundations of Engineering Mathematics</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MAB126</td>
<td>Mathematics for Engineering 1</td>
</tr>
</tbody>
</table>

Year 1 - Semester 2

| ENB120 | Electrical Energy and Measurements        |
| ENB150 | Introducing Engineering Design            |
| ENB200 | Introducing Engineering Systems           |
| MAB126 | Mathematics for Engineering 1             |
| OR     |                                            |
| MAB127 | Mathematics for Engineering 2              |

Year 2 - Semester 1

| ENB211 | Dynamics                                    |
| ENB212 | Strength of Materials                       |
| ENB231 | Materials and Manufacturing 1               |
| MAB127 | Mathematics for Engineering 2               |
| OR     |                                            |
| MAB233 | Engineering Mathematics 3                   |

Year 2 - Semester 2

| ENB205 | Electrical and Computer Engineering        |
| ENB215 | Fundamentals of Mechanical Design          |
| ENB221 | Fluid Mechanics                             |
| ENB331 | Materials and Manufacturing 2               |

Please note:
**Bachelor of Engineering (Mechanical)**

Students wishing to undertake CEED based Industry Project should consult the Subject Area Coordinator to provide a program for the final 2 years. CEED program requires that you undertake units BEB701, BEB801 and BEB802 together in either Semester 1 or 2.

<table>
<thead>
<tr>
<th>Year 3 - Semester 1</th>
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<tbody>
<tr>
<td>ENB222 Thermodynamics 1</td>
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<tr>
<td>ENB311 Stress Analysis</td>
</tr>
<tr>
<td>ENB312 Dynamics of Machinery</td>
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<tr>
<td>ENB316 Design of Machine Elements</td>
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<table>
<thead>
<tr>
<th>Year 3 - Semester 2</th>
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</thead>
<tbody>
<tr>
<td>ENB313 Automatic Control</td>
</tr>
<tr>
<td>ENB317 Design and Maintenance of Machinery</td>
</tr>
<tr>
<td>ENB321 Fluids Dynamics</td>
</tr>
<tr>
<td>MAB233 Engineering Mathematics 3</td>
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<td>OR</td>
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</table>

<table>
<thead>
<tr>
<th>Year 4 - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB801 Project 1</td>
</tr>
<tr>
<td>ENB421 Thermodynamics 2</td>
</tr>
<tr>
<td>Second Major/Minor unit</td>
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<td>Second Major/Minor unit</td>
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<table>
<thead>
<tr>
<th>Year 4 - Semester 2</th>
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<tbody>
<tr>
<td>BEB701 Work Integrated Learning 1</td>
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<tr>
<td>BEB802 Project 2</td>
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<td>Second Major/Minor unit</td>
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<td>Second Major/Minor unit</td>
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**Selective**

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<th>Year 4 - Semester 1</th>
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<tbody>
<tr>
<td>BEB801 Project 1</td>
</tr>
<tr>
<td>ENB421 Thermodynamics 2</td>
</tr>
<tr>
<td>Second Major/Minor unit</td>
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<tr>
<td>Second Major/Minor unit</td>
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</table>

**Mechanical Engineering Selectives**

<table>
<thead>
<tr>
<th>ENB314 Industrial Noise and Vibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB333 Operations Management</td>
</tr>
<tr>
<td>ENB336 Industrial Engineering</td>
</tr>
<tr>
<td>ENB339 Introduction to Robotics</td>
</tr>
<tr>
<td>ENB422 Energy Management</td>
</tr>
<tr>
<td>ENB423 Heating, Ventilation and Air-Conditioning</td>
</tr>
<tr>
<td>ENB432 Engineering Asset Management and Maintenance</td>
</tr>
<tr>
<td>ENB433 Plant and Process Design</td>
</tr>
<tr>
<td>ENB434 Tribology</td>
</tr>
<tr>
<td>ENB435 Computer Integrated Manufacturing</td>
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</table>
Bachelor of Engineering (Mechatronics)

**Year** 2012

**QUT code** EN40

**CRICOS** 056529D

**Duration (full-time)** 4 years

**OP** 11

**Rank** 78

**OP Guarantee** Yes

**Campus** Gardens Point

**Domestic fee (indicative)** 2012: CSP $3,804 per Semester

**International fee (indicative)** 2012: $12500 per Semester

**Total credit points** 384

**Credit points full-time sem.** 48

**Start months** February, July

**Int. Start Months** February, July

**Deferment** You can defer your offer and postpone the start of your course for one year

**Course Coordinator** Dr. R. Mahalinga-Iyer

**Discipline Coordinator** Dr. Ben Upcroft

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**Domestic Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas

- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA). Recommended study: Chemistry, Maths C and Physics.

**International Subject prerequisites**

- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Recommended study: Chemistry, Maths C and Physics.

**Minimum english requirements**

Students must meet the English proficiency requirements.

**IELTS (International English Language Testing System)**

- speaking 6.0
- writing 6.0
- reading 6.0
- listening 6.0
- overall 6.0

**Professional Recognition**

Full professional accreditation from Engineers Australia has been given for this course.

**Second Majors and Minors**

You will have the opportunity to undertake either a 2nd major or two minors (see options below).

**MECHATRONICS Second Major and Minor Options**

**Second Major:**
- Manufacturing
- Robotics

**Minors:**
- Robotics Minor plus
- A minor from anywhere in QUT that is outside of the course. (see University Wide Minors)

Please note: The Work Integrated Learning unit (BEB701) and project units (BEB801, BEB802) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

**Special Course Requirements**

Students must obtain at least 60 days of industrial work experience in an engineering environment as part of the Work Integrated Learning unit.

**International Student Entry**

International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

**Further Information**

Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

**Domestic Course structure**

**Work Integrated Learning unit**

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

**Your course**

**Year 1**

Common first-year units include the foundations of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

**Year 2**

Build your knowledge of fundamental engineering science in areas such as design, dynamics, fluid mechanics, manufacturing and mathematics. You are introduced to technical computing which is a specialist requirement for information technology. You gain practical experience in our laboratories and are introduced to computational fluid dynamics (CFD). Your communication skills are advanced with an introduction to engineering drawing and report writing.

**Year 3**

You increase your knowledge and skills in professional areas including design and
thermodynamics. You are exposed to specialist areas such as electronics, microprocessors and mechatronics, operations management and machines. Throughout this level you continue to develop your communication skills by writing assignment reports and presenting seminars.

Year 4
In your final year you further your skills in specialised areas such as mechatronic systems design, instrumentation and control and computer intelligence. You also undertake an industry-based project which will bring together all your previously mastered skills, and advance your communication skills in report writing and seminar presentation. You will also complete your work integrated learning.

Second majors and minors
You will have the opportunity to undertake either a 2nd major or two minors (see options below).

Please refer to the rules before making your selection.

Mechatronics engineering second major and minor options
Second major:
- Manufacturing
- Robotics

Minors:
- Robotics minor
- A minor from anywhere in QUT that is outside of the course.

Please note: The Work Integrated Learning unit (BE8701) and the project unit (BE8801) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

International Course structure

Work Integrated Learning unit
Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

Your course
Year 1
Common first-year units include the foundations of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

Year 2
Build your knowledge of fundamental engineering science in areas such as design, dynamics, fluid mechanics, manufacturing and mathematics. You are introduced to technical computing which is a specialist requirement for information technology. You gain practical experience in our laboratories and are introduced to computational fluid dynamics (CFD). Your communication skills are advanced with an introduction to engineering drawing and report writing.

Year 3
You increase your knowledge and skills in professional areas including design and thermodynamics. You are exposed to specialist areas such as electronics, microprocessors and mechatronics, operations management and machines. Throughout this level you continue to develop your communication skills by writing assignment reports and presenting seminars.

Year 4
In your final year you further your skills in specialised areas such as mechatronic systems design, instrumentation and control and computer intelligence. You also undertake an industry-based project which will bring together all your previously mastered skills, and advance your communication skills in report writing and seminar presentation. You will also complete your work integrated learning.

Second majors and minors
You will have the opportunity to undertake either a 2nd major or two minors (see options below).

Please refer to the rules before making your selection.

Mechatronics engineering second major and minor options
Second major:
- Manufacturing
- Robotics

Minors:
- Robotics minor
- A minor from anywhere in QUT that is outside of the course.

Please note: The Work Integrated Learning unit (BE8701) and the project unit (BE8801) that are required for professional recognition and were once part of an applications minor have now been moved to the core of the Engineering course.

Sample Structure Semesters

<table>
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<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>ENB100</td>
<td>Engineering and Sustainability</td>
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<tr>
<td>ENB110</td>
<td>Engineering Statics and Materials</td>
</tr>
<tr>
<td>ENB120</td>
<td>Electrical Energy and Measurements</td>
</tr>
<tr>
<td>MAB125</td>
<td>Foundations of Engineering Mathematics</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MAB126</td>
<td>Mathematics for Engineering 1</td>
</tr>
<tr>
<td>ENB130</td>
<td>Mechanical and Thermal Energy</td>
</tr>
<tr>
<td>ENB150</td>
<td>Introducing Engineering Design</td>
</tr>
<tr>
<td>ENB200</td>
<td>Introducing Engineering Systems</td>
</tr>
<tr>
<td>MAB126</td>
<td>Mathematics for Engineering 1</td>
</tr>
<tr>
<td>OR</td>
<td></td>
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<tr>
<td>MAB127</td>
<td>Mathematics for Engineering 2</td>
</tr>
<tr>
<td>ENB211</td>
<td>Dynamics</td>
</tr>
<tr>
<td>ENB212</td>
<td>Strength of Materials</td>
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<tr>
<td>ENB231</td>
<td>Materials and Manufacturing 1</td>
</tr>
<tr>
<td>MAB127</td>
<td>Mathematics for Engineering 2</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MAB233</td>
<td>Engineering Mathematics 3</td>
</tr>
<tr>
<td>ENB215</td>
<td>Fundamentals of Mechanical Design</td>
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<tr>
<td>ENB221</td>
<td>Fluid Mechanics</td>
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<td>ENB331</td>
<td>Materials and Manufacturing 2</td>
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<tr>
<td>INB104</td>
<td>Building IT Systems</td>
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<td>Year 3 - Semester 1</td>
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<tr>
<td>ENB222</td>
<td>Thermodynamics 1</td>
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<td>ENB240</td>
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<td>Year 4 - Semester 2</td>
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<td>Year 5 - Semester 1</td>
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<td>Year 5 - Semester 2</td>
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<td>Year 6 - Semester 1</td>
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<td>Year 6 - Semester 2</td>
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This information is correct as of 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=EN40&courseID=16790. CRICOS No.00213J
# Bachelor of Engineering (Mechatronics)

<table>
<thead>
<tr>
<th>Year 3 - Semester 2</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB250</td>
<td>Electrical Circuits</td>
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<tr>
<td>ENB334</td>
<td>Design For Manufacturing</td>
<td></td>
</tr>
<tr>
<td>ENB243</td>
<td>Linear Circuits and Systems</td>
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<tr>
<td>ENB244</td>
<td>Microprocessors and Digital Systems</td>
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<tr>
<td>ENB436</td>
<td>Mechatronics System Design</td>
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<tr>
<td>INB270</td>
<td>Programming</td>
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<th>Course Code</th>
<th>Course Name</th>
</tr>
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<tbody>
<tr>
<td>ENB301</td>
<td>Instrumentation and Control</td>
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<tr>
<td>INB370</td>
<td>Software Development</td>
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<tr>
<td>INB860</td>
<td>Computational Intelligence for Control and Embedded Systems</td>
<td></td>
</tr>
<tr>
<td>MAB233</td>
<td>Engineering Mathematics 3</td>
<td></td>
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<td></td>
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<table>
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<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB701</td>
<td>Work Integrated Learning 1</td>
<td></td>
</tr>
<tr>
<td>BEB801</td>
<td>Project 1</td>
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<td>BEB802</td>
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<tr>
<td>ENB333</td>
<td>Operations Management</td>
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**Mechatronics Selectives**

<table>
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<th>Course Name</th>
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<tbody>
<tr>
<td>ENB245</td>
<td>Introduction To Design and Professional Practice</td>
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<td>ENB457</td>
<td>Controls, Systems and Applications</td>
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<td>OR any INB unit with permission from Coordinator.</td>
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</table>
Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA). Recommended study: Chemistry, Maths C and Physics.

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Recommended study: Chemistry, Maths C and Physics.

Minimum English requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Special Course Requirements
Students must obtain at least 60 days of industrial employment in an engineering environment as part of the Work Integrated Learning unit. Half of this experience must be in an industry related to Biomedical Engineering.

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).
Bachelor of Engineering (Medical)

Your course

Year 1

Common first-year units include the foundations of engineering mathematics, basic principles of sustainability, electrical engineering, engineering mechanics, engineering design and engineering materials. These units provide a strong, fundamental overview of the three engineering streams: civil, electrical and mechanical.

Year 2

You build your knowledge of engineering science in areas such as fundamentals of design, dynamics, computer technology, fluid mechanics and mathematics. You are introduced to human anatomy which is a specialist requirement for medical engineering. You gain practical experience in our laboratories and are introduced to computational fluid dynamics (CFD). Your communication skills are advanced with an introduction to engineering drawing and assignment report writing.

Year 3

You increase your knowledge and skills in professional areas including thermodynamics and stress analysis. You are exposed to specialist areas such as biomedical engineering design, biofluids, biomaterials and human physiology. Throughout this level you will continue to develop your communication skills by writing assignment reports and presenting seminars. You also gain further professional learning in ethics and legislation.

Year 4

In your final year you further your knowledge in specialised areas such as modelling and simulation, biomedical instrumentation, instrumentation and control, and engineering asset management. You undertake a major project which brings together all your previously mastered skills, and advance your communication skills in report writing and seminar presentation. You will also complete your work integrated learning.

Minors

For professional recognition you will undertake an applications minor which consists of a workplace integrated learning unit, a project unit and two specialised engineering units.

International Course structure

Work Integrated Learning unit
Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

Minors

For professional recognition you will undertake an applications minor which consists of a workplace integrated learning unit, a project unit and two specialised engineering units.

Sample Structure

Seminars

- Year 1 - Semester 1
- Year 1 - Semester 2
- Year 2 - Semester 1
- Year 2 - Semester 2
- Year 3 - Semester 1
- Year 3 - Semester 2
- Year 4 - Semester 1
- Year 4 - Semester 2
- Medical Engineering Selectives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB100</td>
<td>Engineering and Sustainability</td>
</tr>
<tr>
<td>ENB110</td>
<td>Engineering Statics and Materials</td>
</tr>
<tr>
<td>ENB130</td>
<td>Mechanical and Thermal Energy</td>
</tr>
<tr>
<td>MAB125</td>
<td>Foundations of Engineering Mathematics</td>
</tr>
<tr>
<td>OR</td>
<td>Mathematics for Engineering 1</td>
</tr>
<tr>
<td>MAB126</td>
<td>Mathematics for Engineering 2</td>
</tr>
<tr>
<td>ENB120</td>
<td>Electrical Energy and Measurements</td>
</tr>
<tr>
<td>ENB150</td>
<td>Introducing Engineering Design</td>
</tr>
<tr>
<td>ENB200</td>
<td>Introducing Engineering Systems</td>
</tr>
<tr>
<td>MAB126</td>
<td>Mathematics for Engineering 1</td>
</tr>
<tr>
<td>OR</td>
<td>Mathematics for Engineering 2</td>
</tr>
<tr>
<td>MAB211</td>
<td>Dynamics</td>
</tr>
<tr>
<td>MAB212</td>
<td>Strength of Materials</td>
</tr>
<tr>
<td>LSB131</td>
<td>Anatomy</td>
</tr>
<tr>
<td>MAB127</td>
<td>Mathematics for Engineering 2</td>
</tr>
<tr>
<td>OR</td>
<td>Engineering Mathematics 3</td>
</tr>
<tr>
<td>MAB205</td>
<td>Electrical and Computer Engineering</td>
</tr>
<tr>
<td>ENB215</td>
<td>Fundamentals of Mechanical Design</td>
</tr>
<tr>
<td>ENB221</td>
<td>Fluid Mechanics</td>
</tr>
<tr>
<td>LSB231</td>
<td>Physiology</td>
</tr>
</tbody>
</table>

Year 3 - Semester 1

- ENB222 Thermodynamics 1
- ENB231 Materials and Manufacturing 1
- ENB311 Stress Analysis
- ENB319 Biomechanical Engineering Design

Year 3 - Semester 2

- ENB313 Automatic Control
- ENB318 Biomechanical Engineering Systems
- ENB338 Biomaterials
- ENB322 Biofluids

Year 4 - Semester 1

- BEB801 Project 1
- ENB335 Modelling and Simulation For Medical Engineers
- ENB432 Engineering Asset Management and Maintenance

Year 4 - Semester 2

- BEB701 Work Integrated Learning 1
- BEB802 Project 2
- ENB437 Health Legislation in the Medical Environment
- PCB605 Biomedical Instrumentation

Medical Engineering Selectives

- BSB115 Management
- MAB220 Computational Mathematics 1
- MAB422 Mathematical Modelling
- PCB593 Digital Image Processing
- PCN112 Medical Imaging Science
- PCN211 Physics of Medical Imaging
- PYB100 Foundation Psychology
- SCB384 Forensic Sciences - From Crime Scene to Court

Injury Prevention and Rehabilitation (discontinued 31 Dec 2011)
Workplace Health and Safety (discontinued 30 June 2012)

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=EN40&courseID=16770. CRICOS No.00213J
# Bachelor of Engineering (Software Engineering)

<table>
<thead>
<tr>
<th>Handbook</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year</strong></td>
</tr>
<tr>
<td><strong>QUT code</strong></td>
</tr>
<tr>
<td><strong>CRICOS</strong></td>
</tr>
<tr>
<td><strong>Duration (full-time)</strong></td>
</tr>
<tr>
<td><strong>Campus</strong></td>
</tr>
<tr>
<td><strong>Domestic fee (indicative)</strong></td>
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<tr>
<td><strong>International fee (indicative)</strong></td>
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<tr>
<td><strong>Total credit points</strong></td>
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<tr>
<td><strong>Credit points full-time sem.</strong></td>
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<tr>
<td><strong>Course Coordinator</strong></td>
</tr>
<tr>
<td><strong>Discipline Coordinator</strong></td>
</tr>
</tbody>
</table>

## International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Recommended study: Chemistry, Maths C and Physics

## Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
<tbody>
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<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.0</td>
</tr>
</tbody>
</table>

## Course Overview
The course is a collaborative program between the areas of Engineering and Information Technology which provides students with the electrical engineering and software development skills to seek employment as software engineers. The engineering component consists of studies in electronic systems engineering while the information technology component concentrates on software engineering. These studies integrate into a cohesive course which gives a wide and advanced study of modern electronic and computing systems. This degree produces computer and electronic engineers especially suited for the development and application of electronic systems and computer systems in all areas of industry.

## Career Outcomes
Software Engineers create, maintain and modify computer and software programs such as operating systems or communications software. They may also evaluate and deploy new programming tools and techniques and analyse current software products. You may work in a range of occupational environments. Software engineers can work in Engineering/IT-specific industries, as well as in other organisations requiring software engineering expertise.

## Professional Recognition
Full professional accreditation from Engineers Australia and the Australian Computer Society has been given for this course.

## Minors
For professional recognition you will undertake an Applications minor which consists of a Work Place Integrated Learning unit, a project unit and two specialised engineering units.

## Special course requirements
Students are required to complete 60 days approved industrial experience as part of the Work Integrated Learning unit.

## International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

## Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

## Domestic Course structure
Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

## International Course structure
Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

## Minors
For professional recognition you will undertake an Applications minor which consists of a Work Place Integrated Learning unit, a project unit and two specialised engineering units.

## International Course structure
Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

### Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1 - Semester 1</strong></td>
</tr>
<tr>
<td><strong>Year 1 - Semester 2</strong></td>
</tr>
<tr>
<td><strong>Year 2 - Semester 1</strong></td>
</tr>
<tr>
<td><strong>Year 2 - Semester 2</strong></td>
</tr>
<tr>
<td><strong>Year 3 - Semester 1</strong></td>
</tr>
<tr>
<td><strong>Year 3 - Semester 2</strong></td>
</tr>
</tbody>
</table>
# Bachelor of Engineering (Software Engineering)

- **Year 4 - Semester 1**
- **Year 4 - Semester 2**
- **Software Engineering Selectives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Year 1 - Semester 1</th>
<th>Year 1 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB100</td>
<td>Engineering and Sustainability</td>
<td></td>
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</tr>
<tr>
<td>ENB110</td>
<td>Engineering Statics and Materials</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENB120</td>
<td>Electrical Energy and Measurements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAB125</td>
<td>Foundations of Engineering Mathematics</td>
<td></td>
<td></td>
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<tr>
<td>OR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAB126</td>
<td>Mathematics for Engineering 1</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Year 2 - Semester 1</th>
<th>Year 2 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB130</td>
<td>Mechanical and Thermal Energy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENB150</td>
<td>Introducing Engineering Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENB200</td>
<td>Introducing Engineering Systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAB126</td>
<td>Mathematics for Engineering 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAB127</td>
<td>Mathematics for Engineering 2</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Year 3 - Semester 1</th>
<th>Year 3 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB354</td>
<td>Introduction To Systems Design</td>
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</tr>
<tr>
<td>INB301</td>
<td>The Business of IT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INB370</td>
<td>Software Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INB371</td>
<td>Data Structures and Algorithms</td>
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<td></td>
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</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Year 4 - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB801</td>
<td>Project 1</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INB309-1</td>
<td>Major Project</td>
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<tr>
<td>ENB350</td>
<td>Real-time Computer-based Systems</td>
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</tr>
<tr>
<td>INB255</td>
<td>Security</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Year 4 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB701</td>
<td>Work Integrated Learning 1</td>
<td></td>
</tr>
<tr>
<td>BEB802</td>
<td>Project 2</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INB309-2</td>
<td>Major Project</td>
<td></td>
</tr>
<tr>
<td>INB272</td>
<td>Interaction Design</td>
<td></td>
</tr>
<tr>
<td>INB372</td>
<td>Agile Software Development</td>
<td></td>
</tr>
</tbody>
</table>

## Software Engineering Selectives

- **Year 4 - Semester 1**
  - BEB801 Project 1
  - OR
  - INB309-1 Major Project
  - ENB350 Real-time Computer-based Systems
  - INB255 Security
  - Selective

- **Year 4 - Semester 2**
  - BEB701 Work Integrated Learning 1
  - BEB802 Project 2
  - OR
  - INB309-2 Major Project
  - INB272 Interaction Design
  - INB372 Agile Software Development
  - Selective

Any other unit approved by coordinator.
This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=EN40&courseID=16810. CRICOS No.00213J

Bachelor of Engineering (Telecommunications)

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas

- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
<tbody>
<tr>
<td>speaking 6.0</td>
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<tr>
<td>writing 6.0</td>
</tr>
<tr>
<td>reading 6.0</td>
</tr>
<tr>
<td>listening 6.0</td>
</tr>
<tr>
<td>overall 6.0</td>
</tr>
</tbody>
</table>

Discontinuation
From Semester 1 2010, this primary major has been discontinued. A second major in this discipline is currently under development.

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

Minors
For professional recognition you will undertake an Applications minor which consists of a Work Place Integrated Learning unit, a project unit and two specialised engineering units.

Special Course Requirements
To graduate you must complete at least 60 days of approved industrial experience in an engineering environment as part of the Work Integrated Learning unit.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Sample Structure

Seminesters

- Year 1 - Semester 1
- Year 1 - Semester 2
- Year 2 - Semester 1
- Year 2 - Semester 2
- Year 3 - Semester 1
- Year 3 - Semester 2
- Year 4 - Semester 1
- Year 4 - Semester 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENB240</td>
<td>Introduction To Electronics</td>
</tr>
<tr>
<td>ENB242</td>
<td>Introduction To Telecommunications</td>
</tr>
<tr>
<td>INB104</td>
<td>Building IT Systems</td>
</tr>
<tr>
<td>MAB233</td>
<td>Engineering Mathematics 1A</td>
</tr>
<tr>
<td>ENB243</td>
<td>Linear Circuits and Systems</td>
</tr>
<tr>
<td>ENB244</td>
<td>Microprocessors and Digital Systems</td>
</tr>
<tr>
<td>ENB245</td>
<td>Introduction To Design and Professional Practice</td>
</tr>
<tr>
<td>INB270</td>
<td>Programming</td>
</tr>
<tr>
<td>ENB301</td>
<td>Instrumentation and Control</td>
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<tr>
<td>ENB342</td>
<td>Signals, Systems and Transforms</td>
</tr>
<tr>
<td>ENB343</td>
<td>Fields, Transmission and Propagation</td>
</tr>
<tr>
<td>INB371</td>
<td>Data Structures and Algorithms</td>
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</tbody>
</table>

Year 2 - Semester 1

- Year 2 - Semester 2
- Year 3 - Semester 1
- Year 3 - Semester 2
- Year 4 - Semester 1
- Year 4 - Semester 2

- ENB240 Introduction To Electronics
- ENB242 Introduction To Telecommunications
- INB104 Building IT Systems
- MAB233 Engineering Mathematics 1A
- ENB243 Linear Circuits and Systems
- ENB244 Microprocessors and Digital Systems
- ENB245 Introduction To Design and Professional Practice
- INB270 Programming
- ENB301 Instrumentation and Control
- ENB342 Signals, Systems and Transforms
- ENB343 Fields, Transmission and Propagation
- INB371 Data Structures and Algorithms

Year 3 - Semester 2

- BEB701 Work Integrated Learning 1
- ENB345 Advanced Design and Professional Practice
- ENB346 Digital Communications
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>INB251</td>
<td>Networks</td>
</tr>
<tr>
<td>BEB801</td>
<td>Project 1</td>
</tr>
<tr>
<td>ENB440</td>
<td>RF Techniques and Modern Applications</td>
</tr>
<tr>
<td>INB350</td>
<td>Internet Protocols and Services</td>
</tr>
<tr>
<td>INB353</td>
<td>Wireless and Mobile Networks</td>
</tr>
<tr>
<td>Year 4 - Semester 1</td>
<td></td>
</tr>
<tr>
<td>BEB802</td>
<td>Project 2</td>
</tr>
<tr>
<td>ENB445</td>
<td>RF Communication Technologies</td>
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<tr>
<td>ENB446</td>
<td>Wireless Communications</td>
</tr>
<tr>
<td>ENB448</td>
<td>Signal Processing and Filtering</td>
</tr>
<tr>
<td>Year 4 - Semester 2</td>
<td></td>
</tr>
</tbody>
</table>
### Domestic Entry requirements

2012 applications and registrations have closed. Applications at QTAC and registration with QUT for the 2012 intake were due on the 30 November 2011 and have now closed.

Applicants must:
1. Be a current Year 12 student or returning from a gap year.
2. Complete the Engineering Dean’s Scholars questionnaire which will be available via the [Engineering Dean’s Scholars website](http://www.student.qut.edu.au/studying/courses/course?courseCode=EN40&courseID=16650).
3. Attend an interview.

### Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA). Recommended study: Chemistry, Maths C and Physics.

### International Entry requirements

1. Must be a current Year 12 student or returning from a gap year.
2. Complete the Engineering Dean’s Scholars questionnaire which will be available via the [Engineering Dean’s Scholars website](http://www.student.qut.edu.au/studying/courses/course?courseCode=EN40&courseID=16650).
3. Attend an interview.

### International Subject prerequisites

- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Recommended study: Chemistry, Maths C and Physics.

### Minimum english requirements

Students must meet the English proficiency requirements.

<table>
<thead>
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<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
</tbody>
</table>

### Domestic Student Fees

Students who enrol will receive a full scholarship that includes payment of all undergraduate Higher Education Contribution Scheme (HECS) monies for the bachelor program.

### Special Course Requirements

Dean’s Scholars are expected to maintain a GPA of 6.0 or above and complete 60 days of Industry experience. For a copy of the program rules and regulations please contact the [International and Engagement Portfolio](http://www.student.qut.edu.au/studying/courses/course?courseCode=EN40&courseID=16650) of the Science and Engineering Faculty.

### Professional Recognition

Full professional accreditation from Engineers Australia has been given for this course.

### Further Information

The Faculty of Built Environment and Engineering Phone +61 7 3138 2628, Fax +61 7 3138 5280, email: dsp.bee@qut.edu.au

### course structure

For course structures, please see [EN40 Bachelor of Engineering](http://www.student.qut.edu.au/studying/courses/course?courseCode=EN40&courseID=16650).

### Domestic Course structure

#### Work Integrated Learning unit

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.

### International Course structure

#### Work Integrated Learning unit

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator as part of the Work Integrated Learning unit.
Bachelor of Games and Interactive Entertainment

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths A, B or C (4, SA)).

International Subject prerequisites
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths A, B or C (4, SA)).

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<table>
<thead>
<tr>
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<th>Score</th>
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</thead>
<tbody>
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</tr>
<tr>
<td>Reading</td>
<td>6.0</td>
</tr>
<tr>
<td>Listening</td>
<td>6.0</td>
</tr>
<tr>
<td>Overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Why Choose This Course
This course is a collaboration between the faculties of Science and Engineering, and Creative Industries, allowing you to be taught design and technology skills from the experts in their field.

Massive cultural changes are occurring due to the advent of consumer 3D technology. This has changed the expectations and abilities of people, creating more jobs for the industry.

Queensland is leading the video game industry with figures showing the State earns more than any other from interactive entertainment. The State’s game developers generate approximately $55 million per year; a 40 per cent slice of Australia’s video games earnings, according to an Australian Bureau of Statistics report. Queensland game companies also employ almost half of the video game industry’s workforce, with Brisbane becoming a hub of games talent, producing games for a worldwide audience.

Popular games titles produced in Queensland include Hellboy, Fruit Ninja, the children’s game Viva Pinata Party Animals and Star Wars: The Force Unleashed.

Course Structure
The 24-unit degree comprises:
- seven (7) core units including a 24-credit-point final-year project
- eight units in your chosen major
- four units in a secondary area of study, also known as your minor
- four optional units where you can choose units from across QUT to complement your studies.

MAJORS
Choose your primary area of study, also known as your major, from:
- Animation
- Game Design
- Software Technologies

MINORS
- Animation
- Advanced Animation*
- Digital Media
- Entrepreneurship
- Game Design
- Legal Issues
Bachelor of Games and Interactive Entertainment

• Marketing
• Mathematics for Games
• Mobile and Network Technologies
• Physics for Games
• Software Technologies
• Advanced Software Technologies*
• Sound Design

*Only available to those undertaking the animation major.
^Only available to those undertaking the software technologies major.

Professional Recognition
The Software Technologies major within this course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Your Course
Year 1
In your first year you will undertake five core units, consisting of:

• Computer Games Studies
• Building IT Systems
• Industry Insights
• Introducing Design
• Games Production

You will also undertake three units within your chosen major or minor.

Year 2
Second year consists of units within your chosen major and minor together with electives chosen from anywhere in the University.

Year 3
In your final year, you will extend your professional and technical skills by participating in a major group project to produce a significant piece of digital work using PC, mobile devices, consoles or virtual reality. You will also undertake a Bachelor of Games and Interactive Entertainment design project. You will complete your units for your chosen major, minor and optional units.

Cooperative Education Program
The Cooperative Education Program gives students the opportunity of 10-12 months paid industry placement during your course where they can integrate real work experience with what they are learning in their degree. Companies that QUT's Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, Energeta, Boeing, CITEC, CSC Mining, Ed students have worked with include 18 months paid industry placement during the Cooperative Education Program.

In your second year, you will undertake five core units, consisting of:

• Games Production
• Introducing Design
• Industry Insights
• Computer Games Studies
• Digital Media

You will also undertake three units within your chosen major or minor.

Find out more about the Cooperative Education Program.

Credit for Previous Study
Domestic and international applicants may claim credit for part of the degree, on the basis of completed or partially completed studies, related to the Bachelor of IT.

International students can access advanced standing arrangements on QUT's international site.

Domestic applicants should view the credit information on the Student Services site.

Unit Incompatibility/Translation Information
Details on the translation and incompatibility of old and new units is located here: Undergraduate Translation Table

If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

Further Information
For Further Information about this course please contact:
Michael Docherty
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure
Course structure
The 24-unit degree comprises:

• five core units plus a 36-credit-point final-year project (three units equivalent)
• eight units in your chosen major
• four units in a secondary area of study, also known as your minor
• four optional units where you can choose units from across QUT to complement your studies.

Majors
Choose your primary area of study, also known as your major, from:

Animation
This major includes foundation studies in the production of animation and motion graphics; history of animation practices; and programming, which includes object orientation, 3D computer graphics and computer-generated art. You will develop skills enabling you to work in areas such as computer games, interactive media arts, web applications, sound design, adaptive music and interactive public art works.

Game Design
This major provides you with hands-on game design experience, as well as knowledge of narrative and immersion (drawing the player into the game), and game-level design to provide the skills necessary to create interesting and unique game worlds.

Software Technologies
This major will prepare you for careers in the game and simulation industries such as software tester, video game tester, game programmer and software tools developer. You will study technological aspects of computer games, games engine and tools development. Companies used to provide ‘in-house’ training for programming skills; however they are now turning to tertiary institutions to provide appropriately qualified graduates.

Minors
• Animation
• Advanced Animation*
• Digital Media
• Entrepreneurship
• Game Design
• Legal Issues
• Marketing
• Mathematics for Games
• Mobile and Network Technologies
• Physics for Games
• Software Technologies
• Advanced Software Technologies^* Sound Design

Your course
Year 1
In your first year you will undertake five core units, consisting of:

• Computer Games Studies
Bachelor of Games and Interactive Entertainment

- Building IT Systems
- Industry Insights
- Introducing Design
- Games Production.

You will also undertake three units within your chosen major or minor.

Year 2
Second year consists of units within your chosen major and minor together with optional units chosen from anywhere in the University.

Year 3
In your final year, you will extend your professional and technical skills by participating in a major group project to produce a significant piece of digital work using PC, mobile devices, consoles or virtual reality. You will also undertake a Bachelor of Games and Interactive Entertainment design project. You will complete your units for your chosen major, minor and optional units.

*Only available to those undertaking the animation major.

^Only available to those undertaking the software technologies major.

International Course structure

Course structure
The 24-unit degree comprises:
- five core units plus a 36-credit-point final-year project (three units equivalent)
- eight units in your chosen major
- four units in a secondary area of study, also known as your minor
- four optional units where you can choose units from across QUT to complement your studies.

Majors
Choose your primary area of study, also known as your major, from:

Animation
This major includes foundation studies in the production of animation and motion graphics; history of animation practices; and programming which includes object orientation, 3D computer graphics and computer-generated art. You will develop skills enabling you to work in areas such as computer games, interactive media arts, web applications, sound design, adaptive music and interactive public art works.

Game Design
This major provides you with hands-on game design experience, as well as knowledge of narrative and immersion (drawing the player into the game), and game-level design to provide the skills necessary to create interesting and unique game worlds.

Software Technologies
This major will prepare you for careers in the game and simulation industries such as software tester, video game tester, game programmer and software tools developer. You will study technological aspects of computer games, games engine and tools development. Companies used to provide 'in-house' training for programming skills; however they are now turning to tertiary institutions to provide appropriately qualified graduates.

Minors
- Animation
- Advanced Animation*
- Digital Media
- Entrepreneurship
- Game Design
- Legal Issues
- Marketing
- Mathematics for Games
- Mobile and Network Technologies
- Physics for Games
- Software Technologies
- Advanced Software Technologies^* Sound Design

Your course

Year 1
In your first year you will undertake five core units, consisting of:
- Computer Games Studies
- Building IT Systems
- Industry Insights
- Introducing Design
- Games Production.

You will also undertake three units within your chosen major or minor.

Year 2
Second year consists of units within your chosen major and minor together with optional units chosen from anywhere in the University.

Year 3
In your final year, you will extend your professional and technical skills by participating in a major group project to produce a significant piece of digital work using PC, mobile devices, consoles or virtual reality. You will also undertake a Bachelor of Games and Interactive Entertainment design project. You will complete your units for your chosen major, minor and optional units.

*Only available to those undertaking the animation major.

^Only available to those undertaking the software technologies major.

Sample Structure

Seminars
The course consists of four blocks of studies
- The course consists of four blocks of studies
- Year 1, Semester 1
- Year 1, Semester 2
- Year 2, Semester 1
- Year 2, Semester 2
- Year 3, Semester 1
- Year 3, Semester 2

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<td>Computer Games Studies</td>
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<tr>
<td>INB181</td>
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<tr>
<td>Block A</td>
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</tr>
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<td>Block B</td>
<td>Major (8 units) selected from Animation; Digital Media; Games Design; Software Technologies</td>
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<td>Block C</td>
<td>Minor (4 units)</td>
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<td>Block D</td>
<td>Electives (4 units)</td>
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<td>Block E</td>
<td>Cooperative Education Programs are replacements for general IT electives</td>
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Year 1, Semester 1

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<td>Block C or Block D Unit</td>
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Year 2, Semester 1

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Year 3, Semester 1

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<td>Block C or Block D Unit</td>
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<td>Block C</td>
<td>Block B or Block D Unit</td>
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Note: Coop Ed students replace INB380 with INS011 and INS012.
Domestic Entry requirements

2012 applications and registrations have closed.

Applications at QTAC and submission of the online questionnaire with QUT for 2012 was due on the 30 November 2011 and have now closed. Late applications and/or questionnaire submissions will not be accepted.

Applicants are required to complete an online questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas

- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths A, B or C (4, SA)).

International Entry requirements

The questionnaire is available from Additional entry requirements or phone (07) 3138 2782. Shortlisted registrants may be required to attend an interview in December and will be notified of date and venue after registrations close.

International Subject prerequisites

- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths A, B or C (4, SA)).

Minimum English requirements

Students must meet the English proficiency requirements.

<table>
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Why Choose This Course

This course is a collaboration between the Faculties of Science and Engineering, and Creative Industries, allowing you to be taught design and technology skills from the experts in their field. Queensland is leading the video game industry with figures showing the State earns more than any other from interactive entertainment. The State’s game developers generate approximately $55 million per year; a 40 per cent slice of Australia’s video games earnings, according to an Australian Bureau of Statistics report. Queensland game companies also employ almost half of the video game industry’s workforce, with Brisbane becoming a hub of games talent, producing games for a worldwide audience.

Popular games titles produced in Queensland include Hellboy, the children’s game Viva Pinata Party Animals and Star Wars: The Force Unleashed.

Course Structure

The 24-unit degree comprises:

- seven (7) core units including a 24 credit-point final-year project
- eight units in your chosen major
- four units in a secondary area of study, also known as your minor
- four optional units where you can choose units from across QUT to complement your studies.

MAJORS

Choose your primary area of study, also known as your major, from:

- **Animation** This major includes foundation studies in the production of animation and motion graphics; history of animation practices; and programming which includes object orientation, 3D computer graphics and computer generated art. You will develop skills enabling you to work in areas such as computer games, interactive media arts, web applications, sound design, adaptive music and interactive public art works.

- **Game Design** This major provides you with hands-on game design experience, as well as knowledge of narrative and immersion (drawing the player into the game), architecture and interior design to encourage the creation of interesting and unique models within the virtual environment.

- **Software Technologies** This major will
prepare you for careers in the game and simulation industries such as software tester, video game tester, game programmer and software tools developer. You will study technological aspects of computer games, games engine and tools development. Companies used to provide ‘in-house’ training for programming skills, however they are now turning to tertiary institutions to provide appropriately qualified graduates.

**MINORS**
- Animation
- Advanced Animation*
- Digital Media
- Entrepreneurship
- Game Design
- Legal Issues
- Marketing
- Mathematics for Games
- Mobile and Network Technologies
- Physics for Games
- Software Technologies
- Advanced Software Technologies*
- Sound Design

#Requirement for this major is an SA or better in Queensland Maths B (or equivalent).
*Only available to those undertaking the animation major.
^Only available to those undertaking the software technologies major.

**Professional Recognition**
As a graduate of the Dean's Scholars Program you will be qualified for professional accreditation and employment in fields relevant to your specialisation.

**Career Outcomes**
Depending on your specialisation, graduates may find employment as a game/digital media programmer, game designer, simulation developer or designer, animator, film and television special effects developer, games/digital media reviewer, video game tester, sound designer, mobile entertainment and communications developer, web developer, digital product strategist, computer systems engineer, multimedia designer, software engineer, or technical officer.

**Your Course**

**Year 1**
In your first year you will undertake five core units, consisting of:
- Computer Games Studies
- Building IT Systems
- Industry Insights
- Introducing Design
- Games Production
You will also undertake three units within your chosen major or minor.

**Year 2**
Second year consists of units within your chosen major and minor together with electives chosen from anywhere in the University.

**Year 3**
In your final year, you will extend your professional and technical skills by participating in a major group project to produce a significant piece of digital work using PC, mobile devices, consoles or virtual reality. You will also undertake a special topic. You will complete your units for your chosen major, minor and electives.

**Note:**
The Faculty may wish to make your project or thesis work available to other students undertaking Honours studies as an exemplar. As the copyright owner of the work you have created, the Faculty will respect your rights and will seek your authorisation to share your work.

**Financial Support**
Domestic students offered a place in the Dean's Scholars Program will have their undergraduate HECS paid by the Faculty and those proceeding to Honours will also receive full HECS support.

International students will have one-third of their tuition fees paid by the faculty for the undergraduate and honours programs.

Students are responsible for all other costs associated with their program.

**Cooperative Education Program**
The Cooperative Education Program gives students the opportunity of 10-12 months paid industry placement during your course where they can integrate real experience with what they are learning in their degree. Companies that QUT's Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments.

Students participating in this program enrol in INS011 Cooperative Education 1 and INS012 Cooperative Education 2 in the second semester of the program. The cooperative education program and its mentoring and assessment requirements make up the required contact and assessment of both units. Eligibility criteria apply. International students are not eligible due to visa restrictions.

Part-time students who are working in a professional position related to the BGIE may be able to use their current employment to meet the criteria for completing INS011 Cooperative Education 1, after completion of 168 credit points in the Bachelor of Games and Interactive Entertainment, subject to meeting eligibility criteria. Further information about this option is available from Student Services, Level 3, O Block Podium, Gardens Point Campus.

Find out more about the Cooperative Education Program.

**Unit Incompatibility/Translation Information**
Details on the translation and incompatibility of old and new units is located here: Undergraduate Translation Table. If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

**Further Information**
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

**Domestic Course structure**

**Course structure**
The 24-unit degree comprises:
- five core units plus a 36-credit-point final-year project (three units equivalent)
- eight units in your chosen major
- four units in a secondary area of study, also known as your minor
- four optional units where you can choose units from across QUT to complement your studies.

**Majors**
Choose your primary area of study, also known as your major, from:

**Animation**
This major includes foundation studies in the production of animation and motion graphics; history of animation practices; and programming which includes object orientation, 3D computer graphics and computer-generated art. You will develop skills enabling you to work in areas such as computer games, interactive media arts, web applications, sound design, adaptive music and interactive public art works.
Digital Media
This major will prepare you for careers as digital game designers, developers and multimedia architects, making use of the rapid convergence of mixing graphics, video, animation and sound to meet the increasingly complex world of digital entertainment. Organisations are also interested in the strategies that multimedia architects contribute to achieving maximum efficiency and competitiveness, such as integrating multimedia content with information in enterprise software systems and the organisation’s websites.

Game Design
This major provides you with hands-on game design experience, as well as knowledge of narrative and immersion (drawing the player into the game), and game-level design to provide the skills necessary to create interesting and unique game worlds.

Software Technologies
This major will prepare you for careers in the game and simulation industries such as software tester, video game tester, game programmer and software tools developer. You will study technological aspects of computer games, games engine and tools development. Companies used to provide ‘in-house’ training for programming skills; however they are now turning to tertiary institutions to provide appropriately qualified graduates.

Minors
- Animation
- Advanced Animation*
- Digital Media
- Entrepreneurship
- Game Design
- Legal Issues
- Marketing
- Mathematics for Games
- Mobile and Network Technologies
- Physics for Games
- Software Technologies
- Advanced Software Technologies*
- Sound Design

Your course
Year 1
In your first year you will undertake five core units, consisting of:
- Computer Games Studies
- Building IT Systems
- Industry Insights
- Introducing Design
- Games Production.

You will also undertake three units within your chosen major or minor.

Year 2
Second year consists of units within your chosen major and minor together with optional units chosen from anywhere in the university.

Year 3
In your final year, you will extend your professional and technical skills by participating in a major group project to produce a significant piece of digital work using PC, mobile devices, consoles or virtual reality. You will also undertake a Bachelor of Games and Interactive Entertainment design project. You will complete your units for your chosen major, minor and optional units.

*Only available to those undertaking the animation major.

International Course structure
Course structure
The 24-unit degree comprises:
- five core units plus a 36-credit-point final-year project (three units equivalent)
- eight units in your chosen major
- four units in a secondary area of study, also known as your minor
- four optional units where you can choose units from across QUT to complement your studies.

Majors
Choose your primary area of study, also known as your major, from:

Animation
This major includes foundation studies in the production of animation and motion graphics; history of animation practices; and programming which includes object orientation, 3D computer graphics and computer-generated art. You will develop skills enabling you to work in areas such as computer games, interactive media arts, web applications, sound design, adaptive music and interactive public art works.

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This major provides you with hands-on game design experience, as well as knowledge of narrative and immersion (drawing the player into the game), and game-level design to provide the skills necessary to create interesting and unique game worlds.

Software Technologies
This major will prepare you for careers in the game and simulation industries such as software tester, video game tester, game programmer and software tools developer. You will study technological aspects of computer games, games engine and tools development. Companies used to provide ‘in-house’ training for programming skills; however they are now turning to tertiary institutions to provide appropriately qualified graduates.

Minors
- Animation
- Advanced Animation*
- Digital Media
- Entrepreneurship
- Game Design
- Legal Issues
- Marketing
- Mathematics for Games
- Mobile and Network Technologies
- Physics for Games
- Software Technologies
- Advanced Software Technologies*
- Sound Design

Your course
Year 1
In your first year you will undertake five core units, consisting of:
- Computer Games Studies
- Building IT Systems
- Industry Insights
- Introducing Design
- Games Production.

You will also undertake three units within your chosen major or minor.

Year 2
Second year consists of units within your chosen major and minor together with optional units chosen from anywhere in the University.

Year 3
In your final year, you will extend your professional and technical skills by participating in a major group project to produce a significant piece of digital work.
Bachelor of Games and Interactive Entertainment - Dean's Scholars Program

using PC, mobile devices, consoles or virtual reality. You will also undertake a Bachelor of Games and Interactive Entertainment design project. You will complete your units for your chosen major, minor and optional units.

*Only available to those undertaking the animation major.

^Only available to those undertaking the software technologies major.

Sample Structure

Semesters

- The course consists of four blocks of studies
- Year 1, Semester 1
- Year 1, Semester 2
- Year 2, Semester 1
- Year 2, Semester 2
- Year 3, Semester 1
- Year 3, Semester 2
- Year 3, Summer

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<td>INN700</td>
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<td>INN701</td>
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<td>INN401</td>
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This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseId=IT04&courseID=14990. CRICOS No.00213J
Bachelor of Corporate Systems Management

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths A, B or C (4, SA)).

International Subject prerequisites
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths A, B or C (4, SA)).

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

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Why Choose This Course
You may have a great idea for new mobile software, a new way to conduct business over the net, or even how a business could out-manoeuvre its competitors using information technology. You know the importance of IT and you are excited about what IT can do and either want to develop the next big thing yourself or be able to evaluate, identify, choose and integrate from myriad technologies to arrive at a creative solution. This degree will equip you with the knowledge and skills to realise these aspirations. Whether as a professional within an organisation, as a consultant, or as an entrepreneur, you will be well equipped to take advantage of the demand for business-savvy IT professionals who are able to creatively develop or identify IT solutions to help organisations adapt and grow.

Course Structure
The 24-unit degree comprises:
- 16 core units that build your understanding of the relationships between information, technology, business and people
- eight units in a specialisation of your choice – you could choose to further specialise in information technology, a set of units from a different discipline, or optional units from across QUT to complement your studies.

Specialisation options include:
- adult and community learning
- business systems engineering
- construction management – administration
- creative industries management
- databases
- entrepreneurship
- finance
- forensics
- human resource management
- organisational psychology
- information systems
- information management/information technology management
- international studies
- law
- management
- marketing
- public health

Professional Recognition
This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Your Course
Year 1
In your first semester, you will complete the first four core units:
- Impact of IT
- Industry Insights
- Corporate Systems
- Organisational Databases.

In your second semester, you will complete three more core units:
- Management, People and Organisations
- Project Management Practice
- Information Systems Development.

You will also choose your specialisation and complete your first specialisation unit, or start your electives.

Year 2
In first semester, you will complete three core units:
- Business Analysis
Bachelor of Corporate Systems Management

- Technology Management
- Creating New Enterprises.

You will also complete your second specialisation unit or electives.

In second semester, you will complete two core units:
- Marketing
- Web Sites for Electronic Commerce.

You will also complete two more specialisation units or electives.

**Year 3**

In your first semester, you will complete two core units:
- Enterprise Systems Applications
- Information Systems Consulting.

You will also complete two more specialisation units or electives.

In your second semester, you will complete the last two core units:
- Business Process Modelling
- Corporate Systems Management Project (your final-year showcase project).

You will also complete the last two units of your specialisation or electives.

**Course Requirements**

**Block A: Core Units**

16 Units (includes an industry-based project)

**Block B: Complementary Studies**

Students can select unit set(s) from within the Science and Engineering Faculty or from those offered by other Faculties at QUT. Some options for complementary studies are listed in this document. Alternatively, students may select to take up to 8 elective units with the approval of the Course Coordinator.

If you require assistance in selecting your IT Complementary Studies please contact your Course Coordinator.

**UNIT SELECTION PROCESS**

- Determine which units you are yet to complete
- Check that you meet the prerequisite requirements for these units
- Check the availability of the unit in the given semester
- Enrol in the appropriate units and ensure you have nominated your major via your online enrolment page

**NOTE:** It is the student’s responsibility to ensure that the correct enrolment program is nominated and prerequisite requirements are met for selected units.

Assistance with planning your enrolment is available from Student Services, Level 3, O Block Podium, Gardens Point campus.

**Cooperative Education Program**

The Cooperative Education Program gives students the opportunity of 10-12 months paid industry placement during your course where they can integrate real experience with what they are learning in their degree. Companies that QUT’s Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments.

Students participating in this program enrol in INB300 Professional Practice in IT in the first semester of the program and in INB325 Corporate Systems Management Project in the second semester of the program. The cooperative education program and its mentoring and assessment requirements make up the required contact and assessment components of both units. Eligibility criteria apply. International students are not eligible due to visa restrictions.

Part-time students who are working in a professional IT position may be able to use their current employment to meet the criteria for completing INB300 Professional Practice in IT, after completion of 168 credit points in the Bachelor of Corporate Systems Management component, subject to meeting eligibility criteria. Further information about this option is available from Student Services, Level 3, O Block Podium, Gardens Point campus or see the unit outline for INB300.

Find out more about the [Cooperative Education Program](#).

**Unit Incompatibility/Translation Information**

Details on the translation and incompatibility of old and new units is located here: [Undergraduate Translation Table](#). If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

**Intermediate Level Electives**

If you have not completed ITB008 you will need to replace it with one of the following:
- INB120 Corporate Systems
- INB220 Business Analysis

- INB255 Security
- INB272 Interaction Design

Or, an INB300 level unit as approved by the course coordinator

**Further Information**

For further information about this course, please contact the following:

**Course Co-ordinator**
Dr Taizan Chan
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

**Domestic Course structure**

**Course structure**

The 24-unit degree comprises:

- 16 core units that build your understanding of the relationships between information, technology, business and people
- eight units in a specialisation of your choice – you could choose to further specialise in information technology, a set of units from a different discipline, or optional units from across QUT to complement your studies.

Specialisation options include:
- adult and community learning
- business systems engineering
- construction management – administration
- creative industries management
- databases
- entrepreneurship
- finance
- forensics
- human resource management
- organisational psychology
- information systems
- information management/information technology management
- international studies
- law
- management
- marketing
- public health.

**Your course**

**Year 1**

In your first semester, you will complete the first four core units:
- Impact of IT
- Industry Insights
- Corporate Systems
- Organisational Databases.

In your second semester, you will complete three more core units:
- Management, People and Organisations
- Project Management Practice
- Information Systems Development.

You will also choose your specialisation and complete your first specialisation unit,
or start your electives.

**Year 2**
In first semester, you will complete three core units:
- Business Analysis
- Technology Management
- Creating New Enterprises.

You will also complete your second specialisation unit or electives.

In second semester, you will complete two core units:
- Marketing
- Web Sites for Electronic Commerce.

You will also complete two more specialisation units or electives.

**Year 3**
In your first semester, you will complete two core units:
- Enterprise Systems Applications
- Information Systems Consulting.

You will also complete two more specialisation units or electives.

In your second semester, you will complete the last two core units:
- Business Process Modelling
- Corporate Systems Management Project (your final-year showcase project).

You will also complete the last two units of your specialisation or electives.

**International Course structure**

**Course structure**
The 24-unit degree comprises:
- 16 core units that build your understanding of the relationships between information, technology, business and people
- eight units in a specialisation of your choice – you could choose to further specialise in information technology, a set of units from a different discipline, or optional units from across QUT to complement your studies.

Specialisation options include:
- adult and community learning
- business systems engineering
- construction management – administration
- creative industries management
- databases
- entrepreneurship
- finance
- forensics
- human resource management
- organisational psychology
- information systems
- information management/information technology management
- international studies
- law
- management
- marketing
- public health.

**Your course**

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In your first semester, you will complete the first four core units:
- Impact of IT
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- Information Systems Development.

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In first semester, you will complete three core units:
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- Creating New Enterprises.

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In second semester, you will complete two core units:
- Marketing
- Web Sites for Electronic Commerce.

You will also complete two more specialisation units or electives.

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In your first semester, you will complete two core units:
- Enterprise Systems Applications
- Information Systems Consulting.

You will also complete two more specialisation units or electives.

In your second semester, you will complete the last two core units:
- Business Process Modelling
- Corporate Systems Management Project (your final-year showcase project).

You will also complete the last two units of your specialisation or electives.

**Sample Structure Semesters**
- **Course Structure 2011 onwards**
- **Year 1, Semester 1**
  - INB103 Industry Insights
  - INB120 Corporate Systems
  - INB101 Impact of IT
  - INB122 Organisational Databases

- **Year 1, Semester 2**
  - BSB115 Management
  - INB123 Project Management Practice
  - INB124 Information Systems Development

- **Year 2, Semester 1**
  - INB220 Business Analysis
  - INB221 Technology Management
  - MGB223 Entrepreneurship and Innovation

- **Year 2, Semester 2**
  - BSB126 Marketing
  - INB313 Electronic Commerce Site Development

- **Year 3, Semester 1**
  - INB312 Enterprise Systems Applications
  - INB322 Information Systems Consulting

- **Year 3, Semester 2**
  - INB320 Business Process Modelling
  - INB325 Corporate Systems Management Project

- **Block B Unit**
  - **Year 1, Semester 1**
  - **Year 2, Semester 1**
  - **Year 2, Semester 2**
  - **Year 3, Semester 1**
  - **Year 3, Semester 2**
  - **Block B: Complimentary Studies**
  - **Intermediate Level Electives**

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT06&courseID=15010. CRICOS No.00213J.
Bachelor of Corporate Systems Management

Students select 96cp comprising of IT unit set(s) or from those offered by other Faculties at QUT. Alternatively, students may undertake eight elective units with the approval of the Course Coordinator.

<table>
<thead>
<tr>
<th>Banking and Finance</th>
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<tbody>
<tr>
<td>BSB113 Economics</td>
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<tr>
<td>BSB123 Data Analysis</td>
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<td>UDB110 Residential Construction and Engineering</td>
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<td>MGB201 Contemporary Employment Relations</td>
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<td>MGB207 Human Resource Issues and Strategy</td>
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<td>MGB314 Organisational Consulting and Change</td>
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<td>MGB339 Performance and Reward</td>
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<td>LWB137 Contracts B</td>
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<td>LWB145 Legal Foundations A</td>
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<tr>
<td>LWB146 Legal Foundations B</td>
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<td>LWB238 Fundamentals of Criminal Law</td>
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<td>LWB241 Trusts</td>
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<td>LWB242 Constitutional Law</td>
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<td>BSB113 Economics</td>
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<td>BSB124 Working in Business</td>
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<td>MGB200 Leading Organisations</td>
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<td>MGB210 Managing Operations</td>
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<td>MGB309 Strategic Management</td>
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<td>MGB324 Managing Business Growth</td>
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<tr>
<td>AMB200 Consumer Behaviour</td>
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<td>AMB201 Marketing and Audience Research</td>
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<td>AMB240 Marketing Planning and Management</td>
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<td>AMB335 E-marketing Strategies</td>
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<td>AMB359 Strategic Marketing</td>
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<tr>
<td>PYB007 Interpersonal Processes and Skills</td>
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<td>PYB100 Foundation Psychology</td>
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<td>PYB202 Social and Organisational Psychology</td>
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<td>PYB302 Industrial and Organisational Psychology</td>
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<td>PUB326 Epidemiology</td>
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<td>PUB332 Sustainable Environments For Health</td>
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<td>PUB406 Health Promotion Practice</td>
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<tbody>
<tr>
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<td>JSB171 Justice and Society</td>
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<tr>
<td>JSB272 Theories of Crime</td>
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<td>JSB273 Crime Research Methods</td>
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<td>JSB372 Youth Justice</td>
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<td>JSB373 Punishment and Penal Policy</td>
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<td>Crime Prevention</td>
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<td>LWB145 Legal Foundations A</td>
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<tr>
<th>Specialisation - IT (Digital Environments)</th>
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<tr>
<td>INB104 Building IT Systems</td>
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<tr>
<td>INB210 Databases</td>
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<td>INB270 Programming</td>
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<td>INB335 Information Resources</td>
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<td>INB340 Database Design</td>
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<td>INB345 Mobile Devices</td>
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<td>INB346 Enterprise 2.0</td>
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<td>INB347 Web 2.0 Applications</td>
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<tr>
<th>Intermediate Level Electives</th>
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<tr>
<td>INB120 Corporate Systems</td>
<td></td>
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<tr>
<td>INB220 Business Analysis</td>
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<tr>
<td>INB255 Security</td>
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<tr>
<td>INB272 Interaction Design</td>
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</table>

Or, an INB300 level unit as approved by the course coordinator.
Domestic Entry requirements

2012 applications and registrations have closed.

Applications at QTAC and submission of the online questionnaire with QUT for 2012 was due on the 30 November 2011 and have now closed. Late applications and/or questionnaire submissions will not be accepted.

Applicants are required to complete an online questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths A, B or C (4, SA)).

International Entry requirements

Applicants are required to complete a questionnaire.

This course is only available to international students completing Year 12 in Australia.

International Subject prerequisites
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths A, B or C (4, SA)).

Minimum English requirements

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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<tbody>
<tr>
<td>speaking</td>
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<tr>
<td>writing</td>
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<tr>
<td>reading</td>
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<tr>
<td>listening</td>
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<tr>
<td>overall</td>
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</table>

Why Choose This Course

You may have a great idea for new mobile software, a new way to conduct business over the net, or even how a business could out-manoeuvre its competitors using information technology. You know the importance of IT and you are excited about what IT can do and either want to develop the next big thing yourself or be able to evaluate, identify, choose and integrate from myriad technologies to arrive at a creative solution. This degree will equip you with the knowledge and skills to realise these aspirations. Whether as a professional within an organisation, as a consultant, or as an entrepreneur, you will be well equipped to take advantage of the demand for business-savvy IT professionals who are able to creatively develop or identify IT solutions to help organisations adapt and grow.

Course Structure

The 24-unit degree comprises:
- 16 core units that build your understanding of the relationships between information, technology, business and people
- eight units in a specialisation of your choice – you could choose to further specialise in information technology, a set of units from a different discipline, or optional units from across QUT to complement your studies.

Specialisation options include:
- adult and community learning
- business systems engineering
- construction management – administration
- creative industries management
- databases
- entrepreneurship
- finance
- forensics
- human resource management
- organisational psychology
- information systems
- information management/information technology management
- international studies
- law
- management
- marketing
- public health

Career Outcomes

Career destinations from this degree are management, analyst or consultant roles such as business analyst, project manager, process analyst, program manager, or data manager in fields
Bachelor of Corporate Systems Management - Dean's Scholars Program

ranging from health to finance to media and entertainment services. If you are interested in creating your own business, you may start your own consultancy service to assist businesses in using information technology and improve their business performance. The career possibilities are numerous and relevant experience is in great demand by industry.

Professional Recognition
This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

As a graduate of the Dean's Scholars Program you will be qualified for professional accreditation and employment in fields relevant to your specialisation.

Your Course

Year 1
In your first semester, you will complete the first four core units:
• Impact of IT
• Industry Insights
• Corporate Systems
• Organisational Databases.

In your second semester, you will complete three more core units:
• Management, People and Organisations
• Project Management Practice
• Information Systems Development.

You will also choose your specialisation and complete your first specialisation unit, or start your electives.

Year 2
In first semester, you will complete three core units:
• Business Analysis
• Technology Management
• Creating New Enterprises.

You will also complete your second specialisation unit or electives.

In second semester, you will complete two core units:
• Business Process Modelling
• Corporate Systems Management Project (your final-year showcase project).

You will also complete the last two units of your specialisation or electives.

Note:
The Faculty may wish to make your project or thesis work available to other students undertaking Honours studies as an exemplar. As the copyright owner of the work you have created, the Faculty will respect your rights and will seek your authorisation to share your work.

Financial Support
Domestic students offered a place in the Dean's Scholars Program will have their undergraduate HECS paid by the Faculty and those proceeding to Honours will also receive full HECS support.

International students will have one-third of their tuition fees paid by the faculty for the undergraduate and honours programs.

Students are responsible for all other costs associated with their program.

Cooperative Education Program
The Cooperative Education Program gives students the opportunity of 10-12 months paid industry placement during your course where they can integrate real experience with what they are learning in their degree. Companies that QUT's Coop Ed students have worked with include Enegex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments.

Students participating in this program enrol in INS011 Cooperative Education 1 and INS012 Cooperative Education 2 in the second semester of the program. The cooperative education program and its mentoring and assessment requirements make up the required contact and assessment of both units. Eligibility criteria apply. International students are not eligible due to visa restrictions.

Part-time students who are working in a professional position related to the BGIE may be able to use their current employment to meet the criteria for completing INS011 Cooperative Education 1, after completion of 168 credit points in the Bachelor of Games and Interactive Entertainment, subject to meeting eligibility criteria. Further information about this option is available from Student Services, Level 3, O Block Podium, Gardens Point Campus.

Find out more about the Cooperative Education Program.

Unit Incompatibility/Translation Information
Details on the translation and incompatibility of old and new units is located here:
Undergraduate Translation Table
If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

Intermediate Level Electives
If you have not completed ITB008 you will need to replace it with one of the following intermediate level elective units.
• INB120 Corporate Systems
• INB220Business Analysis
• INB325 Security
• INB272 Interaction Design

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

Domestic Course structure
Your course

Year 1
In your first semester, you will complete the first four core units:
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• Industry Insights
• Corporate Systems
• Organisational Databases.

In second semester, you will complete three more core units:
• Marketing
• Web Sites for Electronic Commerce.

You will also complete two more specialisation units or electives.

Year 3
In your first semester, you will complete two core units:
• Enterprise Systems Applications
• Information Systems Consulting.

You will also complete two more specialisation units or electives.
Bachelor of Corporate Systems Management - Dean's Scholars Program

Two core units:
  - Marketing
  - Web Sites for Electronic Commerce.

You will also complete two more specialisation units or electives.

Year 3
In your first semester, you will complete two core units:
  - Enterprise Systems Applications
  - Information Systems Consulting.

You will also complete two more specialisation units or electives.

In your second semester, you will complete the last two core units:
  - Business Process Modelling
  - Corporate Systems Management Project (your final-year showcase project).

You will also complete the last two units of your specialisation or electives.

Sample Structure

Seminars

Year 1, Semester 1
Year 1, Semester 2
Year 2, Semester 1
Year 2, Semester 2
Year 3, Semester 1
Block B Unit
Block B Unit

You will also complete two more specialisation units or electives.

In your second semester, you will complete the last two core units:
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  - Corporate Systems Management Project (your final-year showcase project).

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International Course Structure

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  - Corporate Systems
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  - Creating New Enterprises.

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In your first semester, you will complete two core units:
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In your second semester, you will complete the last two core units:
  - Business Process Modelling
  - Corporate Systems Management Project (your final-year showcase project).

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Sample Structure

Seminars

Year 1, Semester 1
Year 1, Semester 2
Year 2, Semester 1
Year 2, Semester 2
Year 3, Semester 1
Block B Unit
Block B Unit

You will also complete two more specialisation units or electives.

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  - Marketing
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You will also complete two more specialisation units or electives.

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<tr>
<td>MGB207</td>
<td>Human Resource Issues and Strategy</td>
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<td>MGB200</td>
<td>Leading Organisations</td>
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<td>Learning and Development in Organisations</td>
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<td>MGB339</td>
<td>Performance and Reward</td>
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<td>LWB137</td>
<td>Contracts B</td>
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<tr>
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<td>Legal Foundations A</td>
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<tr>
<td>LWB146</td>
<td>Legal Foundations B</td>
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<td>LWB241</td>
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<td>BSB113</td>
<td>Economics</td>
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<td>Leading Organisations</td>
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<td>Industrial and Organisational Psychology</td>
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<td>Health Promotion Practice</td>
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<tr>
<td>JSB170</td>
<td>Introduction to Criminology and Policing</td>
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<td>Crime Research Methods</td>
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<td>Punishment and Penal Policy</td>
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<td>INB120</td>
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<td>INB220</td>
<td>Business Analysis</td>
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<td>PUB332</td>
<td>Sustainable Environments For Health</td>
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This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=IT06&courseID=15011. CRICOS No.00213j](http://www.student.qut.edu.au/studying/courses/course?courseCode=IT06&courseID=15011. CRICOS No.00213j)
Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

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<th>Component</th>
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<td>Writing</td>
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</tr>
<tr>
<td>Reading</td>
<td>6.0</td>
</tr>
<tr>
<td>Listening</td>
<td>6.0</td>
</tr>
<tr>
<td>Overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Course Update
This course is no longer offered to commencing students. Please refer to IT23 for students commencing in 2009.

Course Design
The course structure is divided into three blocks:

Block 1: Common First Year
All students undertake a Common First Year: the first year full-time or first two years part-time of the course. This block is worth 96 credit points.

Block 2: Major
At the end of the Common First Year, students choose a major area of study. Four single majors and three integrated majors are available. The Major extends over the second and third years of the course for full-time students, and the third to sixth years for part-time students. Students select one of the following Majors:

- Data Communications (DAT)
- Electronic Commerce (ELC)
- Emerging Technologies (EMT)
- Information Systems (ISS)
- Software Engineering (SOF)
- Data Communications/Information Systems (DCI)
- Data Communications/Software Engineering (CDC)

Block 3: General Electives
Students choose the composition of the third block of the course, which extends over the later years of the course and is worth:

- 48 credit points for majors: DAT, SOF, ELC, and ISS; OR
- 24 credit points for majors: EMT, DCI and CDC

Students are encouraged to consider selecting units from outside the Faculty in order to broaden their range of skills.

This course is offered for continuing students only. Please refer to IT23 for students commencing from 2009.

Professional Recognition
Graduates of the Bachelor of Information Technology meet the knowledge requirement for admission to the Australian Computer Society (ACS) as members.

Co-operative Education Program
The Faculty’s Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the Cooperative Education Program.

Unit Incompatibility/Translation Information
Details on the translation and incompatibility of old and new units is located here: Undergraduate Translation Table
If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.
Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
<tbody>
<tr>
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<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
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<tr>
<td>reading</td>
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<tr>
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<td>overall</td>
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</tbody>
</table>

Course Update Information
From semester one, 2009 this course will not be available for commencing students. IT22 will only be available for continuing students. New students - please refer to IT23.

Cooperative Education Program
The Faculty’s Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

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Further Information
For further information about this course, please contact the following:

Course Co-Ordinator
Mr Richard Thomas
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1, Semester 1</td>
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<tr>
<td>INB104 Building IT Systems</td>
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<td>INB103 Industry Insights</td>
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<tr>
<td>INB210 Databases</td>
</tr>
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<td>INB250 Foundations of Computer Science</td>
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<td>Year 1, Semester 2</td>
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<tr>
<td>INB270 Programming</td>
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<tr>
<td>INB251 Networks</td>
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<td>INB271 The Web</td>
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This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT22&courseID=19131. CRICOS No.00213J
Bachelor of Information Technology

Choose one unit from: Intermediate Level Elective list. This choice will replace ITB008 from 2009 course summary.

<table>
<thead>
<tr>
<th>Year 2, Semester 1</th>
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<td>Block B or Block C Unit</td>
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<table>
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<table>
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<th>Year 3, Semester 1</th>
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<tbody>
<tr>
<td>Block B or Block C Unit</td>
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</table>
Minimum English Requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

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<th>Listening</th>
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</tbody>
</table>

Financial Support
Domestic students offered a place in the Dean's Scholars Program will have their undergraduate HECS paid by the Faculty and those proceeding to Honours will also receive full HECS support.

International students will have one-third of their tuition fees paid by the faculty for the undergraduate and honours programs.

Students are responsible for all other costs associated with their program.

Cooperative Education Program
The Faculty's Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you're learning in your degree. Students wishing to participate in the Cooperative Education Program should be aware that they will not receive financial support as a Dean's Scholar for the duration of the placement.

Find out more about the Cooperative Education Program.

New Unit Translations/Incompatibility Table
Details on the translation and incompatibility of old and new units is located here: Undergraduate Translation Table and Postgraduate Translation Table. If you have completed the unit(s) listed under the "Translation Unit Codes" column you are not permitted to enrol in the listed new code.

Professional Recognition
As a graduate of the Dean's Scholars Program you will be qualified for professional accreditation and employment in fields relevant to your specialisation.

Further Information
For further information about this course, please contact the following:

Richard Thomas
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
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<td>Course Structure</td>
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Bachelor of Information Technology - Dean's Scholars Program

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This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT22&courseID=19150. CRICOS No.00213J
Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4,SA) and Maths A, B or C (4,SA)).

International Subject prerequisites
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4,SA) and Maths A, B or C (4,SA)).

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
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<th>reading</th>
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<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Pathways
You have the opportunity to choose a study pathway:
- **professional pathway** – you will learn how to think strategically, identify opportunities and solve problems that we don’t even know are problems yet. This pathway will enable you to acquire the business and IT skills to have a career as an IT professional within any industry.
- **research pathway** – if you are interested in shaping the future of the IT industry you can pursue a research career. You will have opportunities to work with researchers on projects and progress on to an honours degree. You will have access to world-leading researchers within the Faculty.
- **entrepreneurship pathway** – you now have the opportunity to gain the entrepreneurial skills to develop an idea into a commercial opportunity. You will be able to take advantage of the Faculty’s close relationship with local technology entrepreneurs to learn from their experiences.

In 2001, the Faculty introduced an accelerated Honours program to increase the number of Bachelor of Information Technology students continuing their studies to complete the Honours year. The program allowed selected high achieving students the opportunity to undertake one postgraduate unit in the final semester of the Bachelor of Information Technology which would be counted both for completion of the degree and towards Honours. The program also provided students with the opportunity to commence their Honours studies over the Summer Semester.

The Dean’s Scholars program was introduced in Semester 1, 2006. This program provides a scholarship for OP 1 and 2 students throughout their Bachelor and Honours degrees. Students in the program are required to maintain a high GPA to continue to qualify for the scholarship each semester. Students in the Dean’s Scholars program will be able to take advantage of the Accelerated Honours program. Students in the Dean’s Scholars program will have an option to follow an accelerated pathway through the Bachelor of Information Technology, allowing them to complete the Bachelor of Information Technology course plus the Bachelor of Information (Honours) course in a total of three years.

To encourage students to enter the Dean’s Scholars program, domestic students have their undergraduate HECS paid by the Faculty and those proceeding to Honour’s level will also receive full HECS support. International students who have completed a Year 12 education in Australia and meet the entry requirements for the program will have a third of their tuition fees paid by the Faculty for the program. An alternative to the Honours program is the Master of Information Technology (Research). Students who complete IT23 with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.
Design Your Own Degree
The Bachelor of Information Technology provides you with the practical skills and theoretical knowledge to become an effective professional.

The 24-unit degree comprises:

• **eight core units** – four introductory units in first semester to introduce you to the breadth of information technology and its relationship to modern society. Then there are four advanced units spread over the rest of your degree program to develop your professional skills in preparation for your career

• **four breadth units** (intermediate level units) – these units give you broad technical experience across a range of fields in information technology. They also give you an introduction to choose the specialisation you wish to focus on

• **four specialisation units** (advanced level units) – these units allow you to focus on your chosen area of study, or you may choose to continue to broaden your information technology skills. This option allows you to study across a selection of study areas rather than focusing on one specialisation

• **eight optional units** – these units allow you to customise your degree by studying in another professional discipline (for example, business, health, or science). Or you may choose to gain further depth in other areas of information technology.

SPECIALISATION AREAS

**Business Process Management**
Learn how to increase business efficiency. All businesses require IT to effectively and efficiently support their operations. This specialisation provides you with the skills required to improve business performance.

**Data Warehousing**
Database technology, the software that enables us to buy concert tickets online, download music or book a flight, is sophisticated and complex. You will gain knowledge and skills in the accurate recording, rapid retrieval and management of data that is essential to modern society. You will learn how to mine existing sets of data to extract hidden knowledge.

**Digital Environments**
Study how developments in IT shape society through applications like FaceBook, MySpace, Second Life, smart phones, iPods and gaming devices.

**Enterprise Systems**
Enterprise systems from vendors like SAP, Mincom and Oracle form the fundamental structure of organisational processes in most large organisations. You will gain hands-on experience with successful enterprise systems to enable you to put into practice the theory that supports business activities.

**Network Systems**
Learn to tackle emerging network issues such as security, network monitoring and high availability design, and gain up-to-date technical skills for the administration and management of computer networks.

**Software Engineering**
Software is the invisible infrastructure of modern society. Almost all aspects of business and social endeavour are facilitated by software applications or devices controlled by software. You will learn how leading-edge techniques and technologies enable you to design and implement complex software systems for use in a wide range of domains.

**Web Technologies**
Web technologies are the principal mechanism for integrating the various applications that exist within an organisation. They also provide the main user interface for most applications used by internal and external clients, including modern web-based interfaces. You will develop practical skills to help organisations use web technologies effectively in deploying a range of applications and services.

Career Outcomes
Information technology is an integral part of all commercial, industrial, government, social and personal activities. In the long term, your career opportunities are unbounded. Some information technology graduates retain a technical focus in roles such as web developer, database manager, network administrator, electronic commerce developer, data communications specialist, software engineer, systems programmer, computer scientist, systems analyst or programmer. Others evolve into domain experts as chief technology officers, chief information officers, managers, executives, business analysts, entrepreneurs or researchers. Graduates have the opportunity to achieve the highest levels of their profession.

Professional Recognition
This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Your Course

**Year 1**
In your first semester you will explore how information technology has changed the world and what the possibilities are for the future. You will look at the details of information, computing and communication technologies to understand how they work. You will take part in hands-on projects developing small information technology systems.

Core units for Year 1:
• Impact of IT
• Emerging Technology
• Industry Insights
• Building IT Systems

In Semester 2 you will undertake three breadth units and one elective.

**Year 2**
In your second year you will take part in a collaborative team setting, working on small projects that integrate the skills you learnt during Year 1. You will also start studying more advanced units in your chosen field of specialisation.

Core unit for Year 2:
• Scalable Systems Development

Throughout Year 2 you will undertake one breadth unit, two specialisation units and four elective units.

**Year 3**
In third year you will be able to undertake workplace experience opportunities offered by the Faculty, while earning credit towards your degree. You will continue studying in your area of specialisation. In your final semester you will develop a major project, showcasing what you have learnt during your degree—providing you with a key part of your portfolio when seeking a job.

Core units for Year 3:
• Professional Practice in IT
• The Business of IT
• IT Capstone Project

Throughout Year 3 you will undertake two specialisation units and three elective units.

Cooperative Education Program
An optional half or full year period of paid work experience is available to eligible full-time students. Students participating in this program enrol in INS011 Co-Operative Education 1 in the first semester of the program and in INS012 Co-Operative Education 2 in the second semester of the program. The cooperative
Bachelor of Information Technology

education program and its mentoring and assessment requirements make up the required contact and assessment components of both units. Eligibility criteria apply. International students are not eligible due to visa restrictions. International students wishing to undertake a similar program should consider applying to take part in a CEED project or for an ACS Foundation scholarship.

Part-time students who are working in a professional IT position may be able to use their current employment to meet the criteria for completing INB300 Professional Practice in IT, after completion of 168 credit points in the Bachelor of Information Technology. Further information about this option is available from the unit outline for INB300.

Further Information
For further information about this course, please contact the following:

Course Co-ordinator
Mr Mike Roggenkamp
Phone: +61 7 3138 8622
Email: sef.enquiry@qut.edu.au

Domestic Course structure
Design your own degree
The Bachelor of Information Technology provides you with the practical skills and theoretical knowledge to become an effective professional. The 24-unit degree comprises:

- eight core units - four introductory units in first semester to introduce you to the breadth of information technology and its relationship to modern society. Then there are four advanced units spread over the rest of your degree program to develop your professional skills in preparation for your career
- four breadth units (intermediate level units) - these units give you broad technical experience across a range of fields in information technology. They also give you an introduction to choose the specialisation you wish to focus on
- four specialisation units (advanced level units) - these units allow you to focus on your chosen area of study, or you may choose to continue to broaden your information technology skills. This option allows you to study across a selection of study areas rather than focusing on one specialisation
- eight optional units - these units allow you to customise your degree

by studying in another professional discipline (for example, business, health, or science). Or you may choose to gain further depth in other areas of information technology.

Specialisation areas
Business Process Management
Learn how to increase business efficiency. All businesses require IT to effectively and efficiently support their operations. This specialisation provides you with the skills required to improve business performance.

Data Warehousing
Database technology, the software that enables us to buy concert tickets online, download music or book a flight, is sophisticated and complex. You will gain knowledge and skills in the accurate recording, rapid retrieval and management of data that is essential to modern society. You will learn how to search existing sets of data to extract hidden knowledge.

Digital Environments
Study how developments in IT shape society through applications like Facebook, Twitter, Second Life, smart phones, iPods and gaming devices.

Enterprise Systems
Enterprise systems from vendors like SAP, Mincom and Oracle form the fundamental structure of organisational processes in most large organisations. You will gain hands-on experience with successful enterprise systems to enable you to put into practice the theory that supports business activities.

Network Systems
Learn to tackle emerging network issues such as security, network monitoring and high availability design, and gain up-to-date technical skills for the administration and management of computer networks.

Software Engineering
Software is the invisible infrastructure of modern society. Almost all aspects of business and social endeavour are facilitated by software applications or devices controlled by software. You will learn leading-edge techniques and technologies to enable you to design and implement complex software systems for use in a wide range of domains.

Web Technologies
Web technologies are the principal mechanism for integrating the various applications that exist within an organisation. They also provide the main user interface for most applications used by internal and external clients, including modern web-based interfaces. You will develop practical skills to help organisations use web technologies effectively in deploying a range of applications and services.

Your course
Year 1
In your first semester you will explore how information technology has changed the world and what the possibilities are for the future. You will look at the details of information, computing and communication technologies to understand how they work. You will take part in hands-on projects developing small information technology systems.

Core units for Semester 1:
- Impact of IT
- Emerging Technology
- Industry Insights
- Building IT Systems.

In Semester 2 you will undertake three breadth units and one optional unit.

Year 2
In your second year you will take part in a collaborative team setting, working on small projects that integrate the skills you learnt during Year 1. You will also start studying more advanced units in your chosen field of specialisation.

Core unit for Year 2:
- Scalable Systems Development.

Throughout Year 2 you will undertake a mix of breadth, specialisation and optional units.

Year 3
In third year you will be able to undertake workplace experience opportunities offered by the Faculty. In your final semester you will develop a major project, which will showcase what you have learnt during your degree and provide you with a key part of your portfolio when seeking a job.

Core units for Year 3:
- Professional Practice in IT
- The Business of IT
- IT Capstone Project.

International Course structure
Design your own degree
The Bachelor of Information Technology provides you with the practical skills and theoretical knowledge to become an effective professional. The 24-unit degree comprises:

- eight core units - four introductory

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studypg/courses/course?courseCode=IT23&courseID=14930. CRICOS No.00213J
Bachelor of Information Technology

units in first semester to introduce you to the breadth of information technology and its relationship to modern society. Then there are four advanced units spread over the rest of your degree program to develop your professional skills in preparation for your career.

- four breadth units (intermediate level units) - these units give you broad technical experience across a range of fields in information technology. They also give you an introduction to choose the specialisation you wish to focus on.
- four specialisation units (advanced level units) - these units allow you to focus on your chosen area of study, or you may choose to continue to broaden your information technology skills. This option allows you to study across a selection of study areas rather than focusing on one specialisation.
- eight optional units - these units allow you to customise your degree by studying in another professional discipline (for example, business, health, or science). Or you may choose to gain further depth in other areas of information technology.

Specialisation areas

Business Process Management
Learn how to increase business efficiency. All businesses require IT to effectively and efficiently support their operations. This specialisation provides you with the skills required to improve business performance.

Data Warehousing
Database technology, the software that enables us to buy concert tickets online, download music or book a flight, is sophisticated and complex. You will gain knowledge and skills in the accurate recording, rapid retrieval and management of data that is essential to modern society. You will learn how to search existing sets of data to extract hidden knowledge.

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Learn to tackle emerging network issues such as security, network monitoring and high availability design, and gain up-to-date technical skills for the administration and management of computer networks.

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Software is the invisible infrastructure of modern society. Almost all aspects of business and social endeavour are facilitated by software applications or devices controlled by software. You will learn leading-edge techniques and technologies to enable you to design and implement complex software systems for use in a wide range of domains.

Web Technologies
Web technologies are the principal mechanism for integrating the various applications that exist within an organisation. They also provide the main user interface for most applications used by internal and external clients, including modern web-based interfaces. You will develop practical skills to help organisations use web technologies effectively in deploying a range of applications and services.

Your course

Year 1
In your first semester you will explore how information technology has changed the world and what the possibilities are for the future. You will look at the details of information, computing and communication technologies to understand how they work. You will take part in hands-on projects developing small information technology systems.

Core units for Semester 1:
- Impact of IT
- Emerging Technology
- Industry Insights
- Building IT Systems.

In Semester 2 you will undertake three breadth units and one optional unit.

Year 2
In your second year you will take part in a collaborative team setting, working on small projects that integrate the skills you learnt during Year 1. You will also start studying more advanced units in your chosen field of specialisation.

Core unit for Year 2:
- Scalable Systems Development.

Throughout Year 2 you will undertake a mix of breadth, specialisation and optional units.

Year 3
In third year you will be able to undertake workplace experience opportunities offered by the Faculty. In your final semester you will develop a major project, which will showcase what you have learnt during your degree and provide you with a key part of your portfolio when seeking a job.

Core units for Year 3:
- Professional Practice in IT
- The Business of IT
- IT Capstone Project.

Sample Structure

Seminsters

- Year 1, Semester 1
- Year 1, Semester 2
- Year 2, Semester 1
- Year 2, Semester 2
- Year 3, Semester 1
- Year 3, Semester 2

Code | Title
--- | ---
INB101 | Impact of IT
INB102 | Emerging Technology
INB103 | Industry Insights
INB104 | Building IT Systems
INB201 | Scalable Systems Development
INB300 | Professional Practice in IT
INB301 | The Business of IT

[Note: INB201 can only be taken after you have completed a minimum of 36 credit points of breadth units. Please note: INB201 available semester 1 only.]

Core units for Year 3:
- IT Breadth Option Unit
- IT Breadth Option Unit
- IT Breadth Option Unit
- Complementary Studies Unit

Year 2, Semester 1

- IT Specialisation Option Unit
- Complementary Studies Unit

Year 2, Semester 2

- IT Specialisation Option Unit
- Complementary Studies Unit
- Complementary Studies Unit

Year 3, Semester 1

- INB300 | Professional Practice in IT
- INB301 | The Business of IT

[Note: INB300 and INB301 can only be taken after you have completed a minimum of 168 credit points of study.]

- IT Specialisation Option Unit
- Complementary Studies Unit

Year 3, Semester 2
# Bachelor of Information Technology

**INB302**  IT Capstone Project

[Note: INB301 must be completed before enrolling in INB302.]

IT Specialisation Option Unit

Complementary Studies Unit

Complementary Studies Unit
Bachelor of Information Technology - Dean's Scholars Program

<table>
<thead>
<tr>
<th>Year</th>
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</thead>
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<tr>
<td>Campus</td>
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<td>Domestic fee (indicative)</td>
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<td>International fee (indicative)</td>
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<td>February Fixed closing date - 30 November</td>
</tr>
<tr>
<td>Int. Start Months</td>
<td>February Fixed closing date - 30 November</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Richard Thomas</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td></td>
</tr>
</tbody>
</table>

**Domestic Entry requirements**
2012 applications and registrations have closed. Applications at QTAC and submission of the online questionnaire with QUT for 2012 was due on the 30 November 2011 and have now closed. Late applications and/or questionnaire submissions will not be accepted.

Applicants are required to complete an online questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

**Domestic Assumed knowledge**
Before you start this course we assume you have sound knowledge in these areas
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths A, B or C (4, SA)).

**International Entry requirements**
Must be a current Year 12 student or students returning from a gap year who completed their Year 12 education in Australia; successful questionnaire; an interview may be required.

Shortlisted registrants may be required to attend an interview in December and will be notified of date and venue after registrations close.

**International Subject prerequisites**
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths A, B or C (4, SA)).

**Minimum English requirements**
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>speaking</th>
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<th>reading</th>
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<tbody>
<tr>
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</tbody>
</table>

**Financial support**
Domestic students offered a place in the Dean's Scholars Program will have their undergraduate HECS paid by the Faculty and those proceeding to Honours will also receive full HECS support.

International students will have one-third of their tuition fees paid by the faculty for the undergraduate and honours programs.

Students are responsible for all other costs associated with their program.

**Cooperative Education Program**
The Faculty's Cooperative Education Program gives you the opportunity of 6 or 12 months paid industry placement during your course where you can integrate real experience with what you are learning in your degree.

Find out more about the Cooperative Education Program.

**Professional Recognition**
As a graduate of the Dean's Scholars Program you will be qualified for professional accreditation and employment in fields relevant to your specialisation.

**Unit Incompatibility/Translation Information**
Details on the translation and incompatibility of old and new units is located here: Undergraduate Translation Table
If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code

**Further Information**
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

**Domestic Course structure**
**Design your own degree**
The Bachelor of Information Technology provides you with the practical skills and theoretical knowledge to become an effective professional. The 24-unit degree comprises:
- 8 core units - 4 introductory units in

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT23&courseID=15012. CRICOS No.00213J
Your course

Year 1

In your first semester you will explore how information technology has changed the world and what the possibilities are for the future. You will look at the details of information, computing and communication technologies to understand how they work. You will take part in hands-on projects developing small information technology systems.

Core units for Year 1:
- Impact of IT
- Emerging Technology
- Industry Insights
- Building IT Systems.

In Semester 2 you will undertake three breadth units and one optional unit.

Year 2

In your second year you will take part in a collaborative team setting, working on small projects that integrate the skills you learnt during Year 1. You will also start studying more advanced units in your chosen field of specialisation.

Core unit for Year 2:
- Scalable Systems Development.

Throughout Year 2 you will undertake one breadth unit, two specialisation units and four optional units.

Year 3

In third year you will be able to undertake workplace experience opportunities offered by the Faculty, while earning credit towards your degree. You will continue studying in your area of specialisation. In your final semester you will develop a major project, which will showcase what you have learnt during your degree and provide you with a key part of your portfolio when seeking a job.

Core units for Year 3:
- Professional Practice in IT
- The Business of IT
- IT Capstone Project.

Throughout Year 3 you will undertake two specialisation units and three optional units.

International Course structure

Design your own degree

The Bachelor of Information Technology provides you with the practical skills and theoretical knowledge to become an effective professional. The 24-unit degree comprises:

- 8 core units - 4 introductory units in first semester to introduce you to the breadth of information technology and its relationship to modern society. Then there are 4 advanced units spread over the rest of your degree program to develop your professional skills in preparation for your career
- 4 breadth units (intermediate level units) - these units give you broad technical experience across a range of fields in information technology. They also give you an introduction to the specialisation you wish to focus on
- 4 specialisation units (advanced level units) - these units allow you to focus on your chosen area of study, or you may choose to continue to broaden your information technology skills. This option allows you to study across a selection of study areas rather than focusing on one specialisation
- 8 optional units - these units allow you to customise your degree by studying in another professional discipline (for example, business, health, or science). Or you may choose to gain further depth in other areas of information technology.

Sample Structure

Seminesters

- Year 1, Semester 1
- Year 1, Semester 2
- Year 2, Semester 1
- Year 2, Semester 2
- Year 3, Semester 1
- Year 3, Semester 2
- Year 3, Summer

Code | Title
--- | ---
INB101 | Impact of IT
INB102 | Emerging Technology
INB103 | Industry Insights
### Bachelor of Information Technology - Dean’s Scholars Program

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester</th>
<th>Type</th>
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<td>INB104</td>
<td>Building IT Systems</td>
<td>Year 1, Semester 2</td>
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<td>Complementary Studies unit (Elective)</td>
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<tr>
<td>INB201</td>
<td>Scalable Systems Development</td>
<td>Year 2, Semester 1</td>
<td>Breadth Option</td>
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<td>Specialisation Option</td>
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<td></td>
<td>Complementary Studies unit (Elective)</td>
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<td>INB301</td>
<td>The Business of IT</td>
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<td>Specialisation Option</td>
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<td>Complementary Studies unit (Elective)</td>
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<td>INB300</td>
<td>Professional Practice in IT</td>
<td>Year 3, Semester 1</td>
<td>Specialisation Option</td>
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<td>INB302</td>
<td>IT Capstone Project</td>
<td>Year 3, Semester 1</td>
<td>Postgraduate IT Unit</td>
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<td>Complementary Studies unit (Elective)</td>
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<td>INN700</td>
<td>Introduction To Research</td>
<td>Year 3, Semester 2</td>
<td>Postgraduate IT Unit</td>
</tr>
<tr>
<td>INN701</td>
<td>Advanced Research Topics</td>
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<td>Postgraduate IT Unit</td>
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<td>INN401</td>
<td>Honours Dissertation 1</td>
<td>Year 3, Summer</td>
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<tr>
<td>INN402</td>
<td>Honours Dissertation 2</td>
<td>Year 3, Summer</td>
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<tr>
<td>INN403</td>
<td>Honours Dissertation 3</td>
<td>Year 3, Summer</td>
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<tr>
<td>INN404</td>
<td>Honours Dissertation 4</td>
<td>Year 3, Summer</td>
<td></td>
</tr>
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</table>

**Note:**
From Year 2-Semester 1 to Year 3-Semester 1, students may vary which semester they undertake their Specialisation Options or Complementary Studies units.
## Handbook

**Minimum english requirements**
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</table>

**DISCONTINUATION**
As of Semester 1 2009, IX25 has been discontinued. Software Engineering is now available in the EN40 Bachelor of Engineering course.

**Special Note**
Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

**Further Information**
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

### Table: Bachelor of Engineering (Software Engineering)

<table>
<thead>
<tr>
<th><strong>Year</strong></th>
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<tbody>
<tr>
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<tr>
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<td><strong>OP Guarantee</strong></td>
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<td><strong>Campus</strong></td>
<td>Gardens Point</td>
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<tr>
<td><strong>Total credit points</strong></td>
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<td><strong>Credit points full-time sem.</strong></td>
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<td><strong>Start months</strong></td>
<td>February</td>
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<td>February</td>
</tr>
<tr>
<td><strong>Course Coordinator</strong></td>
<td>Dr R.Mahalinga-Iyer</td>
</tr>
<tr>
<td><strong>Discipline Coordinator</strong></td>
<td>Dr Wayne Kelly (replacing Dr Jasmine Banks July 2012)</td>
</tr>
</tbody>
</table>
Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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<tbody>
<tr>
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<tr>
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</tr>
<tr>
<td>listening</td>
<td>6.0</td>
<td></td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
<td></td>
</tr>
</tbody>
</table>

Discontinued Course
LS50 has been discontinued and replaced by ST50. LS50 is for continuing students only.

Course Design
The Bachelor of Biotechnology Innovation, a degree with Honours, was the first degree of its type in Australia and aims to provide highly trained and motivated graduates skilled in the science and business and biotechnology. Graduates undertake the same basic and advanced biotechnology science as students in other science-based courses, gaining requisite theoretical and practical skills. In this course, however, basic and advanced business units are undertaken highlighting entrepreneurial skills and biotechnology commercialisation. Integration and synthesis of the disparate disciplines is an essential component of the course.

Unique to the course is the Student BioEnterprise Scheme, a proactive project-based learning exercise promoting the integration of theory and practice in business and science. Students form companies and operate in the company environment over the entire duration of their course. Companies invent biotechnology-oriented products or processes and formulate strategies to bring them from laboratory to the marketplace under the guidance of industry and academic mentors. Students have many opportunities to network with industry through the Student BioEnterprise Scheme and numerous Ausbiotech functions, events and conferences. Companies can also undertake industry-based or consultancy projects with an industry partner in the final year of the course.

Professional Recognition
On graduation, you will be immediately eligible for graduate membership of AusBiotech Ltd and the Australian Society for Biochemistry and Molecular Biology (ASBMB).

Contact Details
For further information about this course, please contact:

Course Coordinator
Associate Professor Chris Collet
Phone: +61 7 3138 5173
Email: c.collet@qut.edu.au

Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
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<th>Title</th>
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</thead>
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<tr>
<td>Year 1 - Semester 1</td>
<td>BSB115</td>
<td>Management</td>
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<tr>
<td></td>
<td>MAB101</td>
<td>Statistical Data Analysis 1</td>
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<tr>
<td></td>
<td>SCB111</td>
<td>Chemistry 1</td>
</tr>
<tr>
<td></td>
<td>SCB112</td>
<td>Cellular Basis of Life</td>
</tr>
<tr>
<td>Year 1, Semester 2</td>
<td>BSB126</td>
<td>Marketing</td>
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<tr>
<td></td>
<td></td>
<td>Principles of Human Physiology</td>
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<tr>
<td></td>
<td>SCB121</td>
<td>Chemistry 2</td>
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<tr>
<td></td>
<td>SCB122</td>
<td>Cell and Molecular Biology</td>
</tr>
<tr>
<td>Year 2, Semester 1</td>
<td>AMB240</td>
<td>Marketing Planning and Management</td>
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<tr>
<td></td>
<td>LQB383</td>
<td>Molecular and Cellular Regulation</td>
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<td>LQB386</td>
<td>Microbial Structure and Function</td>
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<td></td>
<td>LSB325</td>
<td>Biochemistry</td>
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<tr>
<td>Year 2, Semester 2</td>
<td>LQB483</td>
<td>Molecular Biology Techniques</td>
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<td>LQB484</td>
<td>Introduction to Genomics and Bioinformatics</td>
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<td>LQB489</td>
<td>Plant Physiology and Cell Biology</td>
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<tr>
<td></td>
<td>MGB223</td>
<td>Entrepreneurship and Innovation</td>
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<tr>
<td>Year 3, Semester 1</td>
<td>LQB582</td>
<td>Biomedical Research Technologies</td>
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<td>LQB583</td>
<td>Genetic Research Technology</td>
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<td></td>
<td>LWS007</td>
<td>Introduction To Intellectual Property Law</td>
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<tr>
<td>Year 3, Semester 2</td>
<td>Year 4, Semester 1</td>
<td>Year 4, Semester 2</td>
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<td>MGB324 Managing Business Growth</td>
<td>LQB584 Medical Cell Biology</td>
<td>LSB709-2 Biotechnology Research Project</td>
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<tr>
<td>BSB311 Innovation Commercialisation Strategies</td>
<td>LQB585 Plant Genetic Manipulation</td>
<td>LSB709-3 Biotechnology Research Project</td>
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<tr>
<td>LQB682 Protein Biochemistry and Bioengineering</td>
<td>LSB709 Biotechnology Research Project</td>
<td>Plus any TWO of the following three units:</td>
</tr>
<tr>
<td>LQB686 Microbial Technology and Immunology</td>
<td>MGB225 Intercultural Communication and Negotiation Skills</td>
<td>LQB684 Medical Biotechnology</td>
</tr>
<tr>
<td>MGB200 Leading Organisations</td>
<td></td>
<td>LQB685 Plant Microbe Interactions</td>
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<tr>
<td></td>
<td></td>
<td>MGB309 Strategic Management</td>
</tr>
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</table>

For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=LS50&courseID=19153. CRICOS No.00213J
Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)).

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)).

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

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<th>Band</th>
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<td>Speaking</td>
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<tr>
<td>Reading</td>
<td>6.0</td>
</tr>
<tr>
<td>Listening</td>
<td>6.0</td>
</tr>
<tr>
<td>Overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Why Choose This Course
The course’s flexible structure allows you to choose to study only mathematics units, or include some units from another area of interest, such as science, business or information technology. You will be able to design a program to suit your interests and career aspirations by combining advanced units from a number of mathematical specialisations.

Financial Support
You should consider applying for an industry-sponsored mathematics bursary to help you financially throughout your studies. For further information visit scholarships.

Your Course
Year 1
You will study core units in mathematics and statistics. These core units include studies in calculus, algebra, vectors and matrices, computational mathematics, data analysis and statistical modelling.

Year 2
You will build on your core studies by advancing to more specialised topics such as advanced calculus, linear algebra, differential equations, operations research, data visualisation, statistics or modelling. Your practical assignments will tackle problems faced in the real world. You can choose to study only mathematics units or include units from another area of interest, such as science, business, information technology or a language.

Year 3
Refine your studies by combining advanced units from the following specialisations:
- applied mathematics: using mathematical techniques to solve real-world problems
- computational mathematics: using computers and numerical techniques to find solutions to complex problems which cannot be solved analytically
- discrete mathematics: the mathematics of numbers, including sets, fields, rings and groups which is used extensively in information security
- financial mathematics: applying a wide variety of mathematical techniques for use in a range of financial areas
- mathematical modelling: using mathematical techniques to develop a model or explanation of a real-world problem which can then be tested
- operations research: optimising complex systems including queuing, scheduling or allocation of resources
- scientific computation and visualisation: large-scale scientific modelling and creating graphical representations using visualisation techniques
- statistics: collecting data in an appropriate format, experimental design, analysis of data and using data to make predictions
- statistical modelling: building and analysing models of systems involving probability and variables.

Further Information
For further information about this course, please contact:

Course Coordinator
Dr Glenn Fulford
Phone: +61 7 3138 5196
Email: sms.ma54coord@qut.edu.au
### Bachelor of Mathematics

#### Domestic Course structure

**Your Course**

**Year 1**

You will study core units in mathematics and statistics. These core units include studies in calculus, algebra, vectors and matrices, computational mathematics, data analysis and statistical modelling.

**Year 2**

You will build on your core studies by advancing to more specialised topics such as advanced calculus, linear algebra, differential equations, operations research, data visualisation, statistics or modelling. Your practical assignments will tackle problems faced in the real world. You can choose to study only mathematics units or include units from another area of interest, such as science, business, information technology or a language.

**Year 3**

Refine your studies by combining advanced units from the following specialisations:

- applied mathematics: using mathematical techniques to solve real-world problems
- computational mathematics: using computers and numerical techniques to find solutions to complex problems which cannot be solved analytically
- discrete mathematics: the mathematics of numbers, including sets, fields, rings and groups which is used extensively in information security
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#### International Course structure

**Your Course**

**Year 1**

You will study core units in mathematics and statistics. These core units include studies in calculus, algebra, vectors and matrices, computational mathematics, data analysis and statistical modelling.

**Year 2**

You will build on your core studies by advancing to more specialised topics such as advanced calculus, linear algebra, differential equations, operations research, data visualisation, statistics or modelling. Your practical assignments will tackle problems faced in the real world. You can choose to study only mathematics units or include units from another area of interest, such as science, business, information technology or a language.

**Year 3**

Refine your studies by combining advanced units from the following specialisations:

- applied mathematics: using mathematical techniques to solve real-world problems
- computational mathematics: using computers and numerical techniques to find solutions to complex problems which cannot be solved analytically
- discrete mathematics: the mathematics of numbers, including sets, fields, rings and groups which is used extensively in information security
- financial mathematics: applying a wide variety of mathematical techniques for use in a range of financial areas
- mathematical modelling: using mathematical techniques to develop a model or explanation of a real-world problem which can then be tested
- operations research: optimising complex systems including queuing, scheduling or allocation of resources
- scientific computation and visualisation: large-scale scientific modelling and creating graphical representations using visualisation techniques
- statistics: collecting data in an appropriate format, experimental design, analysis of data and using data to make predictions
- statistical modelling: building and analysing models of systems involving probability and variables.

#### Sample Structure

**Semesters**

- **Level 1 Mathematics Units**
- **Level 2 and 3 Mathematics Units**
- **Other Units - Complementary Studies**

**Course Notes**

Students complete at least 192 credit points (16 twelve credit point units) of Mathematics units according to the following requirements:

- **Level 1 Mathematics Units**
  - Students must complete the following Level 1 Mathematics units:
    - MAB101 Statistical Data Analysis 1
    - MAB120 Algebra and Calculus
    - MAB121 Calculus and Differential Equations
    - MAB122 Algebra and Analytic Geometry
    - MAB210 Statistical Modelling 1
    - MAB220 Computational Mathematics 1
  - Note: MAB120 is for students who do not have an exit assessment of at least Sound Achievement in four semesters of both Senior Mathematics B and Senior Mathematics C. Students with at least Sound Achievement in both Mathematics B and C (or equivalent) may select a level 2 Mathematics unit instead of MAB120.

- **Level 2 and 3 Mathematics Units**
  - At least 120 credit points (10 twelve credit point units) must be taken from Level 2 and Level 3 Mathematics units with at least 48 credit points (4 twelve credit point units) from Level 3 mathematics units
  - Students must complete:
    - MAB311 Advanced Calculus
    - MAB312 Linear Algebra

- **Other Units - Complementary Studies**
  - Up to a maximum of 96 credit points may be taken as electives with not more than 48 credit points from first level units.
Domestic Entry requirements
2012 applications and registrations have closed.
Applications at QTAC and submission of the online questionnaire with QUT for 2012 was due on the 30 November 2011 and have now closed. Late applications and/or questionnaire submissions will not be accepted.

Applicants are required to complete an online questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Physics
- Maths C
- Maths B
- English
- Chemistry

Assumed knowledge includes English (4, SA) and Maths B (4, VHA) plus two (2) of Biological Science, Chemistry, Earth Science, Maths C or Physics (4, VHA)

International Entry requirements
International Students must have completed year 12 at an Australian school.

Applicants are required to complete a questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

International Subject prerequisites
- Physics
- Maths C
- Maths B
- English
- Chemistry

Subject prerequisites include English (4, SA) and Maths B (4, VHA) plus two (2) of Biological Science, Chemistry, Earth Science, Maths C or Physics (4, VHA)

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
## Bachelor of Mathematics & Bachelor of Applied Science (Honours) - Dean's Scholars Honours Program

### Dean's Scholars Program enrichment unit:

<table>
<thead>
<tr>
<th>SCB501 1</th>
<th>Research Project for Dean's Scholars</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Normal BMaths and BAppSc(Hons) units: BAppSc Coursework (36 cp)</td>
</tr>
</tbody>
</table>

**Year 3, Semester 2 (48 cp)**

### Dean's Scholars Program enrichment unit:

<table>
<thead>
<tr>
<th>SCB501 2</th>
<th>Research Project for Dean's Scholars</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Normal BMaths and BAppSc(Hons) units: BMaths Coursework (36 cp)</td>
</tr>
</tbody>
</table>

**Year 4, Semester 1 (48 cp) and Semester 2 (48 cp)**

|          | Normal BMaths and BAppSc(Hons) units: BAppSc(Hons) Coursework/Research (48 cp) |
|          | Normal BMaths and BAppSc(Hons) units: BAppSc(Hons) Coursework/Research (48 cp) |

### Notes:

- The exact timing of Dean’s Scholars Program enrichment units may be varied to suit the student’s chosen program of study.

- It is also possible to complete the program in 3.5 years using a combination of the 3 and 4 year structures. There is also flexibility for students to undertake Dean’s Scholars Program enrichment units during the summer semesters between years 1 and 2, and years 2 and 3 to lighten regular semester study loads or to assist in acceleration.

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This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=MA54 + SC60&courseID=19350. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=MA54 + SC60&courseID=19350. CRICOS No.00213J)
Bachelor of Engineering (Mechanical)

Handbook

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Special Note
This course has been discontinued. Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
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</thead>
<tbody>
<tr>
<td>QUT code</td>
<td>ME41</td>
</tr>
<tr>
<td>CRICOS</td>
<td>003490G</td>
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<tr>
<td>Duration (full-time)</td>
<td>4 years</td>
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<tr>
<td>Rank</td>
<td>80</td>
</tr>
<tr>
<td>OP Guarantee</td>
<td>Yes</td>
</tr>
<tr>
<td>Campus</td>
<td>Gardens Point</td>
</tr>
<tr>
<td>Domestic fee (indicative)</td>
<td>2011: CSP $3,878 per semester</td>
</tr>
<tr>
<td>International fee (indicative)</td>
<td>2011: $12,375 per semester</td>
</tr>
<tr>
<td>Total credit points</td>
<td>384</td>
</tr>
<tr>
<td>Credit points full-time sem.</td>
<td>48</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Dr R.Mahalinga-Iyer</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Dr Gary Chadwick</td>
</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=ME41&courseID=19830. CRICOS No.00213J
Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)).

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies in English (4, SA) and Maths B (4, SA).

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking 6.0</td>
</tr>
<tr>
<td>writing 6.0</td>
</tr>
<tr>
<td>reading 6.0</td>
</tr>
<tr>
<td>listening 6.0</td>
</tr>
<tr>
<td>overall 6.5</td>
</tr>
</tbody>
</table>

Course update
As of 2013, this course will only be available for continuing Bachelor of Applied Science students and those students who are commencing in 2013 with advanced standing of 96 credit points of 1st year units.

New students - please refer to ST01 Bachelor of Science. Please contact sef.enquiry@qut.edu.au for any enquiries.

Design your own degree
You have a broad range of options to choose from and the flexibility to create your own personal science degree program. If you are not sure of your career direction, don't worry because this decision can be delayed until after you have sampled a range of science disciplines during your first year of study.

The 24 unit degree comprises:
- First-year program (eight units)
  The first year is designed to give you experience in a wide range of basic science disciplines, consisting of three general foundation units, one maths unit, and four major foundation units. Some of these foundation sciences, such as mathematics and chemistry, will underpin all of your later studies. All of the first-year studies are designed to challenge and engage you in the wonders of science, regardless of your prior exposure to science studies. You should seek advice from our expert staff of your choice of major to suit your interests and capabilities, and your personal and career aspirations.

- Major (eight units)
  Choose your main specialisation study area (your major) from the list below. This will form the basis for your qualification, for example Bachelor of Applied Science (Biotechnology). As QUT courses are designed in close consultation with industry you will be eligible for the relevant professional accreditation when you graduate. The major areas available are:
# Bachelor of Applied Science (Biochemistry)

<table>
<thead>
<tr>
<th><strong>Handbook</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year</strong></td>
</tr>
<tr>
<td><strong>QUT code</strong></td>
</tr>
<tr>
<td><strong>CRICOS</strong></td>
</tr>
<tr>
<td><strong>Duration (full-time)</strong></td>
</tr>
<tr>
<td><strong>Duration (part-time domestic)</strong></td>
</tr>
<tr>
<td><strong>OP</strong></td>
</tr>
<tr>
<td><strong>Rank</strong></td>
</tr>
<tr>
<td><strong>OP Guarantee</strong></td>
</tr>
<tr>
<td><strong>Campus</strong></td>
</tr>
<tr>
<td><strong>Domestic fee (indicative)</strong></td>
</tr>
<tr>
<td><strong>International fee (indicative)</strong></td>
</tr>
<tr>
<td><strong>Total credit points</strong></td>
</tr>
<tr>
<td><strong>Credit points full-time sem.</strong></td>
</tr>
<tr>
<td><strong>Credit points part-time sem.</strong></td>
</tr>
<tr>
<td><strong>Start months</strong></td>
</tr>
<tr>
<td><strong>Int. Start Months</strong></td>
</tr>
<tr>
<td><strong>Deferment</strong></td>
</tr>
<tr>
<td><strong>Course Coordinator</strong></td>
</tr>
<tr>
<td><strong>Discipline Coordinator</strong></td>
</tr>
</tbody>
</table>

## Domestic Entry requirements

### Recommended Study
Chemistry and Biological Science

### Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)).

## International Entry requirements

### Recommended Study
Chemistry and Biological Science

### International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)).

### Minimum English requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

## Course update
As of 2013, this course will only be available for continuing Bachelor of Applied Science students and those students who are commencing in 2013 with advanced standing of 96 credit points of 1st year units.

New students - please refer to [ST01 Bachelor of Science](#). Please contact sef.enquiry@qut.edu.au for any enquiries.

## Career Outcomes
Strong employment opportunities for biochemists exist around the world in both the private and government sectors of industry. QUT graduates skilled in biochemistry can find career opportunities in diagnostic and analytical laboratories, universities, hospitals and health departments, pharmaceutical companies, primary and agricultural industries and departments, food industry laboratories, environmental agencies, and veterinary pathology laboratories. Alternative career paths in the marketing and sales of biotechnology equipment or commercialisation and management of biological products and processes are available.

For those wishing to enter research in honours and PhD programs, biochemistry offers a huge scope of intriguing and intellectually rewarding projects.

## Professional Recognition
Graduates are eligible for membership of the Australian Society for Biochemistry and Molecular Biology (ASBMB), and in some cases the Australasian Association of Clinical Biochemists (AACB).

## Domestic Course structure

### Year 1
You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. Following these introductory studies you should be in a position to confirm your choice of a major area of study.

### Year 2
You will build on the concepts introduced in first year and you will consider molecular interactions in cell metabolism and function and the flow of energy and information within the cell.

### Year 3
You will encounter current experimental theory and practice in biochemistry, including the exciting new developments in molecular modelling, metabolism and proteomics. You will be provided with knowledge and analytical skills that will serve you well in the workforce or lead to further study.

## International Course structure

### Year 1
You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. Following these introductory studies you should be in a position to confirm your choice of a major area of study.

### Year 2
You will build on the concepts introduced in first year and you will consider molecular interactions in cell metabolism and function and the flow of energy and information within the cell.

### Year 3
You will encounter current experimental theory and practice in biochemistry, including the exciting new developments in molecular modelling, metabolism and proteomics. You will be provided with knowledge and analytical skills that will serve you well in the workforce or lead to further study.
Bachelor of Applied Science (Biochemistry)

Mathematics and environmental science to give you a solid foundation for your future studies. Following these introductory studies you should be in a position to confirm your choice of a major area of study.

**Year 2**
You will build on the concepts introduced in first year and you will consider molecular interactions in cell metabolism and function and the flow of energy and information within the cell.

**Year 3**
You will encounter current experimental theory and practice in biochemistry, including the exciting new developments in molecular modelling, metabolism and proteomics. You will be provided with knowledge and analytical skills that will serve you well in the workforce or lead to further study.

### Sample Structure

#### Semesters

<table>
<thead>
<tr>
<th>Year 1, Semester 1</th>
<th>Year 1, Semester 2 (Life Sciences Pre-Major Strand)</th>
<th>Year 2, Semester 1</th>
<th>Year 2, Semester 2</th>
<th>Year 3, Semester 1</th>
<th>Year 3, Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCB110</td>
<td>Science Concepts and Global Systems</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCB111</td>
<td>Chemistry 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCB112</td>
<td>Cellular Basis of Life</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select ONE unit from:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAB101</td>
<td>Statistical Data Analysis 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAB105</td>
<td>Preparatory Mathematics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAB120</td>
<td>Algebra and Calculus</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Students without a Sound Achievement (4 semesters) in Maths A should enrol in MAB105.
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB101.
3. Students with a Sound Achievement in Maths C and wishing to major in Physics should enrol in MAB121.
4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MAB120.

5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.

<table>
<thead>
<tr>
<th>Year 1, Semester 2 (Life Sciences Pre-Major Strand)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCB120</td>
</tr>
<tr>
<td>[Note: students taking forensic science or chemistry second majors should replace SCB120 Plant and Animal Physiology with SCB131 Experimental Chemistry].</td>
</tr>
<tr>
<td>SCB121</td>
</tr>
<tr>
<td>SCB122</td>
</tr>
<tr>
<td>SCB123</td>
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<table>
<thead>
<tr>
<th>Year 2, Semester 1</th>
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<tbody>
<tr>
<td>LQB381</td>
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<tr>
<td>LQB383</td>
</tr>
<tr>
<td>Plus TWO other units selected according to the second major requirements</td>
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<table>
<thead>
<tr>
<th>Year 2, Semester 2</th>
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</tr>
</thead>
<tbody>
<tr>
<td>LQB481</td>
<td>Biochemical Pathways and Metabolism</td>
</tr>
<tr>
<td>LQB483</td>
<td>Molecular Biology Techniques</td>
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<tr>
<td>Plus TWO other units selected according to the second major requirements</td>
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<table>
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<tr>
<th>Year 3, Semester 1</th>
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<tbody>
<tr>
<td>LQB581</td>
<td>Functional Biochemistry</td>
</tr>
<tr>
<td>LQB582</td>
<td>Biomedical Research Technologies</td>
</tr>
<tr>
<td>Plus TWO other units selected according to the second major requirements</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3, Semester 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LQB681</td>
<td>Biochemical Research Skills</td>
</tr>
<tr>
<td>LQB682</td>
<td>Protein Biochemistry and Bioengineering</td>
</tr>
<tr>
<td>Plus TWO other units selected according to the second major requirements</td>
<td></td>
</tr>
</tbody>
</table>

### Recommended Second Majors:

- Biotechnology, Chemistry, Forensic Science, Life Science Technologies, Microbiology

* Elective Unit for all Majors except Forensic Science:

- SCB500 | Industry Project |

SCB500 Industry Project is a unit that will be offered as an elective in all majors. This unit requires 84 credit points of Level 2 and/or 3 Science units, so it may only be taken at the completion of Year 2 in Summer or during Year 3.
Bachelor of Applied Science (Biotechnology)

Handbook

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
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<tbody>
<tr>
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<td>Duration (part-time domestic)</td>
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<td>OP</td>
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<td>Rank</td>
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<tr>
<td>Campus</td>
<td>Gardens Point</td>
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<tr>
<td>Domestic fee (indicative)</td>
<td>2012: CSP $2,260 per Semester</td>
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<tr>
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<tr>
<td>Credit points part-time sem.</td>
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</tr>
<tr>
<td>Start months</td>
<td>February, July</td>
</tr>
<tr>
<td>Int. Start Months</td>
<td>Conditions apply for July entry</td>
</tr>
<tr>
<td>Deferment</td>
<td>You can defer your offer and postpone the start of your course for one year</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Dr Marion Bateson</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Dr Marion Bateson (+61 7 3138 1269 (Alternate phone: +61 7 3138 8822) <a href="mailto:m.bateson@qut.edu.au">m.bateson@qut.edu.au</a> (Alternate email: <a href="mailto:sef.enquiry@qut.edu.au">sef.enquiry@qut.edu.au</a>))</td>
</tr>
</tbody>
</table>

Domestic Entry requirements

**Recommended Study**

Biological Science and Chemistry.

**Domestic Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas

- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)).

**International Entry requirements**

**Recommended Study**

Biological Science and Chemistry.

**International Subject prerequisites**

- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)).

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Course update

As of 2013, this course will only be available for continuing Bachelor of Applied Science students and those students who are commencing in 2013 with advanced standing of 96 credit points of 1st year units.

New students - please refer to [ST01 Bachelor of Science](#). Please contact sef.enquiry@qut.edu.au for any enquiries.

**Career Outcomes**

As a QUT biotechnology graduate you will have a wide range of exciting career opportunities available to you across a number of existing and emerging global industries. New career opportunities include nanotechnology, proteomics, materials science, molecular farming and bioinformatics. Our biotechnology graduates find career opportunities in medical and agricultural research, product development or marketing, hospitals and diagnostic laboratories, in teaching and in many areas of government and private industry.

**Professional Recognition**

Graduates are eligible for membership of AusBiotech Ltd, Australian Society for Biochemistry and Molecular Biology (ASBMB) and, depending on unit selection, Australian Society for Medical Research (ASMR) and the Australian Society for Microbiology (ASM).

**Domestic Course structure**

**Year 1**

You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. You will also be introduced to the structure and function of DNA, RNA and proteins, and their role in cell function. Following these introductory studies you should be in a position to confirm your choice of a major area of study.

**Year 2**

You will develop a more detailed understanding of biochemical principles, cell biology and the structure and function of biomolecules. A strong focus is placed on developing practical skills in molecular biology and cell culture that will underpin your future studies. You will have access to real-world molecular biology laboratories with modern equipment and highly skilled tutors. You will also be introduced to bioinformatics through hands-on computer-based exercises.

**Year 3**

You will further develop both theoretical and practical skills in DNA manipulation and genetic engineering as well as advanced bioinformatics. You will also focus on specific applications in biotechnology including current advances in diagnostics and detection, cell culture and tissue engineering in both animal and plant systems, functional genomics, proteomics and microarray technology. Teaching approaches at this level will encourage critical thinking, and problem-solving.
Based learning, and you will undertake a mix of independent activities and group work.

**International Course structure**

**Year 1**
You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. You will also be introduced to the structure and function of DNA, RNA and proteins, and their role in cell function. Following these introductory studies you should be in a position to confirm your choice of a major area of study.

**Year 2**
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**Sample Structure**

**Semesters**

- **Year 1, Semester 1**
  - SCB110 Science Concepts and Global Systems
  - SCB111 Chemistry 1
  - SCB112 Cellular Basis of Life
  - Select ONE unit from:
    - MAB101 Statistical Data Analysis 1
    - MAB105 Preparatory Mathematics
    - MAB120 Algebra and Calculus
  - MAB121 Calculus and Differential Equations
  - 1. Students without a Sound Achievement (4 semesters) in Maths A should enrol in MAB105.
  - 2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB120.
  - 3. Students with a Sound Achievement in Maths C and wishing to major in Physics should enrol in MAB121.
  - 4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MAB101.
  - 5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.

- **Year 1, Semester 2 (Life Sciences Pre-Major Strand)**
  - SCB120 Plant and Animal Physiology
  - SCB121 Chemistry 2
  - SCB122 Cell and Molecular Biology
  - SCB123 Physical Science Applications

- **Year 2, Semester 1**
  - LQB381 Biochemistry: Structure and Function
  - LQB383 Molecular and Cellular Regulation
  - Plus TWO other units selected according to the second major requirements

- **Year 2, Semester 2**
  - LQB483 Molecular Biology Techniques
  - LQB484 Introduction to Genomics and Bioinformatics
  - Plus TWO other units selected according to the second major requirements

- **Year 3, Semester 1**
  - Select TWO units from:
    - LQB583 Genetic Research Technology
    - LQB584 Medical Cell Biology

- **Recommended Second Majors:**
  - Biochemistry, Chemistry, Forensic Science, Life Science Technologies, Microbiology
  - * Elective Unit for all Majors except Forensic Science:
    - SCB500 Industry Project

SCB500 Industry Project is a unit that will be offered as an elective in all majors. This unit requires 84 credit points of Level 2 and/or 3 Science units, so it may only be taken at the completion of Year 2 in Summer or during Year 3.
Bachelor of Applied Science (Chemistry)

### Domestic Entry requirements

**Recommended Study**

At least one of the sciences.

**Domestic Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas:

- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)).

### International Entry requirements

**Recommended Study**

At least one of the sciences.

**International Subject prerequisites**

- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)).

**Minimum English requirements**

Students must meet the English proficiency requirements.

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### Course update

As of 2013, this course will only be available for continuing Bachelor of Applied Science students and those students who are commencing in 2013 with advanced standing of 96 credit points of 1st year units.

New students - please refer to [ST01 Bachelor of Science](#).

Please contact sef.enquiry@qut.edu.au for any enquiries.

### Career Outcomes

Among a diverse range of employment opportunities, you may become an industrial chemist, materials scientist, environmental chemist, quality control analyst, laboratory supervisor, laboratory specialist, food chemist, or an organic/inorganic chemist. Your interactions with QUT experts in current fields of interest including drug development, clay and minerals chemistry, renewable energy sources, nanotechnology, environmental monitoring, and applications of modern analytical instrumentation may lead to careers in these areas.

QUT graduates are sought after by police and other forensics laboratories because of their extensive practical training using modern analytical instrumentation.

With the addition of a postgraduate diploma in education, you may wish to pursue opportunities in the teaching profession.

### Professional Recognition

Graduates completing the chemistry major with the chemistry for industry second major or forensic science major are eligible for membership of the Royal Australian Chemical Institute (RACI).

### Domestic Course structure

**Year 1**

You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. If you are taking the chemistry for industry second major you will be provided with opportunities to develop further laboratory skills. If you are taking chemistry with forensic science, you will also cover introductory life science topics that prepare you for important tasks like DNA profiling.

**Minimum English requirements**

Students must meet the English proficiency requirements.

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<td>6.0</td>
<td>6.5</td>
</tr>
</tbody>
</table>

### Year 2

You will begin more specialised study of the core chemistry sub-disciplines of analytical inorganic, organic and physical chemistry. In the chemistry for industry second major you will begin extensive studies in analytical chemistry, chemical and nanotechnologies. Problem solving and the development of critical thinking will be emphasised. You should expect plenty of practical work and hands-on experience. The communication skills, generic scientific skills, and report preparation tools you will learn at QUT will be vital to your future employment.

### Year 3

You will tackle more challenging
advanced concepts in the core sub-disciplines of chemical science. In this second major, you will have the advantage of field trips to major industrial sites. All third year chemistry studies will undertake a one-semester research project under the guidance of experienced staff. Students will be trained in start-of-the-art techniques and will have the opportunity to pursue a field of interest to them. Whether you are seeking your first job or contemplating higher research degree studies, you will have access to advice from qualified professionals.

International Course Structure

Year 1
You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. If you are taking the chemistry for industry second major you will be provided with opportunities to develop further laboratory skills. If you are taking chemistry with forensic science, you will also cover introductory life science topics that prepare you for important tasks like DNA profiling.

Year 2
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Sample Structure

Semesters

<table>
<thead>
<tr>
<th>Year 1, Semester 1</th>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCB110</td>
<td>Science Concepts and Global Systems</td>
<td></td>
</tr>
<tr>
<td>SCB111</td>
<td>Chemistry</td>
<td></td>
</tr>
<tr>
<td>SCB112</td>
<td>Cellular Basis of Life</td>
<td></td>
</tr>
<tr>
<td>Plus ONE of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAB101</td>
<td>Statistical Data Analysis 1</td>
<td></td>
</tr>
<tr>
<td>MAB105</td>
<td>Preparatory Mathematics</td>
<td></td>
</tr>
<tr>
<td>MAB120</td>
<td>Algebra and Calculus</td>
<td></td>
</tr>
<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
<td></td>
</tr>
</tbody>
</table>

1. Students without a Sound Achievement (4 semesters) in Maths A should enrol in MAB105.
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB101.
3. Students with a Sound Achievement in Maths C and wishing to major in Physics should enrol in MAB121.
4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MAB120.
5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.

Year 1, Semester 2 (Chemistry Pre-Major Strand)

<table>
<thead>
<tr>
<th>SCB121</th>
<th>Chemistry 2</th>
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<tbody>
<tr>
<td>SCB123</td>
<td>Physical Science Applications</td>
</tr>
<tr>
<td>SCB131</td>
<td>Experimental Chemistry</td>
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<tr>
<td>Plus either:</td>
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<tr>
<td>MAB120</td>
<td>Algebra and Calculus</td>
</tr>
<tr>
<td>Or</td>
<td>SCB122</td>
</tr>
</tbody>
</table>

Note: MAB120 is the preferred option for the Chemistry major. Only students taking Forensic Science, Microbiology, Biochemistry or Biotechnology as a second major should select SCB122 Cell and Molecular Biology.

Year 2, Semester 1

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>PQB312</td>
<td>Analytical Chemistry For Scientists and Technologists</td>
</tr>
<tr>
<td>PQB331</td>
<td>Structure and Bonding</td>
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</table>

Plus TWO other units selected according to the second major requirements.

Year 2, Semester 2 *

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>PQB401</td>
<td>Reaction Kinetics, Thermodynamics and Mechanisms</td>
</tr>
<tr>
<td>PQB442</td>
<td>Chemical Spectroscopy</td>
</tr>
</tbody>
</table>

Plus TWO other units selected according to the second major requirements.

Year 3, Semester 1 *

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<tr>
<td>PQB502</td>
<td>Advanced Physical Chemistry</td>
</tr>
<tr>
<td>PQB531</td>
<td>Organic Mechanisms and Synthesis</td>
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</table>

Plus TWO other units selected according to the second major requirements.

Year 3, Semester 2 *

<table>
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<tr>
<td>PQB631</td>
<td>Advanced Inorganic Chemistry</td>
</tr>
<tr>
<td>PQB642</td>
<td>Chemical Research</td>
</tr>
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</table>

Plus TWO other units selected according to the second major requirements.

Recommended Second Majors:
Biochemistry, Biotechnology, Chemistry for Industry, Forensic Science

* Elective Unit for all Majors except Forensic Science

SCB500 Industry Project

SCB500 Industry Project is a unit that will be offered as an elective in all majors. This unit requires 84 credit points of Level 2 and/or 3 Science units, so it may only be taken at the completion of Year 2 in Summer or during Year 3.
Bachelor of Applied Science (Ecology)

<table>
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<tr>
<td>CRICOS</td>
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<tr>
<td>Duration (full-time)</td>
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<tr>
<td>Duration (part-time domestic)</td>
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<td>OP</td>
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<tr>
<td>Rank</td>
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<td>OP Guarantee</td>
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<td>Domestic fee (indicative)</td>
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<tr>
<td>International fee (indicative)</td>
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<td>Total credit points</td>
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<td>Credit points full-time sem.</td>
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<tr>
<td>Credit points part-time sem.</td>
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<td>Start months</td>
<td>February, July</td>
</tr>
<tr>
<td>Int. Start Months</td>
<td>February, July</td>
</tr>
<tr>
<td>Deferment</td>
<td>You can defer your offer and postpone the start of your course for one year</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Dr Marion Bateson</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Dr Ian Williamson</td>
</tr>
<tr>
<td>(Alternate phone: +61 7 3138 2779)</td>
<td></td>
</tr>
<tr>
<td>(Alternate email: <a href="mailto:i.williamson@qut.edu.au">i.williamson@qut.edu.au</a>)</td>
<td></td>
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</tbody>
</table>

Domestic Entry requirements

Recommended Study
At least one of the sciences.

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)).

International Entry requirements

Recommended Study
At least one of the sciences.

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)).

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

| Speaking | 6.0 |
| Writing | 6.0 |
| Reading | 6.0 |
| Listening | 6.0 |
| Overall | 6.5 |

Course update

As of 2013, this course will only be available for continuing Bachelor of Applied Science students and those students who are commencing in 2013 with advanced standing of 96 credit points of 1st year units.

New students - please refer to ST01 Bachelor of Science. Please contact sef.enquiry@qut.edu.au for any enquiries.

Career Outcomes

Ecologists find rewarding careers in research and monitoring with government departments responsible for sustainability, wildlife conservation and national parks, primary industries, pest management, fisheries, forestry and museums. They also find work in private firms engaged in research and consultancy. Positions include conservation officer, sustainable resources officer, wildlife manager, fisheries biologist, scientific or technical officer, teacher or research scientist. Employment in more specialised areas is available, usually requiring study beyond the first degree.

Professional Recognition

Professional recognition is achieved through membership of a scientific society, for example, the Ecological Society of Australia (ESA) or the Australian Wildlife Management Society (AWMS) and participation in its meetings and professional activities.

Domestic Course structure

Year 1
You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. You will also gain key basic knowledge about the natural systems that exist on plant earth and the way these systems interact.

Year 2
You will focus on background concepts important for understanding ecology and the environment. You will examine in detail the fundamental concepts in ecology and evolution, and the basic processes important in the formation of the physical environment that are fundamental to understanding natural resource systems. You will learn about the dynamics of plant and animal populations and the interactions that influence them, and the basic methods used to describe and monitor populations. A background in fundamental genetics and evolution will provide the framework for understanding and interpreting variation in biological systems. You will expand on basic concepts of data handling and analysis so that you have a sound knowledge of experimental design and its application to experimental studies in ecology and environmental science. You will also learn how to design and conduct ecological field studies and analyse and communicate information.

Year 3
The fundamental knowledge of ecology,
evolution and experimental design is extended to develop the theoretical and applied knowledge used by practising ecologists. You will cover in detail the three main areas where ecology is applied – approaches to the conservation of rare and endangered species and ecosystems, the management of invasives and other pest species, and the sustainable exploitation of wild populations. These aspects are also covered in guest lectures by industry professionals, and by involving you in detailed case studies and field projects that examine particular management questions in ecology.

International Course structure

Year 1
You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. You will also gain key basic knowledge about the natural systems that exist on planet earth and the way these systems interact.

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You will focus on background concepts important for understanding ecology and the environment. You will examine in detail the fundamental concepts in ecology and evolution, and the basic processes important in the formation of the physical environment that are fundamental to understanding natural resource systems. You will learn about the dynamics of plant and animal populations and the interactions that influence them, and the basic methods used to describe and monitor populations. A background in fundamental genetics and evolution will provide the framework for understanding and interpreting variation in biological systems. You will expand on basic concepts of data handling and analysis so that you have a sound knowledge of experimental design and its application to experimental studies in ecology and environmental science. You will also learn how to design and conduct ecological field studies and analyse and communicate information.

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Sample Structure

Semesters

- **Year 1, Semester 1**
- **Year 1, Semester 2** (Ecology and Environmental Science Pre-Major Strand)
- **Year 2, Semester 1**
- **Year 2, Semester 2**
- **Year 3, Semester 1**
- **Recommended Second Majors:**
  - * Elective Unit for all Majors except Forensic Science:

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**Year 1, Semester 2** (Ecology and Environmental Science Pre-Major Strand)

- NQB201 | Planet Earth |
- NQB202 | History of Life on Earth |
- SCB120 | Plant and Animal Physiology |
- Plus either
  - SCB121 | Chemistry 2 |

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This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=SC01&courseID=18871. CRICOS No.00213J
Domestic Entry requirements

Recommended Study
At least one of the sciences

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
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International Entry requirements

Recommended Study
At least one of the sciences

International Subject prerequisites
- Maths B
- English

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Minimum English requirements
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<th>Writing</th>
<th>Reading</th>
<th>Listening</th>
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New students - please refer to ST01 Bachelor of Science. Please contact sef.enquiry@qut.edu.au for any enquiries.

Career Outcomes
Environmental scientists are continually needed in a wide variety of planning, management, monitoring and research careers. These roles are usually found in government departments and agencies, in local councils, in consultancy, and in industrial and mining companies. As an environmental science graduate you could be working in urban, rural or remote settings depending on your interests.

Graduates are equipped to assess resources, implement environmental impact programs, analyse and interpret environmental data and formulate contingency plans in a wide variety of areas. These include strategic land-use planning, waste disposal, pollution measurement and control, coastal protection, environmental impact of mining, tourism and urban development, rehabilitation and reforestation of degraded sites, ground water assessment and modelling, flood plain planning, erosion control, and marine science.

Professional Recognition
Graduates are eligible for membership of the Environment Institute of Australia and New Zealand (EIANZ) and a variety of other scientific societies, including the Soil Science Society of Australia (SSSA) and the Ecological Society of Australia (ESA).

Domestic Course Structure

Year 1
You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. You will be provided with a good introduction to environmental science issues and scientific problem solving as well as a basic knowledge about the natural systems that exist on plant earth and the way these systems interact. Following these introductory studies you should be in a position to confirm your choice of major area of study.

Year 2
You will learn fundamental concepts and gain practical experience in understanding and investigating earth surface systems and processes both in the laboratory and in the field. At the same time, you will be introduced to the design of field and laboratory experiments and you will have the option to pursue a more ecologically or geologically oriented direction. You will then be introduced to elements of environmental chemistry in air, water and soil, including a number of field trips.
### Bachelor of Applied Science (Environmental Science)

**Year 3**
You will receive more advanced training in the essential areas of environmental systems and how we can model them, and you will survey and map natural resources during field trips. You will be introduced to the use of spatial science to assess and map environmental systems using geographic information systems and remote sensing. Case studies and problem-solving methods are used to introduce you to a wide variety of issues in sustainable management.

### Sample Structure

#### Semesters

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>SCB110</td>
<td>Science Concepts and Global Systems</td>
</tr>
<tr>
<td>SCB111</td>
<td>Chemistry 1</td>
</tr>
<tr>
<td>SCB112</td>
<td>Cellular Basis of Life</td>
</tr>
<tr>
<td></td>
<td>Plus ONE of:</td>
</tr>
<tr>
<td>MAB101</td>
<td>Statistical Data Analysis 1</td>
</tr>
<tr>
<td>MAB105</td>
<td>Preparatory Mathematics</td>
</tr>
<tr>
<td>MAB120</td>
<td>Algebra and Calculus</td>
</tr>
<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
</tr>
<tr>
<td></td>
<td>1. Students with a Sound Achievement (4 semesters) in Maths A should enrol in MAB105.</td>
</tr>
<tr>
<td></td>
<td>2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB101.</td>
</tr>
<tr>
<td></td>
<td>3. Students with a Sound Achievement in Maths C and wishing to major in Physics should enrol in MAB121.</td>
</tr>
<tr>
<td></td>
<td>4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MAB120.</td>
</tr>
<tr>
<td></td>
<td>5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.</td>
</tr>
</tbody>
</table>

#### Year 1, Semester 1

- **NQB302** Earth Surface Systems
- **NQB321** Ecology
- Plus TWO other units selected according to the second major requirements

#### Year 2, Semester 2 *

- **NQB403** Soils and the Environment
- **NQB421** Experimental Design
- Plus TWO other units selected according to the second major requirements

#### Year 3, Semester 1 *

- **NQB501** Environmental Modelling
  - Plus either
  - **NQB502** Field Methods in Natural Resources
  - Or
  - **NQB503** Spatial Analysis of Environmental Systems
- Plus TWO other units selected according to the second major requirements

### International Course Structure

**Year 1**
You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. You will be provided with a good introduction to environmental science issues and scientific problem solving as well as a basic knowledge about the natural systems that exist on plant earth and the way these systems interact. Following these introductory studies you should be in a position to confirm your choice of major area of study.

**Year 2**
You will learn fundamental concepts and gain practical experience in understanding and investigating earth surface systems and processes both in the laboratory and in the field. At the same time, you will be introduced to the design of field and laboratory experiments and you will have the option to pursue a more ecologically or geologically oriented direction. You will then be introduced to elements of environmental chemistry in air, water and soil, including a number of field trips.

**Year 3**
You will receive more advanced training in the essential areas of environmental systems and how we can model them, and you will survey and map natural resources during field trips. You will be introduced to the use of spatial science to assess and map environmental systems using geographic information systems and remote sensing. Case studies and problem-solving methods are used to introduce you to a wide variety of issues in sustainable management.

---

* This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=SC01&courseID=18870. CRICOS No.00213](http://www.student.qut.edu.au/studying/courses/course?courseCode=SC01&courseID=18870. CRICOS No.00213).
Bachelor of Applied Science (Forensic Science)

Handbook

Year | 2012
QUT code | SC01
CRICOS | 003502J
Duration (full-time) | 3 years
Duration (part-time domestic) | 6 years
OP | 13
Rank | 73
OP Guarantee | Yes
Campus | Gardens Point
Domestic fee (indicative) | 2012: CSP $2,260 per Semester
International fee (indicative) | 2012: $12,500 per semester
Total credit points | 288
Credit points full-time sem. | 48
Credit points part-time sem. | 24
Start months | February, July
Int. Start Months | February, July
Deferment | You can defer your offer and postpone the start of your course for one year
Course Coordinator | Dr Marion Bateson
Discipline Coordinator | Dr Emad Kiriakous +61 7 3138 8822
sef.enquiry@qut.edu.au

Domestic Entry requirements

Recommended Study
Biological Science and Chemistry

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)).

International Entry requirements

Recommended Study
Biological Science and Chemistry

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)).

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<table>
<thead>
<tr>
<th>Test</th>
<th>Score</th>
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</thead>
<tbody>
<tr>
<td>speaking</td>
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<tr>
<td>writing</td>
<td>6.0</td>
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<td>reading</td>
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<tr>
<td>listening</td>
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</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Course update
As of 2013, this course will only be available for continuing Bachelor of Applied Science students and those students who are commencing in 2013 with advanced standing of 96 credit points of 1st year units.

New students - please refer to ST01 Bachelor of Science. Please contact sef.enquiry@qut.edu.au for any enquiries.

Career Outcomes
Forensic science work is popular, rewarding and highly competitive.

Generally it involves employment in laboratories handling criminal casework in areas including forensic biology, chemistry, and toxicology. Crime scene investigation is another interesting profession which may be attained by joining the police force.

Professional Recognition
Graduates who complete the forensic science major in conjunction with a life science major in biochemistry, biotechnology or microbiology are eligible for membership of the Australian and New Zealand Forensic Society (ANZFSS), AusBiotech Ltd, and the Australian Society for Biochemistry and Molecular Biology (ASBMB).

Graduates who complete the forensic science major in conjunction with the chemistry major are eligible for membership of the Australian and New Zealand Forensic Science Society (ANZFSS) and the Royal Australian Chemical Institute (RACI).

Domestic Course structure

Year 1
You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. Following these introductory studies you should be in a position to confirm your choice of major area of study.

Year 2
Your forensic studies program begins with an introduction to crime scenes and your lectures will be accompanied by laboratory work including mock crime scenes. You will learn about the legal aspects of forensic science, and take a big picture approach to the nature and analysis of physical and biological evidence. You can expand your knowledge through dedicated units in forensic evidence, analytical chemistry and biological methods of analysis.

Year 3
You will build upon your previous studies to further develop your knowledge and skills in areas of crime scene investigation such as forensic photography and fingerprinting as well as interpretation of physical evidence. You will learn about the sophisticated instrumentation and interpretation of results used in the analysis of drugs, poisons and DNA. Hand-on laboratory sessions will provide
Bachelor of Applied Science (Forensic Science)

knowledge of expanded applications in advanced forensic analysis and toxicology. All theory is complemented and supplemented by focused workshops and laboratory classes.

International Course Structure

Year 1
You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. Following these introductory studies you should be in a position to confirm your choice of major area of study.

Year 2
Your forensic studies program begins with an introduction to crime scenes and your lectures will be accompanied by laboratory work including mock crime scenes. You will learn about the legal aspects of forensic science, and take a big picture approach to the nature and analysis of physical and biological evidence. You can expand your knowledge through dedicated units in forensic evidence, analytical chemistry and biological methods of analysis.

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Sample Structure

Semesters

- **Note: Must be taken as a double major with Biochemistry, Biotechnology, Chemistry or Microbiology**
- **Year 1, Semester 1**
  - SCB110 Science Concepts and Global Systems
  - SCB111 Chemistry 1
  - SCB112 Cellular Basis of Life
  - Plus ONE of:
    - MAB101 Statistical Data Analysis 1
    - MAB105 Preparatory Mathematics
    - MAB120 Algebra and Calculus
    - MAB121 Calculus and Differential Equations
  - 1. Students with a Sound Achievement (4 semesters) in Maths A should enrol in MAB105.
  - 2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB101.
  - 3. Students with a Sound Achievement in Maths C and wishing to major in Physics should enrol in MAB121.
  - 4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MAB120.
  - 5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.
- **Year 1, Semester 2 (Forensic Science Pre-Major Strand)**
  - SCB121 Chemistry 2
  - SCB122 Cell and Molecular Biology
  - SCB123 Physical Science Applications
  - SCB131 Experimental Chemistry
- **Year 2, Semester 1**
  - LQB383 Molecular and Cellular Regulation
  - SCB384 Forensic Sciences - From Crime Scene to Court
  - Plus TWO other units selected according to the second major requirements
- **Year 2, Semester 2**
  - JSB979 Forensic Scientific Evidence
  - PQB312 Analytical Chemistry For Scientists and Technologists
  - Plus TWO other units selected according to the second major requirements
- **Year 3, Semester 1**
  - PQB513 Instrumental Analysis
  - PQB584 Forensic Physical Evidence
  - Plus TWO other units selected according to the second major requirements
- **Year 3, Semester 2**
  - LQB680 Forensic DNA Profiling
  - PQB684 Forensic Analysis
  - Plus TWO other units selected according to the second major requirements

Certain units in this major may also be listed for your second major. You must take a suitable replacement unit as each unit may only be counted towards one major. Please contact your discipline coordinator to obtain a list of suitable "extra" units.

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=SC01&courseId=18850. CRICOS No.00213J
Domestic Entry requirements

Recommended Study
At least one of the sciences.

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)).

International Entry requirements

Recommended Study
At least one of the sciences.

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)).

Minimum English requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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<tbody>
<tr>
<td>speaking 6.0</td>
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<td>listening 6.0</td>
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<td>overall 6.5</td>
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</tbody>
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Course update

As of 2013, this course will only be available for continuing Bachelor of Applied Science students and those students who are commencing in 2013 with advanced standing of 96 credit points of 1st year units.

New students - please refer to ST01 Bachelor of Science. Please contact sef.enquiry@qut.edu.au for any enquirers.

Career Outcomes
Employment opportunities exist within a variety of government organisations and consulting companies with work ranging from field geologists to research scientists. Exploration geologists are employed by mining and hydrocarbon exploration companies where they may be involved in underground geological mapping, evaluation of ore reserves, production control, or exploration for new mineral or oil and gas deposits. They may be based in remote settings or major cities. Graduates may work in computing, data modelling and remote sensing in any of these areas.

An honours degree has traditionally been required by many employers including the larger mining and exploration companies.

Professional Recognition
Graduates are eligible for membership of the Australasian Institute of Mining and Metallurgy (AIMM), Australian Institute of Geoscientists (AIG), and the Geological Society of Australia (GSA).

Domestic Course structure

Year 1
You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. You will also select specific units that will help you decide whether to pursue career paths in exploration or environmental geoscience. Following these introductory studies you should be in a position to confirm your choice of major area of study.

Year 2
You will learn fundamental concepts and gain practical experience in identifying and analysing earth materials, both in the laboratory and in the field. At the same time, you will be introduced to the geological processes that govern the evolution of the earth’s surface (sedimentary environments). You will then be introduced to rocks and processes that occur deeper within the earth (igneous and metamorphic realms) and longer term geological processes including structural deformation and stratigraphic evolution. The year culminates with you being able to solve real-world geological problems based on data you collect in the field.

Year 3
You will receive more advanced training in the fundamental areas of petrology and geochemistry with the addition of exploration geophysics and specialised units relevant to the mining, coal,
Bachelor of Applied Science (Geoscience)

petroleum and/or hydrogeology-environmental industries. You will be introduced to techniques and case studies that will prepare you for a wide variety of career paths. At the same time, you will learn new skills in subsurface analysis and mapping, remote sensing, and spatial analysis, including computer-based geographical information systems.

International Course Structure

Year 1
You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. You will also select specific units that will help you decide whether to pursue career paths in exploration or environmental geoscience. Following these introductory studies you should be in a position to confirm your choice of major area of study.

Year 2
You will learn fundamental concepts and gain practical experience in identifying and analysing earth materials, both in the laboratory and in the field. At the same time, you will be introduced to the geological processes that govern the evolution of the earth’s surface (sedimentary environments). You will then be introduced to rocks and processes that occur deeper within the earth (igneous and metamorphic realms) and longer term geological processes including structural deformation and stratigraphic evolution. The year culminates with you being able to solve real-world geological problems based on data you collect in the field.

Year 3
You will receive more advanced training in the fundamental areas of petrology and geochemistry with the addition of exploration geophysics and specialised units relevant to the mining, coal, petroleum and/or hydrogeology-environmental industries. You will be introduced to techniques and case studies that will prepare you for a wide variety of career paths. At the same time, you will learn new skills in subsurface analysis and mapping, remote sensing, and spatial analysis, including computer-based geographical information systems.

Sample Structure

Semesters

- **Year 2, Semester 1**
- **Year 2, Semester 2**
- **Recommended Second Majors:**
  - * Elective Unit for all Majors except Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>SCB110</td>
<td>Science Concepts and Global Systems</td>
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<td>SCB111</td>
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<td>SCB112</td>
<td>Cellular Basis of Life</td>
</tr>
<tr>
<td>MAB101</td>
<td>Statistical Data Analysis 1</td>
</tr>
<tr>
<td>MAB105</td>
<td>Preparatory Mathematics</td>
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<tr>
<td>MAB120</td>
<td>Algebra and Calculus</td>
</tr>
<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
</tr>
</tbody>
</table>

1. Students with a Sound Achievement (4 semesters) in Maths A should enrol in MAB101.
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB105.
3. Students with a Sound Achievement in Maths C and wishing to major in Physics should enrol in MAB121.
4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MAB120.
5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.

- **Year 3, Semester 2**
- **Year 3, Semester 1**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>NQB201</td>
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<tr>
<td>NQB202</td>
<td>History of Life on Earth</td>
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<td>SCB123</td>
<td>Physical Science Applications</td>
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<td>SCB222</td>
<td>Exploration of the Universe</td>
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<td>NQB311</td>
<td>Mineralogy</td>
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<td>NQB314</td>
<td>Sedimentary Geology</td>
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<tr>
<td>NQB411</td>
<td>Petrology of Igneous and Metamorphic Rocks</td>
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<tr>
<td>NQB412</td>
<td>Structural Geology and Field Methods</td>
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<td>NQB502</td>
<td>Field Methods in Natural Resource Sciences</td>
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</table>

Recommended Second Majors:
- * Elective Unit for all Majors except Forensic Science:

<table>
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<tbody>
<tr>
<td>NQB513</td>
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<td>NQB615</td>
<td>Geochemistry Plus ONE of</td>
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<tr>
<td>NQB612</td>
<td>Basin Analysis and Petroleum Geology</td>
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<tr>
<td>NQB613</td>
<td>Plate Tectonics</td>
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<tr>
<td>NQB614</td>
<td>Groundwater Systems</td>
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<tr>
<td>NQB615</td>
<td>Geochemistry Plus ONE of</td>
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SCB500 Industry Project
SCB500 Industry Project is a unit that will be offered as an elective in all majors. This unit requires 84 credit points of Level 2 and/or 3 Science units, so it may only be taken at the completion of Year 2 in Summer or during Year 3.

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=SC01&courseID=18830. CRICOS No.00213J
Bachelor of Applied Science (Microbiology)

Handbook

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<td>Duration (part-time domestic)</td>
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<td>2012: CSP $2,260 per Semester</td>
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<td>International fee (indicative)</td>
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<td>Total credit points</td>
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<td>Credit points part-time sem.</td>
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<td>February, July</td>
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<tr>
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<td>Conditions apply for July entry</td>
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<tr>
<td>Course Coordinator</td>
<td>Dr Marion Bateson</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Dr Christine Knox</td>
</tr>
</tbody>
</table>

Domestic Entry requirements

**Recommended Study**

Biological Science and Chemistry.

**Domestic Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas:

- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)).

**International Entry requirements**

**Recommended Study**

Biological Science and Chemistry.

**International Subject prerequisites**

- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)).

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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<tbody>
<tr>
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</tbody>
</table>

**Course update**

As of 2013, this course will only be available for continuing Bachelor of Applied Science students and those students who are commencing in 2013 with advanced standing of 96 credit points of 1st year units.

New students - please refer to [ST01 Bachelor of Science](http://www.student.qut.edu.au/studying/courses/courselcourseCode=SC01&courseID=18810). CRICOS No.00213]

**Career Outcomes**

Microbiology graduates find employment in a variety of interesting careers. Many microbiologists are employed by human pathology laboratories with the departments of bacteriology, immunology, mycology, parasitology and virology. You may also find employment in laboratories testing for animal and plant diseases, or testing for pathogens or spoilage organisms in food, air, water and soils. Microbiologists can also be employed as metabolic engineers developing microbial production systems.

If working in a laboratory is not for you then there are positions available as technical product and sales representatives, intellectual property specialists/patent attorneys, or even with scientific publishers. Many microbiologists find employment within government departments such as Health, Employment, Economic Development and Innovation, and Environment and Resource Management.

If you wish to study for a higher research degree, you may pursue a research career in university, government or private research laboratories.

**Professional Recognition**

Graduates are eligible for membership of the Australian Society for Microbiology (ASM).

**Domestic Course structure**

**Year 1**

You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. Following these introductory studies you should be in a position to confirm your choice of major area of study.

**Year 2**

You will be introduced to diverse micro-organisms and study how they have evolved, their structure, how they obtain nutrients and how they grow and reproduce. Importantly you will also learn how to control microbial growth by sterilisation, disinfection and using antimicrobials. In practical classes you will learn how to stain and visualise micro-organisms using light microscopy and electron microscopy. You will isolate and culture micro-organisms and learn how to control microbial growth. You will practise identifying micro-organisms by their appearance, biochemical testing or by using molecular assays.

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/courselcourseCode=SC01&courseID=18810](http://www.student.qut.edu.au/studying/courses/courselcourseCode=SC01&courseID=18810). CRICOS No.00213]
Year 3
Advanced studies will allow you to expand your knowledge and expertise in specialised areas including pathogenesis and disease where you can study bacterial, fungal and parasitic diseases. Other advanced topics include animal and plant viral diseases, food microbiology, molecular microbiology, bioremediation and electron microscopy. You will also cover environmental microbiology which includes the testing of soil, air and water.

International Course structure

Year 1
You will undertake introductory core studies in a range of scientific areas including life sciences, chemistry, physics, mathematics and environmental science to give you a solid foundation for your future studies. Following these introductory studies you should be in a position to confirm your choice of major area of study.

Year 2
You will be introduced to diverse microorganisms and study how their environment has evolved, their structure, how they obtain nutrients and how they grow and reproduce. Importantly you will also learn how to control microbial growth by sterilisation, disinfection and using antimicrobials. In practical classes you will learn how to stain and visualise microorganisms using light microscopy and electron microscopy. You will isolate and culture microorganisms and learn how to control microbial growth. You will practise identifying microorganisms by their appearance, biochemical testing or by using molecular assays.

Year 3
Advanced studies will allow you to expand your knowledge and expertise in specialised areas including pathogenesis and disease where you can study bacterial, fungal and parasitic diseases. Other advanced topics include animal and plant viral diseases, food microbiology, molecular microbiology, bioremediation and electron microscopy. You will also cover environmental microbiology which includes the testing of soil, air and water.

Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1, Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCB110</td>
<td>Science Concepts and Global Systems</td>
<td></td>
</tr>
<tr>
<td>SCB111</td>
<td>Chemistry 1</td>
<td></td>
</tr>
<tr>
<td>SCB112</td>
<td>Cellular Basis of Life</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Plus ONE of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAB101</td>
</tr>
<tr>
<td>MAB105</td>
</tr>
<tr>
<td>MAB120</td>
</tr>
<tr>
<td>MAB121</td>
</tr>
</tbody>
</table>

1. Students without a Sound Achievement (4 semesters) in Maths A should enrol in MAB105.
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB101.
3. Students with a Sound Achievement in Maths C and wishing to major in Physics should enrol in MAB121.
4. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.
5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCB120</td>
<td>Plant and Animal Physiology</td>
</tr>
</tbody>
</table>

[Note: students taking forensic science or chemistry second majors should replace SCB120 Plant and Animal Physiology with SCB131 Experimental Chemistry].

<table>
<thead>
<tr>
<th>SCB121</th>
<th>Chemistry 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCB122</td>
<td>Cell and Molecular Biology</td>
</tr>
<tr>
<td>SCB123</td>
<td>Physical Science Applications</td>
</tr>
</tbody>
</table>

Year 2, Semester 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LQB381</td>
<td>Biochemistry: Structure and Function</td>
</tr>
<tr>
<td>LQB386</td>
<td>Microbial Structure and Function</td>
</tr>
</tbody>
</table>

Plus TWO other units selected according to the second major requirements

Year 2, Semester 2 *

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LQB483</td>
<td>Molecular Biology Techniques</td>
</tr>
<tr>
<td>LQB486</td>
<td>Clinical Microbiology 1</td>
</tr>
</tbody>
</table>

Plus TWO other units selected according to the second major requirements

Year 3, Semester 1 *

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LQB586</td>
<td>Clinical Microbiology 2</td>
</tr>
<tr>
<td>LQB587</td>
<td>Applied Microbiology 1: Water, Air and Soil</td>
</tr>
</tbody>
</table>

Plus TWO other units selected according to the second major requirements

Recommended Second Majors:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LQB666</td>
<td>Microbial Technology and Immunology</td>
</tr>
<tr>
<td>LQB687</td>
<td>Applied Microbiology 2: Food and Quality Assurance</td>
</tr>
</tbody>
</table>

Plus TWO other units selected according to the second major requirements

SCB500 Industry Project is a unit that will be offered as an elective in all majors. This unit requires 84 credit points of Level 2 and/or 3 Science units, so it may only be taken at the completion of Year 2 in Summer or during Year 3.
# Bachelor of Applied Science (Physics)

## Handbook

<table>
<thead>
<tr>
<th>Year</th>
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<tbody>
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<tr>
<td>OP Guarantee</td>
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<td>Campus</td>
<td>Gardens Point</td>
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<tr>
<td>International fee (indicative)</td>
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<td>Credit points full-time sem.</td>
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<td>Credit points part-time sem.</td>
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<tr>
<td>Int. Start Months</td>
<td>February, July</td>
</tr>
<tr>
<td>Deferment</td>
<td>You can defer your offer and postpone the start of your course for one year</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Dr Marion Bateson</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Dr Stephen Hughes</td>
</tr>
</tbody>
</table>

### Domestic Entry requirements

#### Recommended Study
Maths C

#### Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)).

### International Entry requirements

#### Recommended Study
Maths C

#### International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)).

### Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking 6.0</td>
</tr>
<tr>
<td>writing 6.0</td>
</tr>
<tr>
<td>reading 6.0</td>
</tr>
<tr>
<td>listening 6.0</td>
</tr>
<tr>
<td>overall 6.5</td>
</tr>
</tbody>
</table>

### Course update

As of 2013, this course will only be available for continuing Bachelor of Applied Science students and those students who are commencing in 2013 with advanced standing of 96 credit points of 1st year units.

New students - please refer to [ST01 Bachelor of Science](http://www.student.qut.edu.au/studying/courses/course?courseCode=SC01&courseID=18973). Contact sef.enquiry@qut.edu.au for any enquiries.

### Career Outcomes
Physicists are an asset to almost any industry. Employment areas of QUT physics graduates are very wide-ranging. These include research and development departments of large manufacturing companies, mining and exploration companies, research institutions such as the Commonwealth Scientific and Industrial Research Organisation (CSIRO) and the Defence Science and Technology Organisation (DSTO), government bodies such as the Bureau of Meteorology, Environmental Protection Agencies and health departments, schools, universities and hospitals. Broad training in data analysis and problem-solving skills also make physicists well suited to management and consulting roles in a range of technology-based industries.

### Professional Recognition
Graduates are eligible for membership of the Australian Institute of Physics (AIP).

### Domestic Course structure

#### Year 1
You will be introduced to a broad range of physics topics including mechanics, electricity, optics, waves, electromagnetism and atomic physics. Mathematics units will provide you with the skills and background knowledge required to support more advanced study in second and third years. You may choose to undertake a foundation unit in one of the other scientific disciplines to broaden your knowledge. You also have the flexibility to select two elective units to add another dimension to your science knowledge.

#### Year 2
You will begin to study specialist areas of physics at advanced level. Topics include electronics, instrumentation, radiation physics, thermodynamics and solid-state physics. Study of a secondary area of specialisation (second major) also begins. Second majors offered to physics students include astrophysics, mathematics, geoscience, games technology and music.

#### Year 3
You will proceed to further specialist areas including quantum physics, condensed matter physics, statistical mechanics and advanced electromagnetism. Your studies in experimental physics will help you develop data collection and data processing skills, and allow you to experience the methods used and to acquire the skills required to undertake research.
International Course structure

Year 1
You will be introduced to a broad range of physics topics including mechanics, electricity, optics, waves, electromagnetism and atomic physics. Mathematics units will provide you with the skills and background knowledge required to support more advanced study in second and third years. You may choose to undertake a foundation unit in one of the other scientific disciplines to broaden your knowledge. You also have the flexibility to select two elective units to add another dimension to your science knowledge.

Year 2
You will begin to study specialist areas of physics at advanced level. Topics include electronics, instrumentation, radiation physics, thermodynamics and solid-state physics. Study of a secondary area of specialisation (second major) also begins. Second majors offered to physics students include astrophysics, mathematics, geoscience, games technology and music.

Year 3
You will proceed to further specialist areas including quantum physics, condensed matter physics, statistical mechanics and advanced electromagnetism. Your studies in experimental physics will help you develop data collection and data processing skills, and allow you to experience the methods used and to acquire the skills required to undertake research.

Sample Structure

Semesters

- Year 1, Semester 1
- Year 1, Semester 2 (Physics Pre-Major Strand)
- Year 2, Semester 1
- Year 2, Semester 2 *
- Year 3, Semester 1 *
- Year 3, Semester 2 *
- Recommended Second Majors:
- * Elective Unit for all Majors except Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCB110</td>
<td>Science Concepts and Global Systems</td>
</tr>
<tr>
<td>SCB111</td>
<td>Chemistry 1</td>
</tr>
<tr>
<td>SCB112</td>
<td>Cellular Basis of Life</td>
</tr>
<tr>
<td>MAB101</td>
<td>Statistical Data Analysis 1</td>
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<tr>
<td>MAB105</td>
<td>Preparatory Mathematics</td>
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<td>MAB120</td>
<td>Algebra and Calculus</td>
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<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
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<tr>
<td>PQB250</td>
<td>Mechanics and Electromagnetism</td>
</tr>
<tr>
<td>PQB251</td>
<td>Waves and Optics</td>
</tr>
<tr>
<td>MAB122</td>
<td>Algebra and Analytic Geometry</td>
</tr>
<tr>
<td>MAB311</td>
<td>Advanced Calculus</td>
</tr>
<tr>
<td>PQB350</td>
<td>Thermodynamics of Solids and Gases</td>
</tr>
<tr>
<td>PQB450</td>
<td>Energy, Fields and Radiation</td>
</tr>
<tr>
<td>PQB451</td>
<td>Electronics and Instrumentation</td>
</tr>
<tr>
<td>PQB550</td>
<td>Quantum and Condensed Matter Physics</td>
</tr>
<tr>
<td>PQB551</td>
<td>Physical Analytical Techniques</td>
</tr>
<tr>
<td>PQB650</td>
<td>Advanced Theoretical Physics</td>
</tr>
<tr>
<td>PQB651</td>
<td>Experimental Physics</td>
</tr>
</tbody>
</table>

Recommended Second Majors:
- Astrophysics, Mathematics

SCB500 Industry Project
SCB500 Industry Project is a unit that will be offered as an elective in all majors. This unit requires 84 credit points of Level 2 and/or 3 Science units, so it may only be taken at the completion of Year 2 in Summer or during Year 3.
**Bachelor of Applied Science & Bachelor of Applied Science (Honours) Dean's Scholars Accelerated Honours Program**

<table>
<thead>
<tr>
<th>Handbook</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year</td>
</tr>
<tr>
<td>QUT code</td>
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<tr>
<td>CRICOS</td>
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<tr>
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<td>International fee (indicative)</td>
</tr>
<tr>
<td>Total credit points</td>
</tr>
<tr>
<td>Start months</td>
</tr>
<tr>
<td>Int. Start Months</td>
</tr>
<tr>
<td>Course Coordinator</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
</tr>
</tbody>
</table>

**Domestic Entry requirements**

*2012 applications and registrations have closed.*

Applications at QTAC and submission of the online questionnaire with QUT for 2012 was due on the 30 November 2011 and have now closed. Late applications and/or questionnaire submissions will not be accepted.

Applicants are required to complete an online questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

**Domestic Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas:

- Physics
- Maths C
- Maths B
- English
- Chemistry

English (4, SA) and Maths B (4, VHA) plus two (2) of Biological Science, Chemistry, Earth Science, Maths C or Physics (4, VHA). We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA) or very high achievement (4, VHA).

**International Entry requirements**

International students must complete year 12 at an Australian school.

Applicants are required to complete a questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

**International Subject prerequisites**

- Physics
- Maths C
- Maths B
- English
- Chemistry

English (4, SA) and Maths B (4, VHA) plus two (2) of Biological Science, Chemistry, Earth Science, Maths C or Physics (4, VHA). You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

**Minimum english requirements**

Students must meet the English proficiency requirements.

- IELTS (International English Language Testing System)
  - Speaking: 6.0
  - Writing: 6.0
  - Reading: 6.0
  - Listening: 6.0
  - Overall: 6.5

**Course update**

From Semester One 2013 this course will not be available for commencing students. SC01 will only be available for returning students. New students - please refer to ST01. Please contact sef.enquiry@qut.edu.au for any enquiries.

**Overview**

The Bachelor of Applied Science Dean's Scholars Accelerated Honours Program is an accelerated program designed specifically for outstanding current, or returning from a gap year, Year 12 students who completed their Year 12 education in Australia. It also offers an accelerated pathway that enables students to complete both the Bachelor of Applied Science and the Bachelor of Applied Science (Honours) courses in just three years. A scholarship is offered to students in the Bachelor of Applied Science Dean's Scholars Accelerated Honours Program. Students are accepted into the program on the basis of outstanding academic ability and an interest in scientific research.

**Professional Recognition**

As a graduate of the Bachelor of Applied Science Dean's Scholars Accelerated Honours Program you will qualify for professional recognition and employment in fields relevant to the specialisations that you have chosen. It is expected that many Dean's Scholars will proceed to Doctor of Philosophy studies.

**Financial support**

Domestic students offered a place in the Dean's Scholars Program will have their undergraduate HECS paid by the Faculty and those proceeding to Honours will also receive full HECS support.

International students will have one-third of their tuition fees paid by the faculty for the undergraduate and honours programs.
Course Structure

As a student in the Dean’s Scholars Accelerated Honours Program you will choose one of the following nine majors. You will also choose a co-major to accompany your major area of study. The co-major may be one of the other majors, or it could be one of the co-majors listed below:

**Majors:** Biochemistry, Biotechnology, Chemistry, Ecology, Environmental Science, Forensic Science, Geoscience, Microbiology, Physics.

**Co-majors:** Applied Geology, Astrophysics, Biodiversity, Chemistry for Industry, Life Science Technologies.

To allow the Dean’s Scholars Program to be completed in an accelerated format some changes are made to the first year of the standard Bachelor of Applied Science (SC01) degree. The core units normally studied in first year are replaced by an enriched course of study which includes the following units:

**SCB301 Science for Dean’s Scholars**

An intensive preparatory program immediately preceding the commencement of the first semester. This preparatory program commences mid-January and requires attendance for approximately 18 hours per week for six weeks.

**SCB303 Tutorial Program for Dean’s Scholars**

An individually-tailored tutorial program during the first semester, under the guidance of an academic mentor. This unit is designed in a consultative process involving the student, the academic mentor, and the Dean.

**SCB401 Research Methods for Dean’s Scholars**

The unit allows research skills to be developed through a literature review, experimental design considerations, research proposal formulation and writing, and the presentation of a research proposal.

**SCB501 Research Project for Dean’s Scholars**

An individually tailored research project is carried out under the supervision of a research mentor.

**Honours Program**

Following the successful completion of the coursework and your initial research project in the first two years of the program, you will then commence the Bachelor of Applied Science (Honours) course. The Honours program continues the study of your chosen scientific major and also provides the opportunity to undertake a large research project. The Honours degree provides an excellent preparation to continue onto postgraduate research.

**Note:**

The Faculty may wish to make your project or thesis work available to other students undertaking Honours studies as an exemplar. As the copyright owner of the work you have created, the Faculty will respect your rights and will seek your authorisation to share your work.

**Further Information**

For further information about this course, please contact the following:

**Course Coordinator**
Mr Richard Thomas  
Phone: +61 7 3138 8822  
Email: sef.enquiry@qut.edu.au

**Discipline Coordinators**

**Microbiology, Biochemistry, Biotechnology Majors:**
Associate Professor John Aaskov  
Phone: +61 7 3138 8822  
Email: sef.enquiry@qut.edu.au

**Chemistry Major:**
Dr Madeleine Schultz  
Phone: +61 7 3138 8822  
Email: sef.enquiry@qut.edu.au

**Physics Major:**
Dr Konstantin Momot  
Phone: +61 7 3138 8822  
Email: sef.enquiry@qut.edu.au

**Domestic Course Structure**

**Course Structure**

As a student in the Dean’s Scholars Accelerated Honours Program you will choose one of the following nine majors. You will also choose a co-major to accompany your major area of study. The co-major may be one of the other majors, or it could be one of the co-majors listed below:

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**Co-majors:** Applied Geology, Astrophysics, Biodiversity, Chemistry for Industry, Life Science Technologies.

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International Course structure

Course Structure
As a student in the Dean's Scholars Accelerated Honours Program you will choose one of the following nine majors. You will also choose a co-major to accompany your major area of study. The co-major may be one of the other majors, or it could be one of the co-majors listed below:


To allow the Dean's Scholars Program to be completed in an accelerated format some changes are made to the first year of the standard Bachelor of Applied Science (SC01) degree. The core units normally studied in first year are replaced by an enriched course of study which includes the following units:

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Note
The Faculty may wish to make your project or thesis work available to other students undertaking Honours studies as an exemplar. As the copyright owner of the work you have created, the Faculty will respect your rights and will seek your authorisation to share your work.
Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English
- Chemistry

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

International Subject prerequisites
- Maths B
- English
- Chemistry

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>speaking</th>
<th>6.0</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td></td>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td></td>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td></td>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Discontinuation
As of 2013, ST50 will only be available for continuing students. No further intakes will be accepted.
Please contact sef.enquiry@qut.edu.au for any enquiries.

Professional Recognition
On graduation, you will be eligible to join professional organisations relevant to your disciplinary specialisation, the Association of Professional Engineers, Scientists and Managers, Australia and the Australian Institute of Management.

Your Course
Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4
You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Further Information
For further information about this course, please contact:

Course Coordinator
Associate Professor Chris Collet
Phone: +61 7 3138 5173
Email: c.collet@qut.edu.au
Bachelor of Technology Innovation (Biochemistry)

**Table**

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
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</thead>
<tbody>
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<td>Duration (part-time domestic)</td>
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<td>Rank</td>
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</tr>
<tr>
<td>OP Guarantee</td>
<td>Yes</td>
</tr>
<tr>
<td>Campus</td>
<td>Gardens Point</td>
</tr>
<tr>
<td>Domestic fee (indicative)</td>
<td>2012: CSP $2,260 per Semester</td>
</tr>
<tr>
<td>International fee (indicative)</td>
<td>2012: $12,500 per Semester</td>
</tr>
<tr>
<td>Total credit points</td>
<td>384</td>
</tr>
<tr>
<td>Credit points full-time sem.</td>
<td>48</td>
</tr>
<tr>
<td>Dom. Start Months</td>
<td>February</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Associate Professor Chris Collet</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td></td>
</tr>
</tbody>
</table>

**Domestic Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English
- Chemistry

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

**International Subject prerequisites**

- Maths B
- English
- Chemistry

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Why Choose This Course**

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

**Professional Recognition**

Graduates are eligible for membership of the Australian Society for Biochemistry and Molecular Biology (ASBMB), and in some cases the Australasian Association of Clinical Biochemists (AACB).

**Your Course**

**Year 1**

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

**Year 2**

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

**Year 3**

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extracurricular networking events and an industry career.

**Year 4**

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

**Domestic Course structure**

**Your course**

**Year 1**

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.
Bachelor of Technology Innovation (Biochemistry)

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
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Sample Structure
Seminars

<table>
<thead>
<tr>
<th>Year 1, Semester 1</th>
<th>SCB110</th>
<th>Science Concepts and Global Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCB111</td>
<td>Chemistry 1</td>
<td></td>
</tr>
<tr>
<td>SCB112</td>
<td>Cellular Basis of Life</td>
<td></td>
</tr>
<tr>
<td>Plus ONE of the following units:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAB101</td>
<td>Statistical Data Analysis 1</td>
<td></td>
</tr>
<tr>
<td>MAB105</td>
<td>Preparatory Mathematics</td>
<td></td>
</tr>
<tr>
<td>MAB120</td>
<td>Algebra and Calculus</td>
<td></td>
</tr>
<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
<td></td>
</tr>
</tbody>
</table>

1. Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105.
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101.

Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

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International Course structure
Your course

Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.
# Bachelor of Technology Innovation (Biochemistry)

<table>
<thead>
<tr>
<th>Units</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>STB709</td>
<td>Innovation and Commercialisation Project</td>
</tr>
<tr>
<td>LQB386</td>
<td>Microbial Structure and Function</td>
</tr>
<tr>
<td>LQB388</td>
<td>Medical Physiology 1</td>
</tr>
<tr>
<td># Recommended Year 2 Semester 2 Units</td>
<td></td>
</tr>
<tr>
<td>Any TWO units listed below provided prerequisites are met:</td>
<td></td>
</tr>
<tr>
<td>LQB484</td>
<td>Introduction to Genomics and Bioinformatics</td>
</tr>
<tr>
<td>LQB486</td>
<td>Clinical Microbiology 1</td>
</tr>
<tr>
<td>LQB488</td>
<td>Medical Physiology 2</td>
</tr>
<tr>
<td>LQB489</td>
<td>Plant Physiology and Cell Biology</td>
</tr>
</tbody>
</table>
This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=16001. CRICOS No.00213J

Bachelor of Technology Innovation (Biomedical Science)

<table>
<thead>
<tr>
<th>Handbook</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Domestic Assumed knowledge</strong></td>
</tr>
<tr>
<td>Before you start this course we assume you have sound knowledge in these areas:</td>
</tr>
<tr>
<td>- Maths B</td>
</tr>
<tr>
<td>- English</td>
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<td>- Chemistry</td>
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</tr>
</tbody>
</table>

| International Subject prerequisites |
| - Maths B |
| - English |
| - Chemistry |
| You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. |

| Minimum english requirements |
| Students must meet the English proficiency requirements. |
| **IELTS (International English Language Testing System)** |
| speaking | 6.0 |
| writing | 6.0 |
| reading | 6.0 |
| listening | 6.0 |
| overall | 6.5 |

**Why Choose This Course**

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

**Professional Recognition**

On graduation, you will be eligible to join professional organisations relevant to your disciplinary specialisation, the Association of Professional Engineers, Scientists and Managers, Australia and the Australian Institute of Management.

**Your Course**

**Year 1**

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

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**Year 3**

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

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**Domestic Course structure**

**Your course**

**Year 1**

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.
Bachelor of Technology Innovation (Biomedical Science)

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

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Sample Structure

Seminars
- Year 1, Semester 1
- Year 1, Semester 2
- Year 2, Semester 1
- Year 2, Semester 2
- Year 3, Semester 1
- Year 3, Semester 2
- Year 4, Semester 1
- Year 4, Semester 2

International Course structure
Your course
Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

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Sample Structure

Seminars
- Year 1, Semester 1
- Year 1, Semester 2
- Year 2, Semester 1
- Year 2, Semester 2
- Year 3, Semester 1
- Year 3, Semester 2
- Year 4, Semester 1
- Year 4, Semester 2

Code | Title
--- | ---
LQB484 | Introduction to Genomics and Bioinformatics
LQB486 | Clinical Microbiology 1
LSB425 | Quantitative Medical Science

Year 3, Semester 1
- BSB115 Management
- STB551 Engaging with the Innovation Industry
- Plus any TWO of the following five units
- LQB583 Genetic Research Technology
- LQB584 Medical Cell Biology
- LQB586 Clinical Microbiology 2
- LSB525 Chemical Pathology
- Elective

Year 3, Semester 2
- BSB126 Marketing
- MGB223 Entrepreneurship and Innovation
- Plus any TWO units of the following five units provided the prerequisites are met:
- LQB488 Medical Physiology 2
- LQB684 Medical Biotechnology
- LSB625 Diagnostic Endocrinology
- LSB658 Clinical Physiology
- Elective

Year 4, Semester 1
- AMB240 Marketing Planning and Management
- LWS007 Introduction To Intellectual Property Law
- MGB324 Managing Business Growth
- STB709-1 Innovation and Commercialisation Project

Year 4, Semester 2
- BSB311 Innovation Commercialisation Strategies
- MGB225 Intercultural Communication and Negotiation Skills
- STB709-2 Innovation and Commercialisation Project
- STB709-3 Innovation and Commercialisation Project
Bachelor of Technology Innovation (Biotechnology)

**Domestic Assumed knowledge**
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English
- Chemistry

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

**International Subject prerequisites**
- Maths B
- English
- Chemistry

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

**Minimum english requirements**
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
<tbody>
<tr>
<td>speaking</td>
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<tr>
<td>writing</td>
</tr>
<tr>
<td>reading</td>
</tr>
<tr>
<td>listening</td>
</tr>
<tr>
<td>overall</td>
</tr>
</tbody>
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**Why Choose This Course**
If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

**Professional Recognition**
Graduates are eligible for membership of AusBiotech Ltd, Australian Society for Biochemistry and Molecular Biology (ASBMB) and, depending on unit selection, Australian Society for Medical Research (ASMR) and the Australian Society for Microbiology (ASM).

**Your Course**

**Year 1**
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

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**Domestic Course structure**

**Your course**

**Year 1**
You will be able to choose units from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.
Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through an action learning framework, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy-style projects and extra-curricular networking events and an industry career.

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Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
<th>Year 1 Semester 1</th>
<th>Year 1 Semester 2</th>
<th>Year 2 Semester 1</th>
<th>Year 2 Semester 2</th>
<th>Year 3 Semester 1</th>
<th>Year 3 Semester 2</th>
<th>Year 4 Semester 1</th>
<th>Year 4 Semester 2</th>
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</thead>
<tbody>
<tr>
<td>Code</td>
<td>SCB110</td>
<td>SCB110</td>
<td>SCB110</td>
<td>SCB110</td>
<td>SCB110</td>
<td>SCB110</td>
<td>SCB110</td>
<td>SCB110</td>
</tr>
</tbody>
</table>

Year 1 Semester 1
- SCB110 Science Concepts and Global Systems
- SCB111 Chemistry 1
- SCB112 Cellular Basis of Life
- Plus ONE of the following units
  - MAB101 Statistical Data Analysis 1
  - MAB105 Preparatory Mathematics
  - MAB120 Algebra and Calculus
  - MAB121 Calculus and Differential Equations

NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101

Year 2 Semester 2
- SCB120 Plant and Animal Physiology
- SCB121 Chemistry 2
- SCB122 Cell and Molecular Biology
- SCB123 Physical Science Applications

Year 2 Semester 1
- LQB381 Biochemistry: Structure and Function
- LQB383 Molecular and Cellular Regulation
- Plus TWO units from the relevant options List which may include one unit from outside the Faculty

Year 3 Semester 1
- BSB115 Management
- STB551 Engaging with the Innovation Industry
- Plus any TWO of the three units below provided prerequisites are met
  - LQB583 Genetic Research Technology
  - LQB584 Medical Cell Biology
  - LQB585 Plant Genetic Manipulation

Year 3 Semester 2
- BSB126 Marketing
- MGB223 Entrepreneurship and Innovation
- Plus any TWO of the three units below provided prerequisites are met
  - LQB682 Protein Biochemistry and Bioengineering
  - LQB684 Medical Biotechnology
  - LQB685 Plant Microbe Interactions

Year 4 Semester 1
- AMB240 Marketing Planning and Management
# Bachelor of Technology Innovation (Biotechnology)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LWS007</td>
<td>Introduction To Intellectual Property Law</td>
</tr>
<tr>
<td>MGB324</td>
<td>Managing Business Growth</td>
</tr>
<tr>
<td>STB709-1</td>
<td>Innovation and Commercialisation Project</td>
</tr>
<tr>
<td></td>
<td><strong>Year 4 Semester 2</strong></td>
</tr>
<tr>
<td>BSB311</td>
<td>Innovation Commercialisation Strategies</td>
</tr>
<tr>
<td>MGB225</td>
<td>Intercultural Communication and Negotiation Skills</td>
</tr>
<tr>
<td>STB709-2</td>
<td>Innovation and Commercialisation Project</td>
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<tr>
<td>STB709-3</td>
<td>Innovation and Commercialisation Project</td>
</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=16002. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=16002. CRICOS No.00213J)
Bachelor of Technology Innovation (Chemistry)

<table>
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<tr>
<th>Year</th>
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<tbody>
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<td>070694G</td>
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<tr>
<td>Duration (full-time)</td>
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</tr>
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<td>Duration (part-time domestic)</td>
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<td>OP</td>
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<td>Rank</td>
<td>76</td>
</tr>
<tr>
<td>OP Guarantee</td>
<td>Yes</td>
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<td>Campus</td>
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<tr>
<td>Total credit points</td>
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</tr>
<tr>
<td>Credit points full-time sem.</td>
<td>48</td>
</tr>
<tr>
<td>Dom. Start Months</td>
<td>February</td>
</tr>
<tr>
<td>Deferment</td>
<td>You can defer your offer and postpone the start of your course for one year</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Associate Professor Chris Collet</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
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</tr>
</tbody>
</table>

### Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English
- Chemistry

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

### International Subject prerequisites

- Maths B
- English
- Chemistry

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

### Minimum english requirements

Students must meet the English proficiency requirements.

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### Why Choose This Course

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### Your Course

#### Year 1

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### Domestic Course structure

#### Your course

#### Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.
Bachelor of Technology Innovation (Chemistry)

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4
You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Sample Structure

Seminars

Year 1 Semester 1
- SCB110 Science Concepts and Global Systems
- SCB111 Chemistry 1
- SCB112 Cellular Basis of Life
- Plus ONE of the following units
  - MAB101 Statistical Data Analysis 1
  - MAB105 Preparatory Mathematics
  - MAB120 Algebra and Calculus
  - MAB121 Calculus and Differential Equations

Year 1 Semester 2
- SCB110 Science Concepts and Global Systems
- SCB111 Chemistry 1
- SCB112 Cellular Basis of Life
- Plus ONE of the following units
  - MAB101 Statistical Data Analysis 1
  - MAB105 Preparatory Mathematics
  - MAB120 Algebra and Calculus
  - MAB121 Calculus and Differential Equations

Year 2 Semester 1
- SCB110 Science Concepts and Global Systems
- SCB111 Chemistry 1
- SCB112 Cellular Basis of Life
- Plus ONE of the following units
  - MAB101 Statistical Data Analysis 1
  - MAB105 Preparatory Mathematics
  - MAB120 Algebra and Calculus
  - MAB121 Calculus and Differential Equations

Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2
- SCB121 Chemistry 2
- SCB123 Physical Science Applications
- SCB131 Experimental Chemistry
- Plus ONE of the following two units
  - MAB120 Algebra and Calculus
  - SCB122 Cell and Molecular Biology

Year 2 Semester 1
- PQB312 Analytical Chemistry For Scientists and Technologists
- PQB331 Structure and Bonding
- Plus TWO units from the relevant options List which may include one unit from outside the Faculty

Year 2 Semester 2
- PQB401 Reaction Kinetics, Thermodynamics and Mechanisms
- PQB442 Chemical Spectroscopy
- Plus TWO units from the relevant options List which may include one unit from outside the Faculty

Year 3 Semester 1
- BSB115 Management
- PQB502 Advanced Physical Chemistry
- PQB531 Organic Mechanisms and Synthesis
- STB551 Engaging with the Innovation Industry

Year 3 Semester 2
- BSB126 Marketing
- MGB223 Entrepreneurship and Innovation
- PQB631 Advanced Inorganic Chemistry
- PQB642 Chemical Research

Year 4 Semester 1

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=16003. CRICOS No. 00213J
### Bachelor of Technology Innovation (Chemistry)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AMB240</td>
<td>Marketing Planning and Management</td>
</tr>
<tr>
<td>LWS007</td>
<td>Introduction To Intellectual Property Law</td>
</tr>
<tr>
<td>MGB243</td>
<td>Managing Business Growth</td>
</tr>
<tr>
<td>STB709-1</td>
<td>Innovation and Commercialisation Project</td>
</tr>
<tr>
<td></td>
<td><strong>Year 4 Semester 2</strong></td>
</tr>
<tr>
<td>BSB311</td>
<td>Innovation Commercialisation Strategies</td>
</tr>
<tr>
<td>MGB225</td>
<td>Intercultural Communication and Negotiation Skills</td>
</tr>
<tr>
<td>STB709-2</td>
<td>Innovation and Commercialisation Project</td>
</tr>
<tr>
<td>STB709-3</td>
<td>Innovation and Commercialisation Project</td>
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</table>

Bachelor of Technology Innovation (Digital Media)

<table>
<thead>
<tr>
<th>Handbook</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year</td>
</tr>
<tr>
<td>QUT code</td>
</tr>
<tr>
<td>CRICOS</td>
</tr>
<tr>
<td>Duration (full-time)</td>
</tr>
<tr>
<td>Duration (part-time domestic)</td>
</tr>
<tr>
<td>OP</td>
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<tr>
<td>Rank</td>
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<tr>
<td>OP Guarantee</td>
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<tr>
<td>Campus</td>
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<tr>
<td>Domestic fee (indicative)</td>
</tr>
<tr>
<td>International fee (indicative)</td>
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<td>Total credit points</td>
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<td>Credit points full-time sem.</td>
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<tr>
<td>Dom. Start Months</td>
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<td>Deferment</td>
</tr>
<tr>
<td>Course Coordinator</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
</tr>
</tbody>
</table>

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English
- Chemistry

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

International Subject prerequisites
- Maths B
- English
- Chemistry

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
<tbody>
<tr>
<td>speaking</td>
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<tr>
<td>reading</td>
</tr>
<tr>
<td>listening</td>
</tr>
<tr>
<td>overall</td>
</tr>
</tbody>
</table>

Why Choose This Course
If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Professional Recognition
No professional accreditation is currently available for courses in the games and entertainment area.

Your Course
Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extracurricular networking events and an industry career.

Year 4
You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Domestic Course structure
Your course
Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.
### Year 2
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You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

### Sample Structure

#### Semesters
- **The course consists of four blocks of studies**
  - Year 1 Semester 1
  - Year 1 Semester 2
  - Year 2 Semester 1
  - Year 2 Semester 2
  - Year 3 Semester 1
  - Year 3 Semester 2
  - Year 4 Semester 1
  - Year 4 Semester 2
- **Block C Minor List**
- **ANIMATION:**
- **GAME DESIGN:**
- **MATHEMATICS FOR GAMES:**
- **MOBILE AND NETWORK TECHNOLOGIES:**
- **SOUND DESIGN:**
- **SOFTWARE TECHNOLOGIES:**
- **PHYSICS FOR GAMES:**

#### Code | Title
--- | ---
INB103 | Industry Insights
INB181 | Introduction to Games Production
Block C or Block D Unit
Block C or Block D Unit

#### Year 2 Semester 1
- INB385 Multimedia Systems
- KIB101 Visual Communication
- KIB204 Web Interface Design
- Block C or Block D Unit

#### Year 2 Semester 2
- INB386 Advanced Multimedia Systems
- KIB102 Visual Interactions
- Block C or Block D Unit
- Block C or Block D Unit

#### Year 3 Semester 1
- BSB115 Management
- INB345 Mobile Devices
- KIB309 Embodied Interactions
- STB551 Engaging with the Innovation Industry

#### Year 3 Semester 2
- BSB126 Marketing
- KIB314 Tangible Media
- MGB223 Entrepreneurship and Innovation
- Block C or Block D Unit

#### Year 4 Semester 1
- AMB240 Marketing Planning and Management
- LWS007 Introduction To Intellectual Property Law
- MGB324 Managing Business Growth
- STB709-1 Innovation and Commercialisation Project

#### Year 4 Semester 2
- BSB311 Innovation Commercialisation Strategies
- MGB225 Intercultural Communication and Negotiation Skills
- STB709-2 Innovation and Commercialisation Project
- STB709-3 Innovation and Commercialisation Project

#### Block C Minor List
- KIB105 Animation and Motion Graphics
- KIB108 Animation History and Practices
- KIB203 Introduction to 3D Computer Graphics

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This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=16004. CRICOS No.00213J
## Bachelor of Technology Innovation (Digital Media)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>KIB225</td>
<td>Character Development, Conceptual Design and Animation Layout</td>
</tr>
<tr>
<td>KVB105</td>
<td>Drawing for Design</td>
</tr>
<tr>
<td>KVB106</td>
<td>Drawing for Animation</td>
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</table>

**GAME DESIGN:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>KIB201</td>
<td>Concept Development for Game Design and Interactive Media</td>
</tr>
<tr>
<td>KIB202</td>
<td>Enabling Immersion</td>
</tr>
<tr>
<td>INB280</td>
<td>Fundamentals of Game Design</td>
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Plus ONE of the following two units:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INB281</td>
<td>Advanced Game Design</td>
</tr>
<tr>
<td>INB272</td>
<td>Interaction Design</td>
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**MATHEMATICS FOR GAMES:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MAB120</td>
<td>Algebra and Calculus</td>
</tr>
<tr>
<td>MAB122</td>
<td>Algebra and Analytic Geometry</td>
</tr>
<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
</tr>
<tr>
<td>MAB312</td>
<td>Linear Algebra</td>
</tr>
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</table>

[Students who have completed Maths C can substitute MAB120 with one of the following units: MAB311, MAB481 or MAB422]

**MOBILE AND NETWORK TECHNOLOGIES:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>INB102</td>
<td>Emerging Technology</td>
</tr>
<tr>
<td>INB251</td>
<td>Networks</td>
</tr>
<tr>
<td>INB350</td>
<td>Internet Protocols and Services</td>
</tr>
<tr>
<td>INB353</td>
<td>Wireless and Mobile Networks</td>
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</table>

**SOUND DESIGN:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>KMB107</td>
<td>Sound, Image, Text</td>
</tr>
<tr>
<td>KMB119</td>
<td>Music and Sound Production 1</td>
</tr>
<tr>
<td>KMB129</td>
<td>Music and Sound Production 2</td>
</tr>
<tr>
<td>KMB252</td>
<td>Multi-Platform Sound Design</td>
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**SOFTWARE TECHNOLOGIES:**

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<th>Course Title</th>
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<tbody>
<tr>
<td>INB210</td>
<td>Databases</td>
</tr>
<tr>
<td>INB250</td>
<td>Foundations of Computer Science</td>
</tr>
<tr>
<td>INB270</td>
<td>Programming</td>
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<tr>
<td>INB371</td>
<td>Data Structures and Algorithms</td>
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**PHYSICS FOR GAMES:**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
</tr>
<tr>
<td>PQB250</td>
<td>Mechanics and Electromagnetism</td>
</tr>
<tr>
<td>PQB251</td>
<td>Waves and Optics</td>
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Plus ONE of the following three units:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PQB450</td>
<td>Energy, Fields and Radiation</td>
</tr>
<tr>
<td>PQB460</td>
<td>Astrophysics 1</td>
</tr>
<tr>
<td>PCB593</td>
<td>Digital Image Processing</td>
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</table>
**Bachelor of Technology Innovation (Ecology)**

**Year**
- 2012

**QUT code**
- ST50

**CRICOS**
- 070694G

**Duration (full-time)**
- 4 years

**Duration (part-time domestic)**
- 8 years

**OP**
- 12

**Rank**
- 76

**OP Guarantee**
- Yes

**Campus**
- Gardens Point

**Domestic fee (indicative)**
- 2012: CSP $2,260 per Semester

**International fee (indicative)**
- 2012: $12,500 per Semester

**Total credit points**
- 384

**Credit points full-time sem.**
- 48

**Dom. Start Months**
- February

**Deferment**
- You can defer your offer and postpone the start of your course for one year

**Course Coordinator**
- Associate Professor Chris Collet

**Discipline Coordinator**

---

### Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas:

- Maths B
- English
- Chemistry

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

### International Subject prerequisites

- Maths B
- English
- Chemistry

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

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Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
<tbody>
<tr>
<td>speaking: 6.0</td>
</tr>
<tr>
<td>writing: 6.0</td>
</tr>
<tr>
<td>reading: 6.0</td>
</tr>
<tr>
<td>listening: 6.0</td>
</tr>
<tr>
<td>overall: 6.5</td>
</tr>
</tbody>
</table>

### Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

### Professional Recognition

Professional recognition is achieved through membership of a scientific society, for example, the Ecological Society of Australia (ESA) or the Australian Wildlife Management Society (AWMS) and participation in its meetings and professional activities.

### Your Course

#### Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

#### Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

#### Year 3

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#### Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

### Domestic Course structure

#### Your course

#### Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

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This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=16010. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=16010. CRICOS No.00213J)
Bachelor of Technology Innovation (Ecology)

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

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Sample Structure
Semesters

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>SCB110</td>
<td>Science Concepts and Global Systems</td>
</tr>
<tr>
<td>SCB111</td>
<td>Chemistry 1</td>
</tr>
<tr>
<td>SCB112</td>
<td>Cellular Basis of Life</td>
</tr>
<tr>
<td>MAB105</td>
<td>Preparatory Mathematics</td>
</tr>
<tr>
<td>MAB120</td>
<td>Calculus and Differential Equations</td>
</tr>
<tr>
<td>MAB121</td>
<td>Algebra and Calculus</td>
</tr>
<tr>
<td>MAB122</td>
<td>Anatomy and Physiology</td>
</tr>
<tr>
<td>MAB123</td>
<td>Microbiology</td>
</tr>
<tr>
<td>MAB124</td>
<td>Molecular Ecology</td>
</tr>
<tr>
<td>MAB125</td>
<td>Population Genetics and Molecular Ecology</td>
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<tr>
<td>NQB201</td>
<td>Planet Earth</td>
</tr>
<tr>
<td>NQB202</td>
<td>History of Life on Earth</td>
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<tr>
<td>SCB120</td>
<td>Plant and Animal Physiology</td>
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<tr>
<td>NQB302</td>
<td>Earth Surface Systems</td>
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Required Options List for Year 2

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>NQB321</td>
<td>Ecology</td>
</tr>
<tr>
<td>NQB322</td>
<td>Invertebrate Biology</td>
</tr>
<tr>
<td>NQB323</td>
<td>Plant Biology</td>
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<td>NQB324</td>
<td>Elective</td>
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Year 1, Semester 2

<table>
<thead>
<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>NQB201</td>
<td>Planet Earth</td>
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<tr>
<td>NQB202</td>
<td>History of Life on Earth</td>
</tr>
<tr>
<td>SCB120</td>
<td>Plant and Animal Physiology</td>
</tr>
<tr>
<td>Plus ONE of the following three units:</td>
<td></td>
</tr>
<tr>
<td>SCB121</td>
<td>Chemistry 2</td>
</tr>
<tr>
<td>SCB122</td>
<td>Cell and Molecular Biology</td>
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<tr>
<td>SCB123</td>
<td>Physical Science Applications</td>
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Year 2, Semester 1

<table>
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<tr>
<td>NQB322</td>
<td>Invertebrate Biology</td>
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<td>NQB323</td>
<td>Plant Biology</td>
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<td>Elective</td>
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Year 2, Semester 2

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<tbody>
<tr>
<td>NQB421</td>
<td>Experimental Design</td>
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<tr>
<td>NQB422</td>
<td>Genetics and Evolution</td>
</tr>
<tr>
<td>Plus TWO units from the relevant options List which may include one unit from outside of the Faculty</td>
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</table>

Year 3, Semester 1

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<tbody>
<tr>
<td>BSB115</td>
<td>Management</td>
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<td>NQB521</td>
<td>Population Genetics and Molecular Ecology</td>
</tr>
<tr>
<td>NQB523</td>
<td>Population Management</td>
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<td>STB551</td>
<td>Engaging with the Innovation Industry</td>
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Year 3, Semester 2

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<td>Marketing</td>
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<td>MGB223</td>
<td>Entrepreneurship and Innovation</td>
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<tr>
<td>NQB622</td>
<td>Conservation Biology</td>
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<tr>
<td>NQB623</td>
<td>Ecological Systems</td>
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</table>

Year 4, Semester 1

<table>
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<tbody>
<tr>
<td>AMB240</td>
<td>Marketing Planning and Management</td>
</tr>
<tr>
<td>LWS007</td>
<td>Introduction To Intellectual Property Law</td>
</tr>
<tr>
<td>MGB324</td>
<td>Managing Business Growth</td>
</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=ST506&courseID=16610. CRICOS No. 00213J
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<thead>
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<th>Semester</th>
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<tr>
<td>STB709-1</td>
<td>Innovation and Commercialisation Project</td>
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<tr>
<td>BSB311</td>
<td>Innovation Commercialisation Strategies</td>
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<tr>
<td>MGB225</td>
<td>Intercultural Communication and Negotiation Skills</td>
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</tr>
<tr>
<td>STB709-2</td>
<td>Innovation and Commercialisation Project</td>
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<tr>
<td>STB709-2</td>
<td>Innovation and Commercialisation Project</td>
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### Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English
- Chemistry

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

### International Subject prerequisites
- Maths B
- English
- Chemistry

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

### Minimum English requirements
Students must meet the English proficiency requirements.

**IELTS (International English Language Testing System)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Band</th>
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<tbody>
<tr>
<td>Speaking</td>
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</tr>
<tr>
<td>Writing</td>
<td>6.0</td>
</tr>
<tr>
<td>Reading</td>
<td>6.0</td>
</tr>
<tr>
<td>Listening</td>
<td>6.0</td>
</tr>
<tr>
<td>Overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

### Why Choose This Course
If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

### Professional Recognition
Graduates are eligible for membership of the Environment Institute of Australia and New Zealand (EIANZ) and a variety of other scientific societies, including the Soil Science Society of Australia (SSSA) and the Ecological Society of Australia (ESA).
Bachelor of Technology Innovation (Environmental Science)

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4
You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Students will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Sample Structure

Year 1 Semester 1
- MAB110 Science Concepts and Global Systems
- SCB110 Chemistry 1
- SCB112 Cellular Basis of Life
- Plus ONE of the following four units:
  - MAB101 Statistical Data Analysis 1
  - MAB105 Preparatory Mathematics
  - MAB120 Algebra and Calculus
  - MAB121 Calculus and Differential Equations

NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101

Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105

Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121

Year 2 Semester 1
- NQB202 History of Life on Earth
- SCB120 Plant and Animal Physiology
- SCB123 Physical Science Applications
- Plus ONE of the following two units:
  - NQB201 Planet Earth
  - SCB121 Chemistry 2

Year 2 Semester 2
- NQB302 Earth Surface Systems
- NQB321 Ecology
- Plus TWO units from the relevant options List which may include one unit from outside the Faculty
- Relevant Options List for Year 2 Semester 1
- NQB322 Invertebrate Biology
- NQB323 Plant Biology
- Elective

Year 3 Semester 2
- BSB115 Management
- NQB501 Environmental Modelling
- STB551 Engaging with the Innovation Industry
- Plus ONE of the following two units:
  - NQB502 Field Methods in Natural Resource Sciences
  - NQB503 Spatial Analysis of Environmental Systems

Year 3 Semester 3
- BSB126 Marketing
- MGB223 Entrepreneurship and Innovation
- NQB601 Sustainable Environmental Management
- Plus ONE of the three following units:
  - NQB602 Environmental Chemistry
  - NQB614 Groundwater Systems
  - NQB623 Ecological Systems

Year 4 Semester 1
- AMB240 Marketing Planning and Management
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>LWS007</td>
<td>Introduction To Intellectual Property Law</td>
</tr>
<tr>
<td>MGB324</td>
<td>Managing Business Growth</td>
</tr>
<tr>
<td>STB709-1</td>
<td>Innovation and Commercialisation Project</td>
</tr>
<tr>
<td></td>
<td><strong>Year 4 Semester 2</strong></td>
</tr>
<tr>
<td>BSB311</td>
<td>Innovation Commercialisation Strategies</td>
</tr>
<tr>
<td>MGB225</td>
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</tr>
<tr>
<td>STB709-2</td>
<td>Innovation and Commercialisation Project</td>
</tr>
<tr>
<td>STB709-3</td>
<td>Innovation and Commercialisation Project</td>
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This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=16013. CRICOS No.00213J.
Bachelor of Technology Innovation (Forensic Science)

Handbook

Year 2012
QUT code ST50
CRICOS 070694G
Duration (full-time) 4 years
Duration (part-time domestic) 8 years
OP 12
Rank 76
OP Guarantee Yes
Campus Gardens Point
Domestic fee (indicative) 2012: CSP $2,260 per Semester
International fee (indicative) 2012: $12,500 per Semester
Total credit points 384
Credit points full-time sem. 48
Dom. Start Months February
Deferment You can defer your offer and postpone the start of your course for one year
Course Coordinator Associate Professor Chris Collet
Discipline Coordinator

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English
- Chemistry

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

International Subject prerequisites
- Maths B
- English
- Chemistry

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
- speaking 6.0
- writing 6.0
- reading 6.0
- listening 6.0
- overall 6.5

Why Choose This Course
If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Professional Recognition
Graduates may be eligible for membership of the Australian and New Zealand Forensic Society (ANZFSS), AusBiotech Ltd, the Australian Society for Biochemistry and Molecular Biology (ASBMB), and the Royal Australian Chemical Institute (RACI).

Your Course
Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

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You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Domestic Course structure
Your course
Year 1
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Bachelor of Technology Innovation (Forensic Science)

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
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Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>Year 1, Semester 1</td>
<td>SCB110</td>
<td>Science Concepts and Global Systems</td>
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<td></td>
<td>SCB111</td>
<td>Chemistry 1</td>
</tr>
<tr>
<td></td>
<td>SCB112</td>
<td>Cellular Basis of Life</td>
</tr>
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<td>Plus ONE from the following four units:</td>
<td>MAB101</td>
<td>Statistical Data Analysis 1</td>
</tr>
<tr>
<td></td>
<td>MAB105</td>
<td>Preparatory Mathematics</td>
</tr>
<tr>
<td></td>
<td>MAB120</td>
<td>Algebra and Calculus</td>
</tr>
<tr>
<td></td>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
</tr>
<tr>
<td>NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

International Course Structure

Your course

Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 1, Semester 2

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>SCB121</td>
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<td>SCB122</td>
<td>Cell and Molecular Biology</td>
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<tr>
<td>SCB123</td>
<td>Physical Science Applications</td>
</tr>
<tr>
<td>SCB131</td>
<td>Experimental Chemistry</td>
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</table>

Year 2, Semester 1

<table>
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<tr>
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<tbody>
<tr>
<td>LQB383</td>
<td>Molecular and Cellular Regulation</td>
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<tr>
<td>SCB384</td>
<td>Forensic Sciences - From Crime Scene to Court</td>
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Year 3, Semester 2

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<tbody>
<tr>
<td>JSB979</td>
<td>Forensic Scientific Evidence</td>
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<tr>
<td>PQB312</td>
<td>Analytical Chemistry For Scientists and Technologists</td>
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Year 4, Semester 1

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Year 3, Semester 1

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<tr>
<td>BSB115</td>
<td>Management</td>
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<tr>
<td>PQB513</td>
<td>Instrumental Analysis</td>
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<tr>
<td>PQB584</td>
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Year 4, Semester 2

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<td>Entrepreneurship and Innovation</td>
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<tr>
<td>LQB680</td>
<td>Forensic DNA Profiling</td>
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<td>PQB684</td>
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Year 4, Semester 1

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Year 4, Semester 2

<table>
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<td>BSB311</td>
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<tr>
<td>MGB225</td>
<td>Intercultural Communication and Negotiation Skills</td>
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</table>
Bachelor of Technology Innovation (Forensic Science)

<table>
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<tbody>
<tr>
<td>STB709-2</td>
<td>Innovation and Commercialisation Project</td>
</tr>
<tr>
<td>STB709-3</td>
<td>Innovation and Commercialisation Project</td>
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</tbody>
</table>
Bachelor of Technology Innovation (Games Technology)

**Year** 2012

**QUT code** ST50

**CRICOS** 070694G

**Duration (full-time)** 4 years

**Duration (part-time domestic)** 8 years

**OP** 12

**Rank** 76

**Campus** Gardens Point

**Domestic fee (indicative)** 2012: CSP $2,260 per Semester

**International fee (indicative)** 2012: $12,500 per Semester

**Total credit points** 384

**Credit points full-time sem.** 48

**Dom. Start Months** February

**Deferment** You can defer your offer and postpone the start of your course for one year

**Course Coordinator** Associate Professor Chris Collet

**Discipline Coordinator**

---

### Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English
- Chemistry

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

### International Subject prerequisites
- Maths B
- English
- Chemistry

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

### Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>Speaking</th>
<th>Writing</th>
<th>Reading</th>
<th>Listening</th>
<th>Overall</th>
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</thead>
<tbody>
<tr>
<td>speaking</td>
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<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.5</td>
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</tbody>
</table>

### Why Choose This Course
If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

### Professional Recognition
No professional accreditation is currently available for courses in the games and entertainment area.

---

**Your Course**

#### Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

#### Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

#### Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

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### Domestic Course structure

#### Your course

#### Year 1
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International Course structure

Your course

Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Sample Structure Semesters

- The course consists of four blocks of studies
  - Year 1 Semester 1
  - Year 1 Semester 2
  - Year 2 Semester 1
  - Year 2 Semester 2
  - Year 3 Semester 1
  - Year 3 Semester 2
  - Year 4 Semester 1
  - Year 4 Semester 2
  - BLOCK C Minor Units List

ANIMATION:
- ADVANCED SOFTWARE TECHNOLOGIES:
  - DIGITAL MEDIA:
  - GAME DESIGN:
  - MATHEMATICS FOR GAMES:
  - MOBILE AND NETWORK TECHNOLOGIES:
  - SOUND DESIGN:
  - PHYSICS FOR GAMES:

Code | Title
--- | ---
INB182 | Introducing Design
INB101 | Impact of IT
INB104 | Building IT Systems
INB180 | Computer Games Studies

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=16012. CRICOS No. 00213J.
### Bachelor of Technology Innovation (Games Technology)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>KIB105</td>
<td>Animation and Motion Graphics</td>
</tr>
<tr>
<td>KIB108</td>
<td>Animation History and Practices</td>
</tr>
<tr>
<td>KIB108</td>
<td>Animation History and Practices</td>
</tr>
<tr>
<td>KIB225</td>
<td>Character Development, Conceptual Design and Animation Layout</td>
</tr>
<tr>
<td>KVB105</td>
<td>Drawing for Design</td>
</tr>
<tr>
<td>KVB106</td>
<td>Drawing for Animation</td>
</tr>
<tr>
<td>KIB101</td>
<td>Visual Communication</td>
</tr>
<tr>
<td>KIB102</td>
<td>Visual Interactions</td>
</tr>
<tr>
<td>KIB201</td>
<td>Concept Development for Game Design and Interactive Media</td>
</tr>
<tr>
<td>KIB202</td>
<td>Enabling Immersion</td>
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<tr>
<td>INB280</td>
<td>Fundamentals of Game Design</td>
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<td>INB374</td>
<td>Enterprise Software Architecture</td>
</tr>
<tr>
<td>INB365</td>
<td>Systems Programming</td>
</tr>
<tr>
<td>INB372</td>
<td>Agile Software Development</td>
</tr>
<tr>
<td>INB382</td>
<td>Real Time Rendering Techniques</td>
</tr>
<tr>
<td>INB383</td>
<td>AI for Games</td>
</tr>
<tr>
<td>INB385</td>
<td>Multimedia Systems</td>
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<tr>
<td>INB386</td>
<td>Advanced Multimedia Systems</td>
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<td>KIB202</td>
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<td>KIB201</td>
<td>Concept Development for Game Design and Interactive Media</td>
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<td>INB102</td>
<td>Emerging Technology</td>
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<td>INB350</td>
<td>Internet Protocols and Services</td>
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<tr>
<td>INB353</td>
<td>Wireless and Mobile Networks</td>
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#### ADVANCED SOFTWARE TECHNOLOGIES:

<table>
<thead>
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<th>Code</th>
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<tbody>
<tr>
<td>INB365</td>
<td>Systems Programming</td>
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<td>INB372</td>
<td>Agile Software Development</td>
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<tr>
<td>INB374</td>
<td>Enterprise Software Architecture</td>
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</tr>
<tr>
<td>INB102</td>
<td>Visual Interactions</td>
</tr>
<tr>
<td>INB365</td>
<td>Systems Programming</td>
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<td>Systems Programming</td>
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#### DIGITAL MEDIA:

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>INB385</td>
<td>Multimedia Systems</td>
</tr>
<tr>
<td>INB386</td>
<td>Advanced Multimedia Systems</td>
</tr>
<tr>
<td>KIB101</td>
<td>Visual Communication</td>
</tr>
<tr>
<td>KIB102</td>
<td>Visual Interactions</td>
</tr>
<tr>
<td>KIB201</td>
<td>Concept Development for Game Design and Interactive Media</td>
</tr>
<tr>
<td>KIB202</td>
<td>Enabling Immersion</td>
</tr>
<tr>
<td>INB272</td>
<td>Interaction Design</td>
</tr>
<tr>
<td>INB281</td>
<td>Advanced Game Design</td>
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#### GAME DESIGN:

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>KIB252</td>
<td>Multi-Platform Sound Design</td>
</tr>
<tr>
<td>KKB216</td>
<td>Audio/Visual Interaction</td>
</tr>
<tr>
<td>MAB120</td>
<td>Algebra and Calculus</td>
</tr>
<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
</tr>
<tr>
<td>MAB122</td>
<td>Algebra and Analytic Geometry</td>
</tr>
<tr>
<td>MAB312</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td>KMB119</td>
<td>Music and Sound Production 1</td>
</tr>
<tr>
<td>KMB129</td>
<td>Music and Sound Production 2</td>
</tr>
<tr>
<td>KMB129</td>
<td>Music and Sound Production 2</td>
</tr>
<tr>
<td>KMB252</td>
<td>Multi-Platform Sound Design</td>
</tr>
<tr>
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<td>Algebra and Analytic Geometry</td>
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<td>MAB312</td>
<td>Linear Algebra</td>
</tr>
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#### PHYSICS FOR GAMES:

<table>
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<tbody>
<tr>
<td>MAB120</td>
<td>Algebra and Calculus</td>
</tr>
<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
</tr>
<tr>
<td>MAB122</td>
<td>Algebra and Analytic Geometry</td>
</tr>
<tr>
<td>PQB250</td>
<td>Mechanics and Electromagnetism</td>
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<tr>
<td>PQB251</td>
<td>Waves and Optics</td>
</tr>
<tr>
<td>PQB450</td>
<td>Energy, Fields and Radiation</td>
</tr>
<tr>
<td>PQB460</td>
<td>Astrophysics 1</td>
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<tr>
<td>PCB593</td>
<td>Digital Image Processing</td>
</tr>
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#### SOUND DESIGN:

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>KMB107</td>
<td>Sound, Image, Text</td>
</tr>
<tr>
<td>KMB119</td>
<td>Music and Sound Production 1</td>
</tr>
<tr>
<td>KMB129</td>
<td>Music and Sound Production 2</td>
</tr>
<tr>
<td>KMB252</td>
<td>Multi-Platform Sound Design</td>
</tr>
<tr>
<td>KKB216</td>
<td>Audio/Visual Interaction</td>
</tr>
<tr>
<td>MAB120</td>
<td>Algebra and Calculus</td>
</tr>
<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
</tr>
<tr>
<td>MAB122</td>
<td>Algebra and Analytic Geometry</td>
</tr>
<tr>
<td>MAB312</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td>KMB119</td>
<td>Music and Sound Production 1</td>
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<tr>
<td>KMB129</td>
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<td>KKB216</td>
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</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=16012. CRICOS No.00213](http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=16012. CRICOS No.00213).
Bachelor of Technology Innovation (Geoscience)

Handbook

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
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<tbody>
<tr>
<td>QUT code</td>
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<td>Duration (part-time domestic)</td>
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<td>Rank</td>
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<td>OP Guarantee</td>
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<td>Campus</td>
<td>Gardens Point</td>
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<td>Domestic fee (indicative)</td>
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<td>International fee (indicative)</td>
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<td>Dom. Start Months</td>
<td>February</td>
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<tr>
<td>Deferment</td>
<td>You can defer your offer and postpone the start of your course for one year</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Associate Professor Chris Collet</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td></td>
</tr>
</tbody>
</table>

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English
- Chemistry

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

International Subject prerequisites
- Maths B
- English
- Chemistry

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
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<tr>
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<tr>
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<tr>
<td>reading</td>
</tr>
<tr>
<td>listening</td>
</tr>
<tr>
<td>overall</td>
</tr>
</tbody>
</table>

Why Choose This Course
If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Professional Recognition
Graduates are eligible for membership of the Australasian Institute of Mining and Metallurgy (AIME), Australian Institute of Geoscientists (AIG), and the Geological Society of Australia (GSA).

Your Course

Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4
You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Domestic Course structure

Your course

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Bachelor of Technology Innovation (Geoscience)

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Sample Structure
Semesters

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>SCB110</td>
<td>Science Concepts and Global Systems</td>
</tr>
<tr>
<td>SCB111</td>
<td>Chemistry 1</td>
</tr>
<tr>
<td>SCB112</td>
<td>Cellular Basis of Life</td>
</tr>
<tr>
<td>MAB101</td>
<td>Statistical Data Analysis 1</td>
</tr>
<tr>
<td>MAB105</td>
<td>Preparatory Mathematics</td>
</tr>
<tr>
<td>MAB120</td>
<td>Algebra and Calculus</td>
</tr>
<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
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</table>

NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB105
Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105
Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=16011. CRICOS No. 00213J

International Course structure

Your course
Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2
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Bachelor of Technology Innovation (Geoscience)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>STB709-1</td>
<td>Innovation and Commercialisation Project</td>
</tr>
<tr>
<td>BSB311</td>
<td>Innovation Commercialisation Strategies</td>
</tr>
<tr>
<td>MGB225</td>
<td>Intercultural Communication and Negotiation Skills</td>
</tr>
<tr>
<td>STB709-2</td>
<td>Innovation and Commercialisation Project</td>
</tr>
<tr>
<td>STB709-3</td>
<td>Innovation and Commercialisation Project</td>
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</table>

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# Bachelor of Technology Innovation (Information Technology)

<table>
<thead>
<tr>
<th>Handbook</th>
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<tbody>
<tr>
<td>Year</td>
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<tr>
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<tr>
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<td>Duration (part-time domestic)</td>
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<td>International fee (indicative)</td>
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<tr>
<td>Total credit points</td>
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<td>Credit points full-time sem.</td>
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<td>Dom. Start Months</td>
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<td>Deferment</td>
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<tr>
<td>Course Coordinator</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
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## Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas:

- Maths B
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- Chemistry

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

## International Subject prerequisites

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You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

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<td>6.0</td>
<td>6.0</td>
<td>6.5</td>
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## Professional Recognition

On graduation, you will be eligible to join professional organisations relevant to your disciplinary specialisation, the Association of Professional Engineers, Scientists and Managers, Australia and the Australian Institute of Management.

## Your Course

### Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

### Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

### Year 3

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

### Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

## Domestic Course structure

### Your course

**Year 1**

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**Year 2**

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**Sample Structure**

**Seminars**

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INB101</td>
<td>Impact of IT</td>
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</tr>
<tr>
<td>INB102</td>
<td>Emerging Technology</td>
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<tr>
<td>INB103</td>
<td>Industry Insights</td>
<td></td>
</tr>
<tr>
<td>INB104</td>
<td>Building IT Systems</td>
<td></td>
</tr>
</tbody>
</table>

**Year 1 Semester 2**

Choose THREE units from the IT Breadth Options List

Plus ONE unit which may be any Faculty of Science and Technology unit or a unit from another Faculty

Please note that students must take a total of TWO Faculty of Science and Technology Units and a total of TWO units from another Faculty

**Year 2 Semester 1**

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>INB201</td>
<td>Scalable Systems Development</td>
</tr>
</tbody>
</table>

Plus ONE unit from the IT Breadth Options List

Plus ONE unit which may be any Faculty of Science and Technology unit or a unit from another Faculty

Plus ONE unit from the IT Specialisation Options List

Please note that students must take a total of TWO Faculty of Science and Technology Units and a total of TWO units from another Faculty

**Year 2 Semester 2**

Choose ONE unit from the IT Specialisation Options List

Plus TWO units which may be any Faculty of Science and Technology unit or a unit from another Faculty

**Year 3 Semester 1**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>AMB240</td>
<td>Marketing Planning and Management</td>
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<tr>
<td>LWS007</td>
<td>Introduction To Intellectual Property Law</td>
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<tr>
<td>MGB324</td>
<td>Managing Business Growth</td>
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<tr>
<td>STB709-1</td>
<td>Innovation and Commercialisation Project</td>
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**Year 4 Semester 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSB311</td>
<td>Innovation Commercialisation Strategies</td>
</tr>
<tr>
<td>MGB225</td>
<td>Intercultural Communication and Negotiation Skills</td>
</tr>
<tr>
<td>STB709-2</td>
<td>Innovation and Commercialisation Project</td>
</tr>
<tr>
<td>STB709-3</td>
<td>Innovation and Commercialisation Project</td>
</tr>
</tbody>
</table>

**Year 4 Semester 2**

Choose ONE unit from the IT Specialisation Options List

Plus TWO units which may be any Faculty of Science and Technology unit or a unit from another Faculty

Please note that students must take a total of TWO Faculty of Science and Technology Units and a total of TWO units from another Faculty

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INB120</td>
<td>Corporate Systems</td>
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<tr>
<td>INB210</td>
<td>Databases</td>
</tr>
<tr>
<td>INB220</td>
<td>Business Analysis</td>
</tr>
<tr>
<td>INB250</td>
<td>Foundations of Computer Science</td>
</tr>
<tr>
<td>INB251</td>
<td>Networks</td>
</tr>
<tr>
<td>INB255</td>
<td>Security</td>
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<tr>
<td>INB270</td>
<td>Programming</td>
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<tr>
<td>INB271</td>
<td>The Web</td>
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<td>INB272</td>
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**International Course structure**

**Your course**

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Students must complete FOUR units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units.

**ENTERPRISE SYSTEMS:**
- INB123  Project Management Practice
- INB221  Technology Management
- INB311  Enterprise Systems
- INB312  Enterprise Systems Applications

**WEB TECHNOLOGIES:**
- INB313  Electronic Commerce Site Development
- INB373  Web Application Development
- INB374  Enterprise Software Architecture
- INB385  Multimedia Systems
- INB386  Advanced Multimedia Systems

**BUSINESS PROCESS MANAGEMENT:**
- INB320  Business Process Modelling
- INB321  Business Process Improvement
- INB322  Information Systems Consulting

**DATA WAREHOUSING:**
- INB340  Database Design
- INB341  Software Development With Oracle
- INB342  Enterprise Data Mining and Data Analysis
- INB343  Data Warehousing and Mining

**NETWORK SYSTEMS:**
- INB350  Internet Protocols and Services
- INB351  Unix Network Administration
- INB352  Network Planning
- INB353  Wireless and Mobile Networks

**SOFTWARE ENGINEERING:**
- INB370  Software Development
- INB371  Data Structures and Algorithms
- INB372  Agile Software Development
- INB374  Enterprise Software Architecture

**DIGITAL ENVIRONMENTS**
- Information Issues and Values
- INB345  Mobile Devices
- INB346  Enterprise 2.0
- INB347  Web 2.0 Applications

**UNGROUPED UNITS:**
- INB355  Cryptology and Protocols
- INB365  Systems Programming
- INB860  Computational Intelligence for Control and Embedded Systems
Bachelor of Technology Innovation (Microbiology)

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=15997. CRICOS No.00213J

<table>
<thead>
<tr>
<th>Domestic Assumed knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before you start this course we assume you have sound knowledge in these areas</td>
</tr>
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<td>- Maths B</td>
</tr>
<tr>
<td>- English</td>
</tr>
<tr>
<td>- Chemistry</td>
</tr>
</tbody>
</table>

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

<table>
<thead>
<tr>
<th>International Subject prerequisites</th>
</tr>
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<tbody>
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<td>- Maths B</td>
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</table>

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

<table>
<thead>
<tr>
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<tbody>
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</table>

<table>
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<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
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<tr>
<td>speaking: 6.0</td>
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<tr>
<td>writing: 6.0</td>
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<tr>
<td>reading: 6.0</td>
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<tr>
<td>listening: 6.0</td>
</tr>
<tr>
<td>overall: 6.5</td>
</tr>
</tbody>
</table>

Professional Recognition
Graduates are eligible for membership of the Australian Society for Microbiology (ASM).

Your Course

Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4
You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Domestic Course structure

Your course

Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

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### Sample Structure

#### Semesters

- **Year 1 Semester 1**
- **Year 1 Semester 2**
- **Year 2 Semester 1**
- **Year 2 Semester 2**
- **Year 3 Semester 1**
- **Year 3 Semester 2**
- **Year 4 Semester 1**
- **Year 4 Semester 2**

#### Code | Title
--- | ---
SCB110 | Science Concepts and Global Systems
SCB111 | Chemistry 1
SCB112 | Cellular Basis of Life
MAB105 | Preparatory Mathematics
MAB120 | Algebra and Calculus
MAB121 | Calculus and Differential Equations

**NOTE:** Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101

Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105

Students with a Sound Achievement in Mathematics or Physics should enrol in MAB121

Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

#### Year 1 Semester 2
- **SCB120** Plant and Animal Physiology
- **SCB121** Chemistry 2
- **SCB122** Cell and Molecular Biology
- **SCB123** Physical Science Applications

#### Year 2 Semester 1
- **LQB381** Biochemistry: Structure and Function
- **LQB386** Microbial Structure and Function

Plus TWO units from the relevant options List which may include one unit from outside the Faculty

Relevant Options List for Year 2 Semester 1:

- **LQB383** Molecular and Cellular Regulation
- **LQB388** Medical Physiology 1
- **Elective**

#### Year 2 Semester 2
- **LQB483** Molecular Biology Techniques
- **LQB486** Clinical Microbiology 1
- **Elective**

Plus TWO units from the relevant options List which may include one unit from outside the Faculty

Relevant Options List for Year 2 Semester 2:

- **LQB481** Biochemical Pathways and Metabolism
- **LQB484** Introduction to Genomics and Bioinformatics
- **LQB488** Medical Physiology 2
- **LQB489** Plant Physiology and Cell Biology
- **Elective**

#### Year 3 Semester 1
- **BSB115** Management
- **LQB586** Clinical Microbiology 2
- **LQB587** Applied Microbiology 1: Water, Air and Soil
- **STB551** Engaging with the Innovation Industry

#### Year 3 Semester 2
- **BSB126** Marketing
- **MGB223** Entrepreneurship and Innovation
- **LQB686** Microbial Technology and Immunology
- **LQB687** Applied Microbiology 2: Food and Quality Assurance

#### Year 4 Semester 1
- **AMB240** Marketing Planning and Management
- **LWS007** Introduction To Intellectual Property Law
- **MGB324** Managing Business Growth
- **STB709-1** Innovation and Commercialisation Project

#### Year 4 Semester 2
- **BSB311** Innovation Commercialisation Strategies
- **MGB225** Intercultural Communication and Negotiation Skills
- **STB709-2** Innovation and Commercialisation Project
- **STB709-3** Innovation and Commercialisation Project
Bachelor of Technology Innovation (Physics)

**Year** 2012

**QUT code** ST50

**CRICOS** 070694G

**Duration (full-time)** 4 years

**Duration (part-time domestic)** 8 years

**OP** 12

**Rank** 76

**OP Guarantee** Yes

**Campus** Gardens Point

**Domestic fee (indicative)** 2012: CSP $2,260 per Semester

**International fee (indicative)** 2012: $12,500 per Semester

**Total credit points** 384

**Credit points full-time sem.** 48

**Dom. Start Months** February

**Deferment** You can defer your offer and postpone the start of your course for one year

**Course Coordinator** Associate Professor Chris Collet

**Discipline Coordinator**

---

**Domestic Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas:

- Maths B
- English
- Chemistry

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

**International Subject prerequisites**

- Maths B
- English
- Chemistry

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

**Minimum english requirements**

Students must meet the English proficiency requirements.

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<tr>
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<th>Writing</th>
<th>Reading</th>
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<th>Overall</th>
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<tbody>
<tr>
<td></td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Why Choose This Course**

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

**Professional Recognition**

Graduates are eligible for membership of the Australian Institute of Physics (AIP).

**Your Course**

**Year 1**

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

**Year 2**

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

**Year 3**

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

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---

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=ST50&courseID=15998. CRICOS No.00213J

---

a university for the real world
science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extracurricular networking events and an industry career.

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Sample Structure

Semesters

Year 1 Semester 1
- SCB110 Science Concepts and Global Systems
- SCB111 Chemistry 1
- SCB112 Cellular Basis of Life
- Plus ONE from the following four units:
  - MAB101 Statistical Data Analysis 1
  - MAB105 Preparatory Mathematics
  - MAB120 Algebra and Calculus
  - MAB121 Calculus and Differential Equations

NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101
Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105
Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121
Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2

Year 2 Semester 1
- MAB122 Algebra and Analytic Geometry
- PQB250 Mechanics and Electromagnetism
- PQB251 Waves and Optics
- Plus ONE from the following two units
- MAB121 Calculus and Differential Equations
- MAB220 Computational Mathematics 1

Year 2 Semester 2
- MAB311 Advanced Calculus
- PQB350 Thermodynamics of Solids and Gases
- Plus TWO units from the relevant options List which may include one unit from outside the Faculty

Relevant Unit Options List for Year 2, Semester 1:
- PCB593 Digital Image Processing
- PQB360 Global Energy Balance and Climate Change

Elective

Year 3 Semester 1
- BSB115 Management
- PQB550 Quantum and Condensed Matter Physics
- PQB551 Physical Analytical Techniques
- STB551 Engaging with the Innovation Industry

Year 3 Semester 2
- BSB126 Marketing
- MGB223 Entrepreneurship and Innovation
- PQB650 Advanced Theoretical Physics
- PQB651 Experimental Physics

Year 4 Semester 1
- AMB240 Marketing Planning and Management
- LWS007 Introduction To Intellectual Property Law
- MGB324 Managing Business Growth

Year 4 Semester 2
- STB709-1 Innovation and Commercialisation Project
- BSB311 Innovation Commercialisation Strategies
<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MGB225</td>
<td>Intercultural Communication and Negotiation Skills</td>
</tr>
<tr>
<td>STB709-2</td>
<td>Innovation and Commercialisation Project</td>
</tr>
<tr>
<td>STB709-3</td>
<td>Innovation and Commercialisation Project</td>
</tr>
</tbody>
</table>
Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas

- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA) of English and one of the following: Maths A, Maths B or Maths C.

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<table>
<thead>
<tr>
<th>Component</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaking</td>
<td>6.0</td>
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<tr>
<td>Writing</td>
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<tr>
<td>Reading</td>
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<tr>
<td>Listening</td>
<td>6.0</td>
</tr>
<tr>
<td>Overall</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Overview
The course is concerned with the management of the overall process of construction projects and provides detailed understanding of project development from conception, through planning and construction to commissioning and maintenance. It develops skills in how to manage people, materials, equipment and plant while focusing on issues such as cost, time, quality, safety and environment. It educates students to become effective construction managers with comprehensive technological knowledge, management principles and communication skills.

Minors
For accreditation purposes you are required to undertake specified minors which will include employment practice. Please refer to your course rules before making your selection.

CONSTRUCTION MANAGEMENT Minor Options

- All students must take the Construction Management Applications Minor, which is an AIB accreditation requirement.
- Your second minor may be taken from anywhere in QUT but must be from outside UD40.
interdisciplinary skills via your minor units and specialist skills in advanced construction management and research methods and report writing.

**Minors**

For accreditation purposes you are required to undertake specified minors which will include employment practice. Please refer to your course rules before making your selection.

Construction management minor options
- All students must take the Construction Management Applications Minor, which is an AIB accreditation requirement.
- Your second minor may be taken from anywhere in QUT but must be from outside UD40. The Project Collaboration Minor is highly recommended for students in Construction Management.

**International Course structure**

**Work Integrated Learning unit**

In your final year students are required to undertake 100 days approved industrial experience in the construction or allied field.

**Your course**

**Year 1**

You start your studies with foundation units including residential construction and engineering, basic professional learning (including an introduction to research writing), sustainability, land stewardship, urban development economics and building measurement.

**Year 2**

You build on your knowledge of construction management by studying low-rise commercial construction and engineering, structural engineering, building measurement and estimating, construction-related law, building services engineering, basic business skills and minor study units.

**Year 3**

You increase your knowledge by studying high-rise construction and advanced structural and formwork design. You extend your management learning in business skills, contract administration and statutory construction law and further engage in your chosen minor study units as well as building your research capabilities.

**Year 4**

Your final year draws together previous learning and integrates it with more advanced concepts of strategic management, program and planning management, and human resources planning, preparing you for entry to the construction industry at managerial level. You have the opportunity to gain interdisciplinary skills via your minor units and specialist skills in advanced construction management and research methods and report writing.

**Minors**

For accreditation purposes you are required to undertake specified minors which will include employment practice. Please refer to your course rules before making your selection.

Construction management minor options
- All students must take the Construction Management Applications Minor, which is an AIB accreditation requirement.
- Your second minor may be taken from anywhere in QUT but must be from outside UD40. The Project Collaboration Minor is highly recommended for students in Construction Management.

**Sample Structure**

**Semesters**

- **Year 1 - Semester 1**
- **Year 1 - Semester 2**
- **Year 2 - Semester 1**
- **Year 2 - Semester 2**
- **Year 3 - Semester 1**
- **Year 3 - Semester 2**
- **Year 4 - Semester 1**
- **Year 4 - Semester 2**

**Code** | **Title**
--- | ---
**Year 1 - Semester 1**
UDB100 | Urban Development and Sustainability
UDB101 | Stewardship of Land
UDB110 | Residential Construction and Engineering
UDB111 | Engineering Construction Materials
**Year 1 - Semester 2**
UDB200 | Project Planning in Urban Development
UDB104 | Urban Development Economics
UDB112 | Professional Studies 1
UDB113 | Measurement 1
**Year 2 - Semester 1**
UDB210 | Commercial Construction and Engineering
UDB211 | Introductory Structural Engineering
UDB212 | Measurement 2
UDB213 | Construction Estimating

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=UD400&courseID=16270. CRICOS No.00213J
Bachelor of Urban Development (Property Economics)

**Handbook**

<table>
<thead>
<tr>
<th><strong>Year</strong></th>
<th>2012</th>
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<tbody>
<tr>
<td><strong>QUT code</strong></td>
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<tr>
<td><strong>CRICOS</strong></td>
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<td><strong>Duration (full-time)</strong></td>
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<td><strong>OP Guarantee</strong></td>
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<tr>
<td><strong>Campus</strong></td>
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<td><strong>Domestic fee (indicative)</strong></td>
<td>2012: CSP $4,025 per Semester</td>
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<tr>
<td><strong>International fee (indicative)</strong></td>
<td>2012: $12,200 per Semester</td>
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<td><strong>Total credit points</strong></td>
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<td><strong>Credit points full-time sem.</strong></td>
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<td>February</td>
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<tr>
<td><strong>Deferment</strong></td>
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<tr>
<td><strong>Course Coordinator</strong></td>
<td>Dr John Hayes</td>
</tr>
<tr>
<td><strong>Discipline Coordinator</strong></td>
<td>Dr Connie Susilawati</td>
</tr>
</tbody>
</table>

**Domestic Assumed knowledge**
Before you start this course we assume you have sound knowledge in these areas:

- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA) of English and one of the following: Maths A, Maths B or Maths C.

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<tr>
<td>overall</td>
</tr>
</tbody>
</table>

**Overview**
This course is concerned with all aspects of property - investment, asset management, development, valuation and research - with a focus on finance and on the commercial property market sector.

**Special Course Requirements**
You are required to obtain a minimum of 30 days approved professional work experience.

**Professional Recognition**
The 4 year degree has professional recognition from the Australian Property Institute, the Valuers' Registration Board of Queensland, and from the Royal Institution of Chartered Surveyors.

**International Student Entry**
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

**Second Majors and Minors**
In your final two years you will have the opportunity to undertake a major (8 units) or 2 minors (4 units each) from other areas of interest. Please refer to your course rules before making your selection.

**PROPERTY ECONOMICS Second Major and Minor Options**

**Second Major:**
A second major from anywhere in QUT

**Minors:**
Two minors from anywhere in QUT. Remember if you take two Minors one Minor must be from outside of your course.

**Further Information**
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

**Domestic Course structure**

**Work Integrated Learning unit**
Students are required to obtain a minimum of 30 days approved professional work experience.

**Your course**

**Year 1**
You are introduced to land management, sustainability, construction, economics, law and fundamental property valuation practice. You will have a preliminary understanding of the knowledge required of a property professional including factors that influence the value of property. You develop verbal and written communication skills and work collaboratively on projects with other students.

**Year 2**
You further develop skills in applying analytical problem solving in property valuation, investment analysis and property development. You continue to build your knowledge and skills in planning and urban development, urban economics, and law associated with interests in land and property transactions. Focus is maintained on developing written and verbal communication to a professional standard. You develop an understanding of your future role as a property professional.

**Year 3**
You collaborate with other students in related disciplines to determine the feasibility of a hypothetical development project. You explore property finance and property and asset management and hone research expertise. Guest lectures from leading industry practitioners and industry-focused workshops are a feature. You also embark on a specialist focus through elective major/minor units in your
chosen specialisation.

**Year 4**
You continue to specialise in your chosen area of study through elective major/minor units. You develop skills in property taxation, property marketing and real estate practice. These property skills are supplemented by business study which provides you with a useful understanding of commercial enterprise. The year culminates with industry-focused learning experiences including a work integrated learning unit to ensure you are workforce ready.

**Second major and minors**
In your final two years you will have the opportunity to undertake a major (8 units) or 2 minors (4 units each) from other areas of interest. Please refer to your course rules before making your selection.

Property economics second major and minor options

Second Major:
- A second major from anywhere in QUT

Minors:
- Two minors from anywhere in QUT. Remember if you take two Minors one Minor must be from outside of your course.

**International Course structure**

**Work Integrated Learning unit**
Students are required to obtain a minimum of 30 days approved professional work experience.

**Your course**

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**Sample Structure**

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- Year 1 - Semester 1
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- Year 2 - Semester 1
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- Year 3 - Semester 1
- Year 3 - Semester 2
- Year 4 - Semester 1
- Year 4 - Semester 2

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<td>Year 4 - Semester 1</td>
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<tr>
<td>UDB340</td>
<td>Agency Practice and Marketing</td>
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<tr>
<td>UDB342</td>
<td>Real Estate Accounting and Taxation</td>
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<td>Second Major/Minor unit</td>
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<tr>
<td>BEB701</td>
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<tr>
<td>UDB202</td>
<td>Business Skills</td>
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<td>Second Major/Minor unit</td>
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</table>
**Bachelor of Urban Development (Quantity Surveying)**

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
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<tbody>
<tr>
<td>QUT code</td>
<td>UD40</td>
</tr>
<tr>
<td>CRICOS</td>
<td>056387B</td>
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<tr>
<td>Duration (full-time)</td>
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<tr>
<td>OP</td>
<td>9</td>
</tr>
<tr>
<td>Rank</td>
<td>83</td>
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<td>OP Guarantee</td>
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<tr>
<td>Campus</td>
<td>Gardens Point</td>
</tr>
<tr>
<td>Domestic fee (indicative)</td>
<td>2012: CSP $4,025 per Semester</td>
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<tr>
<td>International fee (indicative)</td>
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<td>Start months</td>
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<tr>
<td>Int. Start Months</td>
<td>February, July</td>
</tr>
<tr>
<td>Deferment</td>
<td>You can defer your offer and postpone the start of your course for one year</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Dr John Hayes</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Mr Jason Gray</td>
</tr>
</tbody>
</table>

**Domestic Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas:
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA) of English and one of the following: Maths A, Maths B or Maths C.

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>writing</td>
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<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
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</tr>
<tr>
<td>overall</td>
<td>6.0</td>
</tr>
</tbody>
</table>

**Overview**

The course prepares students to work as quantity surveyors or building economists. The course covers building management, cost planning and control, building development techniques, building research, computer software application, measurement of construction, and legal issues. **Applicants will be initially enrolled in the Bachelor of Urban Development (Construction Management) but will be directed to take suitable units to graduate with a Quantity Surveying primary major.**

**Special Course Requirements**

You are required to gain a minimum of 80 days of approved employment in the final year of the course.

**Professional Recognition**

This course is fully accredited by the Australian Institute of Quantity Surveyors, The Royal Institution of Chartered Surveyors (Honours version only), and the Board of Quantity Surveyors Malaysia (with Property Economics second major).

**Second Majors and Minors**

You will have the opportunity to undertake a second major (8 units) or 2 minors (4 units each) to enhance and broaden your knowledge in a related field or area of interest.

Please refer to your course rules before making your selection.

**QUANTITY SURVEYING Second Major and Minor Options**

**Second Major:**
*Choose one second major from the following options:*
- Property Economics Development
- Property Economics Investment
- Property Economics Valuation
- Urban and Regional Planning
- Architectural Studies

**OR**

**Minors:**
Two minors from anywhere in QUT. Remember if you take two Minors, one Minor must be from outside the UD40 course.

**Further Information**

Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

**Domestic Course structure**

**Work Integrated Learning unit**

Students are required to gain a minimum of 80 days of approved employment in the final year of the course.

**Your course**

**Year 1**

Complete a common first year with construction management students. You start your studies with foundation units including residential construction and engineering, basic professional learning (including an introduction to research writing), sustainability, land stewardship, urban development economics and building measurement.

**Year 2**

Apply your construction body of knowledge introduced in first year, and begin to develop the range of graduate capabilities through an introduction to more complex construction techniques, methodologies and management issues relating to your degree in quantity surveying. Your analytical and technical skills continue to be honed through commercial construction and the environment. The law and business skills you gain in the second year will also help further develop lifelong learning skills.
Bachelor of Urban Development (Quantity Surveying)

Year 3
Increase your knowledge and skills in construction and quantity surveying. You are introduced to in-depth knowledge of the economic, managerial, legal and technical aspects of construction activity, such as high-rise construction, cost planning and control. Undertake second majors/minors to extend construction and quantity surveying knowledge. These allow you to broaden your education by undertaking units from other faculties within the University, subject to accreditation requirements.

Second major and minors
You will have the opportunity to undertake a second major (8 units) or 2 minors (4 units each) to enhance and broaden your knowledge in a related field or area of interest.

Please refer to your course rules before making your selection.

International Course structure
Work Integrated Learning unit
Students are required to gain a minimum of 80 days of approved employment in the final year of the course.

Your course
Year 1
Complete a common first year with construction management students. You start your studies with foundation units including residential construction and engineering, basic professional learning (including an introduction to research writing), sustainability, land stewardship, urban development economics and building measurement.

Year 2
Apply your construction body of knowledge introduced in first year, and begin to develop the range of graduate capabilities through an introduction to more complex construction techniques, methodologies and management issues relating to your degree in quantity surveying. Your analytical and technical skills continue to be honed through commercial construction and the environment. The law and business skills you gain in the second year will also help further develop lifelong learning skills.

Year 3
Increase your knowledge and skills in construction and quantity surveying. You are introduced to in-depth knowledge of the economic, managerial, legal and technical aspects of construction activity, such as high-rise construction, cost planning and control. Undertake second majors/minors to extend construction and quantity surveying knowledge. These allow you to broaden your education by undertaking units from other faculties within the University, subject to accreditation requirements.

Year 4
In your final year you complete your selected second major/minors, involving a major project which brings together all your previously mastered skills, and advances your communication skills in dissertation writing and seminar presentation. You also complete work integrated learning in the quantity surveying discipline, ensuring you are workforce ready.

Second Major:
Choose one second major from the following options:
- Property Economics Development
- Property Economics Investment
- Property Economics Valuation
- Urban and Regional Planning
- Architectural Studies

OR

Minors:
Choose two minors from the following options. Remember, if you take two Minors, one Minor must be from outside your course:
- Property Economics Development
- Property Economics Investment
- Property Economics Valuation
- Urban and Regional Planning
- Architectural Studies
- Work Integrated Learning Minor
- Sustainability Minor
- International Minor
- Indigenous Studies Minor
- Research Minor

A minor from anywhere in QUT.

Sample Structure
Seminesters

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>UDB100</td>
<td>Urban Development and Sustainability</td>
</tr>
<tr>
<td>UDB101</td>
<td>Stewardship of Land</td>
</tr>
<tr>
<td>UDB110</td>
<td>Residential Construction and Engineering</td>
</tr>
<tr>
<td>UDB111</td>
<td>Engineering Construction Materials</td>
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</table>
## Bachelor of Urban Development (Quantity Surveying)

### Year 1 - Semester 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>UDB200</td>
<td>Project Planning in Urban Development</td>
</tr>
<tr>
<td>UDB104</td>
<td>Urban Development Economics</td>
</tr>
<tr>
<td>UDB112</td>
<td>Professional Studies 1</td>
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<td>UDB113</td>
<td>Measurement 1</td>
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### Year 2 - Semester 1

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<tr>
<th>Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>UDB210</td>
<td>Commercial Construction and Engineering</td>
</tr>
<tr>
<td>UDB212</td>
<td>Measurement 2</td>
</tr>
<tr>
<td>UDB213</td>
<td>Construction Estimating</td>
</tr>
<tr>
<td>UDB216</td>
<td>The Environment and the Quantity Surveyor</td>
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### Year 2 - Semester 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
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<td>UDB102</td>
<td>Applied Law</td>
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<tr>
<td>UDB202</td>
<td>Business Skills</td>
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<td>UDB215</td>
<td>Building Services Engineering</td>
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### Year 3 - Semester 1

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<tr>
<td>UDB310</td>
<td>Highrise Construction and Engineering</td>
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<tr>
<td>UDB312</td>
<td>Contract Administration</td>
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<td>UDB315</td>
<td>Measurement 3</td>
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### Year 3 - Semester 2

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<td>Statutory Construction Law</td>
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<td>UDB316</td>
<td>Cost Planning and Control</td>
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### Year 4 - Semester 1

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<th>Code</th>
<th>Course Title</th>
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<tr>
<td>BEB701</td>
<td>Work Integrated Learning 1</td>
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<td>UDB301</td>
<td>Research Methods</td>
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### Year 4 - Semester 2

<table>
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<tr>
<th>Code</th>
<th>Course Title</th>
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<tr>
<td>BEB801</td>
<td>Project 1</td>
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<tr>
<td>UDB302</td>
<td>Development Process</td>
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This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=UD40&courseID=16230. CRICOS No.00213J
Bachelor of Urban Development (Spatial Science)

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

Minimum English requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
<tbody>
<tr>
<td>speaking 6.0</td>
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<tr>
<td>writing 6.0</td>
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<tr>
<td>reading 6.0</td>
</tr>
<tr>
<td>listening 6.0</td>
</tr>
<tr>
<td>overall 6.0</td>
</tr>
</tbody>
</table>

Overview
This degree is a broad-based course. The first year is a foundation year designed to prepare students to deliver practical solutions to problems involving spatial information and decision-making. Students study foundation units such as mathematics, professional studies, sustainability as well as geospatial positioning in their first year. In the following years, the areas covered are boundary and control surveying, topographic mapping, photogrammetry, mine and hydrographic surveying, land development design and geographic information systems.

Professional Recognition
The course is recognised by Queensland Surveyors Board and the Surveying and Spatial Science Institute of Australia (SSSI).

Special Course Requirements
You will be required to attend compulsory field practicals off-campus in the Moreton Region and have access to an advanced scientific calculator for use during the course. To graduate you are required to have at least 90 days of approved industrial experience/practice in a spatial science/surveying environment.

Minors
For professional recognition you will undertake two minors (a minor is four units or 48 credit points in the same discipline) the first is a Science minor which includes Maths and the second an Applications minor which consists of a Work Integrated Learning unit, a project unit and two specialised spatial science units.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

Domestic Course structure
Work Integrated Learning unit
To graduate, students are required to undertake at least 90 days of approved industrial experience/practice in a spatial science/surveying environment.

Your course

Year 1
You undertake foundation units where you study broad aspects of the built environment, stewardship of land and foundation mathematics to assist with an understanding of geospatial information and measurement science/surveying. A number of experiential field particulars support the study of introductory surveying techniques.

Year 2
You undertake further measurement-related study applied to cadastral surveying and computations. Digital mapping, GIS and remote sensing studies, that broaden measurement and analysis aspects, are introduced. Land development, measurement science and mapping/GIS themes are structured as a sequential learning process.

Year 3
Multidisciplinary land development units are undertaken to reflect real-world development projects. Land information management study supports the ‘big-picture’ view of sustainable developments while the geodesy theory unit covers high-precision state-of-the-art technology measurement applications. Project-based learning through spatial analysis practice is encouraged in this third year of study.

Year 4
Your final year prepares you for entry into the spatial information industry. Study units provide opportunities to gain interdisciplinary skills and specialist
spatial measurement and presentation skills. Project and work-integrated learning units allow for industry work experiences and exposure to the diversity of workplace cultures.

Minors
For professional recognition you will undertake two minors (a minor is four units or 48 credit points in the same discipline) the first is a Science minor which includes Maths and the second an Applications minor which consists of a Work Integrated Learning unit, a project unit and two specialised spatial science units.

International Course structure
Work Integrated Learning unit
To graduate, students are required to undertake at least 90 days of approved industrial experience/practice in a spatial science/surveying environment.

Your course
Year 1
You undertake foundation units where you study broad aspects of the built environment, stewardship of land and foundation mathematics to assist with an understanding of geospatial information and measurement science/surveying. A number of experiential field practicals support the study of introductory surveying techniques.

Year 2
You undertake further measurement-related study applied to cadastral surveying and computations. Digital mapping, GIS and remote sensing studies, that broaden measurement and analysis aspects, are introduced. Land development, measurement science and mapping/GIS themes are structured as a sequential learning process.

Year 3
Multidisciplinary land development units are undertaken to reflect real-world development projects. Land information management study supports the ‘big-picture’ view of sustainable developments while the geodesy theory unit covers high-precision state-of-the-art technology measurement applications. Project-based learning through spatial analysis practice is encouraged in this third year of study.

Year 4
Your final year prepares you for entry into the spatial information industry. Study units provide opportunities to gain interdisciplinary skills and specialist
Bachelor of Urban Development (Urban and Regional Planning)

Year 2012
QUT code UD40
CRICOS 056387B
Duration (full-time) 4 years
OP 11
Rank 78
OP Guarantee Yes
Campus Gardens Point
Domestic fee (indicative) 2012: CSP $4,025 per Semester
International fee (indicative) 2012: $12,200 per Semester
Total credit points 384
Credit points full-time sem. 48
Dom. Start Months February
Deferment You can defer your offer and postpone the start of your course for one year
Course Coordinator Dr John Hayes
Discipline Coordinator Dr Severine Mayere

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
• English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA).

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<table>
<thead>
<tr>
<th>Skill</th>
<th>Score</th>
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<tr>
<td>Writing</td>
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<tr>
<td>Reading</td>
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<td>Listening</td>
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<tr>
<td>Overall</td>
<td>6.0</td>
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</tbody>
</table>

Overview
This course aims to educate students to become innovative leaders in professional planning, with the capacity and will to create a better world. Graduates will apply perceptive sensibilities and skills to create sustainable natural and human environments. The QUT course emphasises creative design and inclusive community planning. You will have the opportunity to work on live projects with local councils and community groups.

Professional Recognition
This course has received accreditation from the Planning Institute of Australia.

Second Major and Minors
You will have the opportunity to undertake two minors (four units each) to broaden your appreciation of fields related to urban and regional planning. One of these is the Applications Minor, that fulfills important Planning Institute of Australia accreditation requirements. The other minor you are able to choose for yourself; for example: landscape architecture, urban design, surveying, property economics, law or business management. Students wishing to undertake a second major rather than the accredited course model are advised to contact the Study Area Coordinator.

Please refer to your course rules before making your selection.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

Domestic Course structure
Your course
Year 1
Your first year as a planning student will give you a strong foundation in design skills, experience in working in teams on planning projects, and an understanding of the importance of the social, economic and environmental contexts of planning activity.

Year 2
In your second year as a planning student, you will develop your practical skills through working on site-related projects and development assessment. The second year of the degree also explores the philosophical and theoretical basis of planning.

Year 3
In the third year of your degree, you will focus on the application of design skills on a broader scale through urban design principles. You will also be prepared for the public role of planners through negotiation and conflict resolution, and investigate the importance of environmental planning.

Year 4
In the final year of your degree, you will integrate the skills and capacities developed throughout the course through a major research project, a challenging exploration of planning theory and ethics,
Bachelor of Urban Development (Urban and Regional Planning)

and real-world planning projects that move from the community through to the regional level.

**Second major and minors**
You will have the opportunity to undertake a second major (8 units) or 2 minors (4 units each) to enhance and broaden your knowledge in a related field or area of interest.

Please refer to your course rules before making your selection.

Urban and regional planning second major and minor options

**Second Major:**
Choose one second major from the following options:
- Architectural Studies
- Landscape Architecture
- Spatial Science
- Property Economics Development
- Property Economics Investment
- Property Economics Valuation
- Construction Management
- Construction Management
- Residential Construction

OR

**Minors:**
Choose two minors from the following options. Remember, if you take two Minors, one Minor must be from outside your course:
- Urban and Regional Planning Applications Minor (accreditation requirement)
- Landscape Architecture
- Spatial Science
- Architectural Studies
- Property Economics Development
- Property Economics Investment
- Property Economics Valuation
- Sustainability Minor
- International Minor
- Indigenous Studies Minor
- Research Minor
- Project Collaboration Minor
- Collaborative Digital Design Minor

A minor from anywhere in QUT.

**International Course structure**

**Your course**

*Year 1*
Your first year as a planning student will give you a strong foundation in design skills, experience in working in teams on planning projects, and an understanding of the importance of the social, economic and environmental contexts of planning activity.

*Year 2*
In your second year as a planning student, you will develop your practical skills through working on site-related projects and development assessment. The second year of the degree also explores the philosophical and theoretical basis of planning.

*Year 3*
In the third year of your degree, you will focus on the application of design skills on a broader scale through urban design principles. You will also be prepared for the public role of planners through negotiation and conflict resolution, and investigate the importance of environmental planning.

*Year 4*
In the final year of your degree, you will integrate the skills and capacities developed throughout the course through a major research project, a challenging exploration of planning theory and ethics, and real-world planning projects that move from the community through to the regional level.

**Second major and minors**
You will have the opportunity to undertake a second major (8 units) or 2 minors (4 units each) to enhance and broaden your knowledge in a related field or area of interest.

Please refer to your course rules before making your selection.

Urban and regional planning second major and minor options

**Second Major:**
Choose one second major from the following options:
- Architectural Studies
- Landscape Architecture
- Spatial Science
- Property Economics Development
- Property Economics Investment
- Property Economics Valuation
- Construction Management
- Construction Management
- Residential Construction

OR

**Minors:**
Choose two minors from the following options. Remember, if you take two Minors, one Minor must be from outside your course:
- Urban and Regional Planning Applications Minor (accreditation requirement)
- Landscape Architecture
- Spatial Science
- Architectural Studies
- Property Economics Development
- Property Economics Investment
- Property Economics Valuation
- Construction Management
- Construction Management
- Residential Construction

A minor from anywhere in QUT.

**Sample Structure**

**Seminsters**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>UDB100</td>
<td>Urban Development and Sustainability</td>
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<tr>
<td>UDB101</td>
<td>Stewardship of Land</td>
</tr>
<tr>
<td>UDB161</td>
<td>Introduction to Planning and Design</td>
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<tr>
<td>UDB162</td>
<td>History of Built Environment</td>
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<tr>
<td>UDB104</td>
<td>Urban Development Economics</td>
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<td>UDB163</td>
<td>Land Use Planning</td>
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<td>UDB164</td>
<td>Population and Urban Studies</td>
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<td>UDB200</td>
<td>Project Planning in Urban Development</td>
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<tr>
<td>UDB265</td>
<td>Site Planning</td>
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<td>UDB266</td>
<td>Planning Processes and Consultations</td>
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<td>UDB281</td>
<td>Geographic Information Systems</td>
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<td>UDB202</td>
<td>Business Skills</td>
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<td>UDB267</td>
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<td>UDB368</td>
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<tr>
<td>UDB369</td>
<td>Negotiation and Conflict Resolution</td>
</tr>
<tr>
<td>UDB381</td>
<td>Geospatial Mapping</td>
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This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=UD40&courseID=16330. CRICOS No.00213](http://www.student.qut.edu.au/studying/courses/course?courseCode=UD40&courseID=16330. CRICOS No.00213)
**Bachelor of Urban Development (Urban and Regional Planning)**

<table>
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<tr>
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<tr>
<td>UDB302</td>
<td>Development Process</td>
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<tr>
<td>UDB370</td>
<td>Environmental Planning and Management</td>
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</table>

**Minor unit**

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<tbody>
<tr>
<td>BEB701</td>
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<tr>
<td>UDB301</td>
<td>Research Methods</td>
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<td>UDB471</td>
<td>Urban Planning Practice</td>
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<tr>
<td>UDB473</td>
<td>Planning Theory and Ethics</td>
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<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB802</td>
<td>Project 2</td>
<td></td>
</tr>
<tr>
<td>UDB472</td>
<td>Community Planning</td>
<td></td>
</tr>
<tr>
<td>UDB474</td>
<td>Regional Planning Practice</td>
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<tr>
<td>UDB475</td>
<td>Regional and Metropolitan Policy</td>
<td></td>
</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=UD40&courseID=16330](http://www.student.qut.edu.au/studying/courses/course?courseCode=UD40&courseID=16330). CRICOS No.00213J
Bachelor of Engineering (Electrical)/ Bachelor of Mathematics

<table>
<thead>
<tr>
<th>Year</th>
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<tbody>
<tr>
<td>QUT code</td>
<td>IF21</td>
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<tr>
<td>CRICOS</td>
<td>020329J</td>
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<tr>
<td>Duration (full-time)</td>
<td>5 years</td>
</tr>
<tr>
<td>OP</td>
<td>10</td>
</tr>
<tr>
<td>Rank</td>
<td>81</td>
</tr>
<tr>
<td>OP Guarantee</td>
<td>Yes</td>
</tr>
<tr>
<td>Campus</td>
<td>Gardens Point</td>
</tr>
<tr>
<td>Domestic fee (indicative)</td>
<td>2012: CSP $3,143 per Semester</td>
</tr>
<tr>
<td>International fee (indicative)</td>
<td>2012: $12200 per Semester</td>
</tr>
<tr>
<td>Total credit points</td>
<td>480</td>
</tr>
<tr>
<td>Credit points full-time sem.</td>
<td>48</td>
</tr>
<tr>
<td>Start months</td>
<td>February</td>
</tr>
<tr>
<td>Int. Start Months</td>
<td>February</td>
</tr>
<tr>
<td>Deferment</td>
<td>You can defer your offer and postpone the start of your course for one year</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Dr R.Mahalinga-Iyer (Engineering); Associate Professor Dann Mallet (Mathematics)</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Dr Bouchra Senadji (Engineering); Professor Helen MacGillivray (Mathematics)</td>
</tr>
</tbody>
</table>

**Domestic Entry requirements**

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator.

**Domestic Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas

- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)). Recommended study: Chemistry, Maths C and Physics.

**International Entry requirements**

International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator.

**International Subject prerequisites**

- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)). Recommended study: Chemistry, Maths C and Physics.

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Professional Recognition**

This course meets the requirements for membership of Engineers Australia (EA). EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world. The course also meets the coursework requirements for accredited graduate membership of the Australian Mathematical Society. You may also become a member of the Statistical Society of Australia.

**Financial Support**

You should consider applying for an industry-sponsored mathematics bursary or an engineering scholarship to help you financially throughout your studies. For further information visit scholarships.

**International Student Entry**

International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

**Further Information**

For further information about this course, please contact the following:

**Engineering Coordinator**

Dr Bouchra Senadji
Phone: 3138 8822
Email: sef.enquiry@qut.edu.au

**Mathematics Coordinator**

Professor Helen MacGillivray
Phone: +61 7 3138 2337
Email: h.macgillivray@qut.edu.au

**Domestic Course structure**

*Work Integrated Learning unit*

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator.

**International Course structure**

*Work Integrated Learning unit*

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator.
Sample Structure

Seminars

- **Year 1, Semester 1**
- **Year 1, Semester 2**
- **Year 2, Semester 1**
- **Year 2, Semester 2**
- **Year 3, Semester 1**
- **Year 3, Semester 2**
- **Year 4, Semester 1**
- **Year 4, Semester 2**
- **Year 5, Semester 1**
- **Year 5, Semester 2**
- **Electrical Engineering Selectives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENB244</td>
<td>Microprocessors and Digital Systems</td>
</tr>
<tr>
<td>ENB245</td>
<td>Introduction To Design and Professional Practice</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>ENB241</td>
<td>Software Systems Design</td>
</tr>
<tr>
<td>OR</td>
<td>Electrical Engineering Selective</td>
</tr>
<tr>
<td>ENB301</td>
<td>Instrumentation and Control</td>
</tr>
<tr>
<td>ENB340</td>
<td>Power Systems and Machines</td>
</tr>
<tr>
<td>ENB342</td>
<td>Signals, Systems and Transforms</td>
</tr>
</tbody>
</table>

**Year 4, Semester 1**

- ENB244 Microprocessors and Digital Systems
- ENB245 Introduction To Design and Professional Practice

**Year 4, Semester 2**

- ENB344 Industrial Electronics
- ENB345 Advanced Design and Professional Practice
- MAB414 Applied Statistics 2
- Mathematics Elective (Level 3)

**Year 5, Semester 1**

- BEB801 Project 1
- BEB346 Digital Communications
- Mathematics Elective (Level 3)
- Mathematics Elective (Level 3)

**Year 5, Semester 2**

- BEB701 Work Integrated Learning 1
- BEB802 Project 2
- Electrical Engineering Selective
- Mathematics Elective (Level 3)

**Electrical Engineering Selectives**

- ENB339 Introduction to Robotics
- ENB448 Signal Processing and Filtering
- ENB452 Advanced Power Systems Analysis
- ENB453 Power Equipment and Utilisation
- ENB456 Energy
- ENB457 Controls, Systems and Applications
- ENB458 Modern Control Systems

Course Notes

For students with four semesters of both Senior Mathematics B and Senior Mathematics C (or equivalent) with an exit assessment of at least Sound Achievement in both subjects.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ENB100</td>
<td>Engineering and Sustainability</td>
</tr>
<tr>
<td>ENB130</td>
<td>Mechanical and Thermal Energy</td>
</tr>
<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
</tr>
<tr>
<td>MAB122</td>
<td>Algebra and Analytic Geometry</td>
</tr>
</tbody>
</table>

**Year 1, Semester 2**

- ENB200 Introducing Engineering Systems
- ENB120 Electrical Energy and Measurements
- MAB101 Statistical Data Analysis 1
- MAB220 Computational Mathematics 1

**Year 2, Semester 1**

- ENB110 Engineering Statics and Materials
- ENB250 Electrical Circuits
- MAB210 Statistical Modelling 1
- MAB311 Advanced Calculus

**Year 2, Semester 2**

- ENB413 Differential Equations
- Mathematics Elective (Level 2)
- Mathematics Elective (Level 2)

**Year 3, Semester 1**

- ENB240 Introduction To Electronics
- ENB246 Engineering Problem Solving
- MAB312 Linear Algebra
- MAB314 Statistical Modelling 2

**Year 3, Semester 2**

- ENB242 Introduction To Telecommunications
- ENB243 Linear Circuits and Systems

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IF21&courseID=15670. CRICOS No.00213J
Bachelor of Engineering (Electrical)/Bachelor of Business

Year: 2012
QUT code: IF28
CRICOS: 027278C
Duration (full-time): 5 years
Campus: Gardens Point
Total credit points: 480
Credit points full-time sem.: 48 (average)
Start months: August
This course is only taught to continuing students only.

International Subject prerequisites
• English

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
• English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA). Accountancy, Finance, Economics and Marketing majors also requires 4 SA in Maths A, B or C.

International Subject prerequisites
• English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Accountancy, Finance, Economics and Marketing majors also requires 4 SA in Maths A, B or C.

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<table>
<thead>
<tr>
<th></th>
<th>Speaking</th>
<th>Writing</th>
<th>Reading</th>
<th>Listening</th>
<th>Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaking</td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Discontinuation
From Semester 1, 2007, this course has been renamed and recoded to IX28 Bachelor of Business/Bachelor of Engineering. Currently enrolled students who wish to remain in, and graduate from the existing program will be permitted to do so up to the end of 2009. From Semester 1, 2010, all students will be enrolled in the new program.
Bachelor of Business / Bachelor of Information Technology

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Discontinuation
Students should note that from Semester 1, 2007 this course has been renamed and recoded to IX33 Bachelor of Business/Bachelor of Information Technology. Therefore, there will be no further intake into this course, however, students who are currently enrolled, or have already been made an offer into this current course for 2007, are able to remain enrolled in it.

For information on the new course, please refer to IX33 Bachelor of Business/Bachelor of Information Technology.
Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<table>
<thead>
<tr>
<th>Skill</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
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<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
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</table>

DISCONTINUATION
As of Semester 1 2009, this course has been discontinued and replaced by IX54 Bachelor of Engineering (Electrical)/Bachelor of Information Technology.

Further Information
For further information about this course, please contact the following:

**Engineering Coordinator**
Phone +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

**Information Technology Coordinator**
Phone +61 7 3138 8822
Email: sef.enquiry@qut.edu.au
<table>
<thead>
<tr>
<th>Year</th>
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</thead>
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<tr>
<td>QUT code</td>
<td>IF86</td>
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<td>OP</td>
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<tr>
<td>Rank</td>
<td>72</td>
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<tr>
<td>OP Guarantee</td>
<td>Yes</td>
</tr>
<tr>
<td>Campus</td>
<td>Gardens Point and Kelvin Grove</td>
</tr>
<tr>
<td>Total credit points</td>
<td>384 (192 cp in the Bachelor of Arts and 192 cp in the Bachelor of Applied Science)</td>
</tr>
<tr>
<td>Credit points full-time sem.</td>
<td>48</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Contact email: <a href="mailto:sef.enquiry@qut.edu.au">sef.enquiry@qut.edu.au</a>; phone 3138 8822.</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td></td>
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</tbody>
</table>

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
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<th>IELTS (International English Language Testing System)</th>
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<tbody>
<tr>
<td>speaking 6.0</td>
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<tr>
<td>writing 6.0</td>
</tr>
<tr>
<td>reading 6.0</td>
</tr>
<tr>
<td>listening 6.0</td>
</tr>
<tr>
<td>overall 6.5</td>
</tr>
</tbody>
</table>

**Course discontinued**

This course has been discontinued and is open to continuing students only.

**Course Design**

A feature of the course design is the flexibility and choice it offers. Students can tailor the double degree to their career interests by combining any one of the 10 majors that are available in the Bachelor of Applied Science (SC01) degree with a specialisation chosen from a wide range of offerings in the humanities.

The program is integrated so that students will study both science and arts units in each semester.

**Professional Recognition**

Relevant professional bodies for the Bachelor of Applied Science (SC01) are listed under the separate entry for the course. Eligibility for membership depends on the majors undertaken.

**Multidisciplinary Majors**

In the Arts component students will be required to complete one multidisciplinary major from the following: International and Global Studies; Community Studies; Society and Change; Ethics and Human Rights; Australian Studies.

**Sample Structure**

**Semesters**

- Year 1, Semester 1
- Year 1, Semester 2
- Year 2, Semester 1
- Year 2, Semester 2
- Year 3, Semester 1
- Year 3, Semester 2
- Year 4, Semester 1
- Year 4, Semester 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1, Semester 1</td>
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</tbody>
</table>
### Bachelor of Corporate Systems Management/Bachelor of Information Technology

**Year** | 2012  
**QUT code** | IT07  
**CRICOS** | 063028M  
**Duration (full-time)** | 4 years  
**OP** | 13  
**Rank** | 73  
**CRICOS** | 063028M  
**Campus** | Gardens Point  
**Domestic fee (indicative)** | 2012: CSP $4,111 per Semester  
**International fee (indicative)** | 2012: $11,500 per Semester  
**Total credit points** | 384  
**Credit points full-time sem.** | 48  
**Start months** | February  
**Int. Start Months** | February  
**Deferment** | You can defer your offer and postpone the start of your course for one year  
**Course Coordinator** | Mike Roggenkamp (Information Technology Major), Dr Taizan Chan (Corporate Systems Management Major)  

### Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA) of English and one of the following: Maths A, Maths B or Maths C.

### International Subject prerequisites
- English

You must have achieved study at a level comparable to Australian Year 12 or in recognised post-secondary studies in English and one of the following: Maths A, Maths B or Maths C.

### Minimum English requirements
Students must meet the English proficiency requirements.

| IELTS (International English Language Testing System) |  
|---|---|---|---|---|---|---|---|---|  
| Speaking | 6.0 |  
| Writing | 6.0 |  
| Reading | 6.0 |  
| Listening | 6.0 |  
| Overall | 6.5 |  

### Career Outcomes
The professional skills gained from this double degree are applicable across all business domains. As a graduate, you can expect to work in roles such as a business analyst or consultant, information and communication technologies project manager or information technology infrastructure manager, information analyst, business process manager, information manager, database manager, data communications specialist, systems analyst or programmer.

### Professional Recognition
This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

### Study Areas
IT07 will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate’s parchment. Instead, IT07 will have specialisations. The specialisation areas that will be available for students will include:
- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies

### Pathways to Further Studies
In 2001, the Faculty introduced an accelerated Honours program to increase the number of Bachelor of Information Technology students continuing their studies to complete the Honours year. The program allowed selected high achieving students the opportunity to undertake one postgraduate unit in the final semester of their a BIT degree (or double degree) which would be counted both for completion of the degree and towards the Honours program. The program also provided students with the opportunity to commence their Honours studies over the Summer Semester.

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

### Cooperative Education
The Faculty's Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the [Cooperative Education Program](http://www.student.qut.edu.au/study/study;a=coopl).
Bachelor of Corporate Systems Management/Bachelor of Information Technology

Further Information
For further information about this course, please contact:

Course Coordinator
Dr Taizan Chan or Mr Richard Thomas
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Sample Structure

Seminars

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT07</td>
<td>Course Outline</td>
</tr>
<tr>
<td>Year 1</td>
<td>Semester 1</td>
</tr>
<tr>
<td>INB120</td>
<td>Corporate Systems</td>
</tr>
<tr>
<td>INB122</td>
<td>Organisational Databases</td>
</tr>
<tr>
<td>INB101</td>
<td>Impact of IT</td>
</tr>
<tr>
<td>INB102</td>
<td>Emerging Technology</td>
</tr>
<tr>
<td>Year 2</td>
<td>Semester 1</td>
</tr>
<tr>
<td>INB123</td>
<td>Project Management Practice</td>
</tr>
<tr>
<td>BSB115</td>
<td>Management</td>
</tr>
<tr>
<td>INB103</td>
<td>Industry Insights</td>
</tr>
<tr>
<td>INB104</td>
<td>Building IT Systems</td>
</tr>
<tr>
<td>Year 2</td>
<td>Semester 2</td>
</tr>
<tr>
<td>INB220</td>
<td>Business Analysis</td>
</tr>
<tr>
<td>BSB126</td>
<td>Marketing</td>
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<tr>
<td>IT Breadth Option</td>
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<tr>
<td>IT Breadth Option</td>
<td></td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 1</td>
</tr>
<tr>
<td>INB124</td>
<td>Information Systems Development</td>
</tr>
<tr>
<td>MGB223</td>
<td>Entrepreneurship and Innovation</td>
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<tr>
<td>IT Breadth Option</td>
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<tr>
<td>Year 3</td>
<td>Semester 2</td>
</tr>
<tr>
<td>INB322</td>
<td>Information Systems Consulting</td>
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<tr>
<td>INB221</td>
<td>Technology Management</td>
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<tr>
<td>INB201</td>
<td>Scalable Systems Development</td>
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<tr>
<td>IT Specialisation Option</td>
<td></td>
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<tr>
<td>Year 4</td>
<td>Semester 1</td>
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<tr>
<td>INB312</td>
<td>Enterprise Systems Applications</td>
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<tr>
<td>INB325</td>
<td>Corporate Systems Management Project</td>
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<td>INB301</td>
<td>The Business of IT</td>
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<td>Year 4</td>
<td>Semester 2</td>
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<tr>
<td>INB320</td>
<td>Business Process Modelling</td>
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<td>INB302</td>
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This information is correct as at 16/12/2013. For the most up-to-date course information, visit
Bachelor of Corporate Systems Management/Bachelor of Information Technology

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
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<tbody>
<tr>
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<td>CRICOS</td>
<td>063028M</td>
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<tr>
<td>Duration (full-time)</td>
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<td>OP</td>
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<tr>
<td>Rank</td>
<td>74</td>
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<tr>
<td>Campus</td>
<td>Gardens Point</td>
</tr>
<tr>
<td>Total credit points</td>
<td></td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Richard Thomas (Information Systems Major), Dr Taizan Chan (Corporate Systems Management Major)</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td></td>
</tr>
</tbody>
</table>

**Minimum English requirements**
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
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<td>6.0</td>
</tr>
<tr>
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</tr>
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<td>listening</td>
<td>6.0</td>
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<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Course discontinued**
The Faculty of Science and Technology (now Science and Engineering) has discontinued this course and only IT08 continuing students can enrol. Please contact enquiry.scitech@qut.edu.au for any enquiries.

**Cooperative Education Program**
The Faculty’s Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the [Cooperative Education Program](#).

**Unit Incompatibility/Translation Information**
Details on the translation and incompatibility of old and new units is located here:
[Undergraduate Translation Table](#)
If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

**Further Information**
For further information about this course, please contact:

**Course Coordinator**
Richard Thomas or Taizan Chan
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au
Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas

- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths A, B or C (4, SA)).

International Subject prerequisites
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths A, B or C (4, SA)).

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<table>
<thead>
<tr>
<th>Speaking</th>
<th>Writing</th>
<th>Listening</th>
<th>Overall</th>
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<tbody>
<tr>
<td>6.0</td>
<td>6.0</td>
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</tr>
</tbody>
</table>

Career Outcomes
Graduates may find roles as an entrepreneur in the games environment, or in management roles within the games and entertainment industry, for example, project manager, production manager, producer, content manager, business development manager, product manager or marketer.

Professional Recognition
This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Cooperative Education Program
The Faculty’s Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energe, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNiTAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the Cooperative Education Program.

Further Information
For further information about this course, please contact:

Corporate Systems Management Course Coordinator
Dr Taizan Chan
Phone: (07)3138 2533
Email: sef.enquiry@qut.edu.au

Games and Interactive Entertainment Course Coordinator
Michael Docherty
Phone: (07) 3138 2515
Email: sef.enquiry@qut.edu.au

Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
<th>Code</th>
<th>Title</th>
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<tr>
<td>Year 1, Semester 1</td>
<td>INB120</td>
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<tr>
<td>Year 2, Semester 2</td>
<td>BSB115</td>
<td>Management</td>
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<td>Year 2, Semester 1</td>
<td>INB122</td>
<td>Organisational Databases</td>
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<tr>
<td>Year 2, Semester 2</td>
<td>INB124</td>
<td>Information Systems Development</td>
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</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/couse?courseCode=IT09&courseID=45644. CRICOS No.00213J
Bachelor of Corporate Systems Management/Bachelor of Games and Interactive Entertainment

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<td>BSB126</td>
<td>Marketing</td>
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<tr>
<td>Games &amp; Interactive Entertainment Major Unit</td>
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<tr>
<td>INB220</td>
<td>Business Analysis</td>
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<td>INB221</td>
<td>Technology Management</td>
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<table>
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<tbody>
<tr>
<td>MGB223</td>
<td>Entrepreneurship and Innovation</td>
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</tr>
<tr>
<td>INB301</td>
<td>The Business of IT</td>
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</tr>
<tr>
<td>Games &amp; Interactive Entertainment Major Unit</td>
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<tr>
<td>Games &amp; Interactive Entertainment Major Unit</td>
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<tr>
<th>Year 4, Semester 1</th>
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<tbody>
<tr>
<td>INB379</td>
<td>Game Project Design</td>
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<tr>
<td>INB322</td>
<td>Information Systems Consulting</td>
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<tr>
<td>INB312</td>
<td>Enterprise Systems Applications</td>
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<td>INB325</td>
<td>Corporate Systems Management Project</td>
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<td>INB380</td>
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<td>INB320</td>
<td>Business Process Modelling</td>
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<td>Games &amp; Interactive Entertainment Major Unit</td>
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<tr>
<td>INB313</td>
<td>Electronic Commerce Site Development</td>
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</table>
### Domestic Entry requirements

**Literacy course requirements**

All Bachelor of Education students are required to satisfactorily complete assessment criteria relating to Queensland College of Teachers' (QCT) literacy standards by the end of year three of their course in order to meet the course and QCT professional accreditation requirements.

Literacy modules have been developed as a remedial action for students who do not attain satisfactory standards on the relevant literacy criterion during their assessment in the first year of their studies. Students will have the support of the First Year Experience Coordinator. Students may attempt these modules any number of times during the first three years of their program.

At the end of year three, unsatisfactory results within course work and these modules may result in a recommendation for an early exit from the four-year degree. The literacy requirement will also apply to double degree students with a slight variation.

**Working with Children Check: blue card**

A Blue Card is required as you will be working with children and young people as part of this course. You can apply for a Blue Card through QUT at no cost.

If you do not receive your blue card before the start of a unit that requires contact with children, you may not be able to participate and your grades may be affected. You may also still be liable to pay fees for the unit.

Submit your blue card application to the QUT Student Centre as early as possible, ideally as soon as you have received your offer.

**How to apply for a blue card**

**Domestic Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas:

- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)). Recommended study: At least one of the sciences. For biochemistry, biotechnology and microbiology majors - Biology and Chemistry; for physics major - Maths C.

### International Entry requirements

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All Bachelor of Education students are required to satisfactorily complete assessment criteria relating to Queensland College of Teachers' (QCT) literacy standards by the end of year three of their course in order to meet the course and QCT professional accreditation requirements.

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**How to apply for a blue card**

**International Subject prerequisites**

- Maths B
- English
Bachelor of Applied Science/Bachelor of Education (Secondary)

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)).

Recommended study: At least one of the sciences. For biochemistry, biotechnology and microbiology majors - Biology and Chemistry; for physics major - Maths C.

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

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<td>6.0</td>
<td>6.5</td>
</tr>
</tbody>
</table>

IMPORTANT NOTE
This course is currently under review for future offerings (2013 onwards).

Enrolling
It is imperative that you enrol in both semester 1 and semester 2 units at the start of each year.

Course Overview
This double degree enables you to work as a science professional or pursue a career in scientific research. Alternatively, the Bachelor of Education (Secondary) prepares you to teach in two curriculum areas in secondary school. The science majors that are most relevant if you are intending to follow a career in secondary school teaching are chemistry, ecology, geoscience, mathematics or physics.

Professional Recognition
This course meets the requirements for registration as a teacher in Queensland. It is recognised nationally and internationally, however additional requirements may be needed for some locations.

Graduates will also satisfy the requirements for membership of the relevant professional body for their chosen science major. See Studyfinder for details on the Bachelor of Applied Science majors.

Other Course Requirements

Blue Card
As required by the Commission for Children and Young People and Child Guardian Act (2000), student teachers must undergo a criminal history check and be issued with a Suitability Card (Blue Card) by the Commission. You must hold a Blue Card to undertake activities in any unit which involves contact with children, including the required field studies blocks, which commence in late January Year 2. The application form is available at student.qut.edu.au/studying/jobs-and-work-experience/work-experience-and-placements/blue-cards.

Literacy
Students must meet the Queensland College of Teachers' literacy standards by the end of Year 3. For more information please visit AskQUT and enter 'Literacy Modules' in the FAQ.

Course Design
See the Bachelor of Applied Science course information for details of major areas of study. To allow you to complete the double degree in a shorter period of time, co-majors are to be taken from the education technology program.

Further Information
For further information about this course, please contact the following:

Science Coordinator
Dr Marion Bateson (as of August 2012)
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au

Dr Perry Hartfield (prior to August 2012)
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au

Education Coordinator
Dr Mal Shield
Phone: +61 7 3138 3323
Email: m.shield@qut.edu.au

Facility of Education Office
Phone: +61 7 3138 3948
Fax: +61 7 3138 3949
Email: jo.wakefield@qut.edu.au

Discipline Coordinators

Biochemistry Major
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Biotechnology Major
Dr Marion Bateson
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Chemistry Major
Associate Professor Dennis Arnold
Phone: +61 7 3138 2482
Email: d.arnold@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Ecology Major
Dr Ian Williamson
Phone: +61 7 3138 2779
Email: i.williamson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Environmental Science Major
Dr Ian Williamson
Phone: +61 7 3138 2779
Email: i.williamson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Geoscience Major
Dr Craig Sloss
Phone: +61 7 3138 2610
Email: c.sloss@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Mathematics Major
Dr Scott McCue
Phone: +61 7 3138 4295
Email: s.mccue@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Microbiology Major
Dr Christine Knox
Phone: +61 7 3138 2327
Email: c.knox@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Physics Major
Dr Stephen Hughes
Phone: +61 7 3138 2327
Email: sw.hughes@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au
Bachelor of Applied Science/Bachelor of Education (Secondary)

Domestic Course structure
See the Bachelor of Applied Science course information for details of major areas of study. To allow you to complete the double degree in a shorter period of time, co-majors are to be taken from the education technology program.

The Bachelor of Applied Science majors that are relevant to secondary teaching include:
- chemistry
- ecology
- geoscience
- mathematics
- physics.

International Course structure
See the Bachelor of Applied Science course information for details of major areas of study. To allow you to complete the double degree in a shorter period of time, co-majors are to be taken from the education technology program.

The Bachelor of Applied Science majors that are relevant to secondary teaching include:
- chemistry
- ecology
- geoscience
- mathematics
- physics.

Sample Structure

Semesters

<table>
<thead>
<tr>
<th>Year 1, Semester 1</th>
<th>Science Major Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1, Semester 2</td>
<td>Science Major Unit</td>
</tr>
<tr>
<td>Year 2, Semester 1</td>
<td>Science Major Unit</td>
</tr>
<tr>
<td>Year 2, Semester 2</td>
<td>Science Major Unit</td>
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<td>Year 3, Semester 1</td>
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<td>Year 3, Semester 2</td>
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<td>Year 4, Semester 1</td>
<td>Science Major Unit</td>
</tr>
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<td>Year 4, 6TP4</td>
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<td>EDB031</td>
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<tr>
<td></td>
<td>Curriculum Studies 1X (See List 1)</td>
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<td></td>
<td>Science Major Unit</td>
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<tr>
<td></td>
<td>Please note: The teaching prac component of EDB031 will be organised to commence as soon as schools return for Term 1 in January. Students will have to be available for four weeks prior to commencement of semester 1. This is to alleviate the problem of students studying 13 week discipline units in the same semester as a teaching prac. Contact the Student Affairs Office on 3138 3948 for further information.</td>
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<tr>
<td>Year 2, Semester 2</td>
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<td>Curriculum Studies 1Y (See List 1)</td>
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<td>EDB032</td>
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<td>EDB007</td>
<td>Culture Studies: Indigenous Education</td>
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<td>(students must enrol in the 6TP4 mode for both EDB005 and EDB007)</td>
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<td>EDB005 is delivered through the Stepping Out Conference, which runs over 3 days in ‘O’ Week of Semester 2 (dates TBA).</td>
</tr>
<tr>
<td>Year 4, Semester 2</td>
<td>Science Major Unit</td>
</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit

Please note that successful completion of all other coursework is required before students can commence the final Field Studies EDB034 and Internship EDB035.
Bachelor of Applied Science/Bachelor of Education (Primary)

Handbook

<table>
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<tr>
<td>International fee (indicative)</td>
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<td>Credit points full-time sem.</td>
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<tr>
<td>Int. Start Months</td>
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<tr>
<td>Deferment</td>
<td>You can defer your offer and postpone the start of your course for one year</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Dr Marion Bateson. For Education contact Student Affairs 07 3138 3947, or <a href="mailto:educationenq@qut.edu.au">educationenq@qut.edu.au</a>. For course progression advice contact Nikki Kyle on 07 3138 3212 or <a href="mailto:nm.kyle@qut.edu.au">nm.kyle@qut.edu.au</a>.</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Education Course Coordinator Dr Lenore Adie. Science Discipline Coordinators: Dr Perry Hartfield (Biochemistry Major); Dr Marion Bateson (Biotechnology Major); Associate Professor Dennis Arnold (Chemistry Major); Dr Ian Williamson (Ecology Major); Dr Ian Williamson (Environmental Science Major); Dr Craig Sloss (Geoscience Major); Dr Scott McCue (Mathematics Major); Dr Christine Knox (Microbiology Major); Dr Stephen Hughes (Physics Major)</td>
</tr>
</tbody>
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Domestic Entry requirements

Literacy course requirements
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Literacy modules have been developed as a remedial action for students who do not attain satisfactory standards on the relevant literacy criterion during their assessment in the first year of their studies. Students will have the support of the First Year Experience Coordinator. Students may attempt these modules any number of times during the first three years of their program.

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If you do not receive your blue card before the start of a unit that requires contact with children, you may not be able to participate and your grades may be affected. You may also still be liable to pay fees for the unit.

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How to apply for a blue card

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)).

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How to apply for a blue card

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)).
Bachelor of Applied Science/Bachelor of Education (Primary)

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

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</tbody>
</table>

IMPORTANT NOTE
This course is currently under review for future offerings (2013 onwards).

Course Overview
This double degree enables you to work as a science professional or pursue a career in scientific research. Alternatively, the Bachelor of Education (Primary) will prepare you to teach at all levels of primary school. You may also complete a discipline and content studies major in one of the key learning areas of the Queensland school curriculum.

Professional Recognition
This course meets the requirements for registration as a teacher in Queensland. It is recognised nationally and internationally, however additional requirements may be needed for some locations.

Graduates will also satisfy the requirements for membership of the relevant professional body for their chosen science major. See Studyfinder for details on the Bachelor of Applied Science majors.

Literacy Standards
All students are required to satisfactorily complete assessment criteria relating to Queensland College of Teachers’ literacy standards by the end of year 3 of their course in order to meet course and QCT professional accreditation requirements. Literacy modules have been developed as a remedial action for students who do not attain satisfactory standards on the relevant literacy criterion during their assessment in the first year of their studies. Students will have the support of the First Year Experience Coordinator.

Students may attempt these modules any number of times during the first three years of their program. At the end of year 3, unsatisfactory results within course work and these modules may result in a recommendation for an early exit from the four year degree.

Literacy modules can be accessed through Blackboard. Select the Community tab, then enter ‘literacy modules’ in the community search.

Working with Children Check
Working With Children Check - As required by the Commission for Children and Young People and Child Guardian Act (2000), student teachers must undergo a criminal history check and be issued with a Suitability Card (Blue Card) by the Commission.

As soon as you enter your enrolment program for the course, you must submit your Blue Card application to the QUT Student Centre immediately. You must hold a Blue Card: to undertake activities in any unit which involves contact with children, including the required field studies blocks.

If you do not apply for a Blue Card immediately upon enrolment in the course and allow sufficient time for the police check and issuing of the Card, you will be unable to participate in the required activities and may need to be withdrawn from the unit(s) and incur both financial and academic penalty. It may take up to 8 weeks for the Commission to issue the Card. The application form is available at http://www.student.qut.edu.au/studying/jobs-and-work-experience/work-experience-and-placements/blue-cards.

Field studies units will be taken in Queensland schools.

Course Design
Graduates from this double degree will have a science degree with the same core support and choice of major study areas as the graduates from the Bachelor of Applied Science (SC01) program. Education studies will comprise the co-major component. Field Studies units will be taken in Queensland schools.

Further Information
For further information about this course, please contact the following:

Science Coordinator
Dr Marion Bateson (as of August 2012)
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au

Dr Perry Hartfield (prior to August 2012)
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au

Faculty of Education
Student Affairs
Phone: +61 7 3138 3947
Email: educationeq@qut.edu.au

Discipline Coordinators
Biochemistry Major
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Biotechnology Major
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Email: m.bateson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Chemistry Major
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Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

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Email: i.williamson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Environmental Science Major
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Phone: +61 7 3138 2779
Email: i.williamson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Geoscience Major
Dr Craig Sloss
Phone: +61 7 3138 2610
Email: c.sloss@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Geoscience Major
Dr Scott McCue
Phone: +61 7 3138 4295
Email: s.mccue@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=RI24&courseId=15673. CRICOS No.00213J.
## Bachelor of Applied Science/Bachelor of Education (Primary)

### Microbiology Major
Dr Christine Knox  
Email: c.knox@qut.edu.au  
Alternative phone contact: +61 7 3138 8822  
Alternative email contact: sef.enquiry@qut.edu.au

### Physics Major
Dr Stephen Hughes  
Phone: +61 7 3138 2327  
Email: sw.hughes@qut.edu.au  
Alternative phone contact: +61 7 3138 8822  
Alternative email contact: sef.enquiry@qut.edu.au

### Domestic Course Structure
#### Your course
This double degree gives you a science degree with the same support and choice of major study areas as the Bachelor of Applied Science program.

Available majors include:
- biochemistry
- biotechnology
- chemistry
- ecology
- environmental science
- geoscience
- mathematics
- microbiology
- physics.

### International Course Structure
#### Your course
This double degree gives you a science degree with the same support and choice of major study areas as the Bachelor of Applied Science program.

Available majors include:
- biochemistry
- biotechnology
- chemistry
- ecology
- environmental science
- geoscience
- mathematics
- microbiology
- physics.

### Sample Structure
#### Semesters
- **Year 1, Semester 1**
- **Year 1, Semester 2**
- **Year 2, Semester 1**
- **Year 2, Semester 2**
- **Year 3, Semester 1**
- **Year 3, Semester 2**
- **Year 4, Semester 1**
- **Year 4, Semester 2**
- **Year 4, 6TP4**
- **Year 4, Semester 2**

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<tr>
<td>EDB003</td>
<td>Teaching and Learning Studies 3: Practising Education</td>
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</tbody>
</table>

### Course Notes
- PLEASE NOTE THAT SOME COURSEWORK UNITS CANNOT BE STUDIED IN THE SAME SEMESTER AS A FIELD STUDIES UNIT. If students do not follow the standard course progression (eg due to a fail grade, or non enrolment in units), time will be added onto the course duration, and you should contact Student Affairs for progression advice, nm.kyle@qut.edu.au.
- All other course requirements must have been successfully completed before commencing EDB024 and EDB025 in your final semester of study. This is a University and Queensland College of Teachers requirement.
- Students must have a valid Bluecard to be eligible for Field Studies units.

### Designated Units
- EDB022 Primary Field Studies 2: Practising Education in the Field
- EDB005 Teaching and Learning Studies 5: Professional Work of Teachers
- EDB024 Primary Field Studies 4: Professional Work of Teachers - Induction into the Field
- EDB025 Internship (Primary)

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=IX14&courseID=15673. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=IX14&courseID=15673. CRICOS No.00213J)
# Bachelor of Applied Science/Bachelor of Information Technology

**Handbook**

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<td>Total credit points</td>
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**Course Coordinator**
- Dr Marion Bateson (Science)
- Mr Richard Thomas (Information Systems)

**Discipline Coordinator**
- Dr Perry Hartfield (Biochemistry Major)
- Dr Marion Bateson (Biotechnology Major)
- A/Prof Dennis Arnold (Chemistry Major)
- Dr Ian Williamson (Ecology Major)
- Dr Ian Williamson (Environmental Science Major)
- Dr Emad Kiriakous (Forensic Science Major)
- Dr Craig Sloss (Geoscience Major)
- Dr Christine Knox (Microbiology Major)
- Dr Stephen Hughes (Physics Major)

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
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<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Course discontinued**

This course has been discontinued. Currently enrolled students should check with the Course Coordinator for enrolment and unit information.
Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas:
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA) of English and one of the following: Maths A, Maths B or Maths C.

Minimum english requirements

Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
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<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Course Update

From Semester 1, 2009, a revised version of this double degree program has been introduced. This course has been recoded IX56 Bachelor of Creative Industries/Bachelor of Information Technology. The current IX27 Bachelor of Creative Industries/Bachelor of Information Technology will be offered for continuing students only.

Course Structure

This course is made up of 384 credit points. Each component (i.e. Creative Industries and Information Technology) comprises 192 credit points.

The Creative Industries component is made up of 24 credit points of Faculty Foundation units, 168 credit points from Creative Industries interdisciplinary units.

The Information Technology component is made up of 120 credit points of Faculty core units and 72 credit points of units from an IT major.

Professional Recognition

Graduates of the Bachelor of Information Technology component meet the knowledge requirements for admission to the Australian Computer Society (ACS).
Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA). Accountancy, Finance, Economics and Marketing majors also require 4 SA in Maths A, B or C.

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Accountancy, Finance, Economics and Marketing majors also requires 4 SA in Maths A, B or C.

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<table>
<thead>
<tr>
<th>Test</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>Writing</td>
<td>6.0</td>
</tr>
<tr>
<td>Reading</td>
<td>6.0</td>
</tr>
<tr>
<td>Listening</td>
<td>6.0</td>
</tr>
<tr>
<td>Overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Career Outcomes
Electrical and computer engineers design, install and maintain electrical, electronic, telecommunications and computing systems on behalf of governments and private companies. Graduates of the Bachelor of Business are skilled in many aspects of business including: accountancy, advertising, banking and finance, economics, electronic business, human resource management, international business, management, marketing and public relations.

Overview
Students combine engineering knowledge in electronics, computer systems, telecommunications and electric power with a business course majoring in one of accountancy, advertising, economics, finance, human resource management, international business, management, marketing or public relations.

Professional Recognition
This degree meets the requirements for membership of Engineers Australia.

Business component: Students may be eligible for membership to a number of professional bodies depending on choice of major and unit selection. Details on professional recognition can be found under the individual majors of the Bachelor of Business (BS05).

Special Course Requirements
A candidate for the degree of Bachelor of Engineering must obtain at least 60 days of industrial employment/practice in an engineering environment as part of the Work Integrated Learning unit, before graduating.

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Course Design
Students are required to complete 480 credit points comprised of 288 credit points from the Bachelor of Engineering program and 192 credit points from the Bachelor of Business program. Students supplement the engineering component of this program with the 96 credit point Business School Core units in the Bachelor of Business program together with a 96 credit point Major in one of the following: Accountancy, Advertising, Economics, Finance, Human Resource Management, International Business, Management, Marketing or Public Relations.

Important Information
QUT Business School rules and procedures are outlined in the Business Undergraduate Guidelines booklet. Other useful information can be found on Student Services website.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au
QUT Business School: Phone +61 7 3138 2050, Fax +61 7 3138 1055, email: bus@qut.edu.au

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IX28&courseID=45390. CRICOS No.00213J
Domestic Course structure

Course Design
Students are required to complete 480 credit points comprised of 288 credit points from the Bachelor of Engineering program and 192 credit points from the Bachelor of Business program. Students supplement the engineering component of this program with the 96 credit point Business School Core units in the Bachelor of Business program together with a 96 credit point major in one of the following:

- Accountancy
- Advertising
- Economics
- Finance
- Human Resource Management
- International Business
- Management
- Marketing
- Public Relations.

International Course structure

Course Design
Students are required to complete 480 credit points comprised of 288 credit points from the Bachelor of Engineering program and 192 credit points from the Bachelor of Business program. Students supplement the engineering component of this program with the 96 credit point Business School Core units in the Bachelor of Business program together with a 96 credit point major in one of the following:

- Accountancy
- Advertising
- Economics
- Finance
- Human Resource Management
- International Business
- Management
- Marketing
- Public Relations.

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IX28&courseID=15390. CRICOS No.00213J
Bachelor of Information Technology/Bachelor of Mathematics

Minimum english requirements
Students must meet the English proficiency requirements.

**IELTS (International English Language Testing System)**
- speaking: 6.0
- writing: 6.0
- reading: 6.0
- listening: 6.0
- overall: 6.5

Course Update
From semester one, 2009 this course will not be available for commencing students. IX29 will only be available for continuing students. New students - please refer to IX57. Please contact sef.enquiry@qut.edu.au for any enquiries.

Professional Recognition
On graduation, students will be eligible for membership of the Mathematical Society of Australia, the Statistical Society of Australia Inc and, depending on unit selection, the Australian Society for Operations Research. Graduates of the Bachelor of Information Technology meet the knowledge requirement for admission to the Australian Computer Society.

Course Design
This double degree comprises 384 credit points with 192 credit points from Information Technology and 192 credit points form Mathematics. All majors in the Bachelor of Information Technology are available.

Cooperative Education Program
The Faculty’s Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Students wishing to participate in the Cooperative Education Program should be aware that they will not receive financial support as a Dean’s Scholar for the duration of the placement.

Mathematics Bursaries
Students enrolled in this course can apply for industry-sponsored bursaries. These bursaries are awarded to Australian citizens or permanent residents on a competitive basis. Applications should be submitted by 1 December of the year preceding entry to the course. For further information see www.maths.qut.edu.au

Unit Incompatibility/Translation Information
Details on the translation and incompatibility of old and new units is located here: [Undergraduate Translation Table](#)
If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au
### Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)). Accountancy, Finance, Economics and Marketing majors require 4 SA in Maths A, B or C.

### International Subject prerequisites

- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)). Accountancy, Finance, Economics and Marketing majors require 4 SA in Maths A, B or C.

### Minimum English requirements

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>Speaking</th>
<th>Writing</th>
<th>Reading</th>
<th>Listening</th>
<th>Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
</tr>
</tbody>
</table>

### IMPORTANT NOTE

As of 2013, this course will only be available for continuing Bachelor of Applied Science/Bachelor of Business students and those students who are commencing in 2013 with advanced standing of 96 credit points of 1st year Bachelor of Applied Science units.

New students - please refer to Bachelor of Science/Bachelor of Business. Please contact sef.enquiry@qut.edu.au for any enquiries.

### Overview

Through the combination of science and business, you will equip yourself for an exciting career at the cutting edge of scientific innovation within a range of public, private and non-profit industries.

Your business degree will give you a broad base of commercial knowledge as well as the opportunity to major in a specific business area. This understanding of business makes you more attractive to employers, even if you wish to work predominantly in a science-based career.

### Professional Recognition

Both degrees allow you to satisfy the requirements of membership of the relevant professional body for your chosen majors. Please refer to the relevant pages in this prospectus for details on your intended science major, and the QUT Business School prospectus for more information on business majors, or visit www.qut.edu.au/courses

### Important Information for Business Students

QUT Business School rules and procedures are outlined in the Business Undergraduate Guidelines booklet. Other useful information can be found on the Student Services website.

### Further Information

For further information about this course, please contact the following:

**Science Coordinator**
Dr Marion Bateson (as of August 2012)
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au

Dr Perry Hartfield (prior to August 2012)
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au

**Business Coordinator**
Phone: +61 7 3138 2050
Email: bus@qut.edu.au

**Science Discipline Coordinators**

**Biochemistry Major**
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au
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Alternative email contact:
Bachelor of Applied Science / Bachelor of Business

sef.enquiry@qut.edu.au

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Email: d.arnold@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

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Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

**Sample Structure**

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<thead>
<tr>
<th>Semesters</th>
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<td>Business School Major Unit</td>
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</tr>
<tr>
<td>Science Faculty Unit</td>
<td></td>
</tr>
<tr>
<td>Year 4 Semester 2</td>
<td></td>
</tr>
<tr>
<td>Business School Major Unit</td>
<td></td>
</tr>
<tr>
<td>Science Faculty Unit</td>
<td></td>
</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IX31&courseID=15674. CRICOS No.00213J
# Bachelor of Business/Bachelor of Mathematics

<table>
<thead>
<tr>
<th>Handbook</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year</strong></td>
<td>2012</td>
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<tr>
<td><strong>QUT code</strong></td>
<td>IX37</td>
</tr>
<tr>
<td><strong>CRICOS</strong></td>
<td>059601K</td>
</tr>
<tr>
<td><strong>Duration (full-time)</strong></td>
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</tr>
<tr>
<td><strong>OP</strong></td>
<td>10</td>
</tr>
<tr>
<td><strong>Rank</strong></td>
<td>81</td>
</tr>
<tr>
<td><strong>OP Guarantee</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Campus</strong></td>
<td>Gardens Point</td>
</tr>
<tr>
<td><strong>Domestic fee (indicative)</strong></td>
<td>2012: CSP $3,486 per Semester</td>
</tr>
<tr>
<td><strong>International fee (indicative)</strong></td>
<td>2012: $11,400 per Semester</td>
</tr>
<tr>
<td><strong>Total credit points</strong></td>
<td>384</td>
</tr>
<tr>
<td><strong>Credit points full-time sem.</strong></td>
<td>48</td>
</tr>
<tr>
<td><strong>Start months</strong></td>
<td>February</td>
</tr>
<tr>
<td><strong>Int. Start Months</strong></td>
<td>February</td>
</tr>
<tr>
<td><strong>Deferment</strong></td>
<td>You can defer your offer and postpone the start of your course for one year</td>
</tr>
<tr>
<td><strong>Course Coordinator</strong></td>
<td>Director of Undergraduate Studies, QUT Business School; email: <a href="mailto:bus@qut.edu.au">bus@qut.edu.au</a>; Associate Professor Dann Malet (Mathematics)</td>
</tr>
<tr>
<td><strong>Discipline Coordinator</strong></td>
<td>Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr John Chen (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Henri Burgers (Management); Mr Bill Proud (Marketing); and Dr Kim Johnston (Public Relations)</td>
</tr>
</tbody>
</table>

## Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)). Accountancy, Finance, Economics and Marketing majors also require 4 SA in Maths A, B or C.

## International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)). Accountancy, Finance, Economics and Marketing majors also require 4 SA in Maths A, B or C.

## Minimum English requirements
Students must meet the English proficiency requirements.

**IELTS (International English Language Testing System)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>Writing</td>
<td>6.0</td>
</tr>
<tr>
<td>Reading</td>
<td>6.0</td>
</tr>
<tr>
<td>Listening</td>
<td>6.0</td>
</tr>
<tr>
<td>Overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

## Professional Recognition
Both degrees allow you to satisfy the requirements of membership of the relevant professional body for your chosen majors. Please refer to the relevant pages in this prospectus for details on the Bachelor of Mathematics and the QUT Business School prospectus for more information on business majors or visit www.qut.edu.au/courses

## Financial Support
You should consider applying for an industry-sponsored mathematics bursary or a business scholarship to help you financially throughout your studies. For further information visit Scholarships.

## Course Design
Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor of Mathematics program and 192 credit points from the Bachelor of Business program.

### Business component:
- 2009 and 2010 commencing students
  - 7 Business School Core units (96 credit points)*
  - 8 Major Core units (96 credit points)*
  - MGB223 Entrepreneurship and Innovation

- 2007-2008 commencing students
  - 7 Business School Core units (84 credit points)*
  - 9 Major Core units (108 credit points)*

*Please note that BSB122 Quantitative Analysis & Finance (Replaced by BSB123 Data Analysis) is not required as the content of MAB313 Mathematics of Finance covers similar topics. An additional unit from the chosen major replaces BSB122/BSB123 for 2007 and 2008 commencing students. MGB223 Entrepreneurship and Innovation replaces BSB122/BSB123 for 2009 and 2010 commencing students.

### Important Information for Business Students
QUT Business School rules and procedures are outlined in the Business Undergraduate Guidelines booklet. Other useful information can be found on the Student Services website.

### Further Information
For further information about this course, please contact the following:

**Business Coordinator**
Phone: Student Services +61 7 3138 2117
Email: Student Services bus@qut.edu.au

**Mathematical Sciences Coordinator**
Prof Ethan Kozan
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

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This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=IX37&courseID=415675. CRICOS No.00213](http://www.student.qut.edu.au/studying/courses/course?courseCode=IX37&courseID=415675. CRICOS No.00213).
Bachelor of Business/Bachelor of Mathematics

Domestic Course structure

Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor of Mathematics program and 192 credit points from the Bachelor of Business program.

Business component:

2009 and 2010 commencing students

- 7 Business School Core units (96 credit points)*
- 8 Major Core units (96 credit points)
- MGB223 Entrepreneurship and Innovation*

2007-2008 commencing students

- 7 Business School Core units (84 credit points)*
- 9 Major Core units (108 credit points)

*Please note that BSB122 Quantitative Analysis & Finance (Replaced by BSB123 Data Analysis) is not required as the content of MAB313 Mathematics of Finance covers similar topics. An additional unit from the chosen major replaces BSB122/BSB123 for 2007 and 2008 commencing students. MGB223 Entrepreneurship and Innovation replaces BSB122/BSB123 for 2009 and 2010 commencing students.

International Course structure

Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor of Mathematics program and 192 credit points from the Bachelor of Business program.

Business component:

2009 and 2010 commencing students

- 7 Business School Core units (96 credit points)*
- 8 Major Core units (96 credit points)
- MGB223 Entrepreneurship and Innovation*

2007-2008 commencing students

- 7 Business School Core units (84 credit points)*
- 9 Major Core units (108 credit points)

*Please note that EFB101 Data Analysis for Business which is normally undertaken in the Majors of Accountancy, Banking & Finance and Economics, is not required as the content will be covered in the statistics units from the mathematics component of the program.

Sample Structure

Seminars

| Year 1 Semester 1 | Business School Core Unit | Mathematics Unit |
| Year 1 Semester 2 | Business School Core Unit | Mathematics Unit |
| Year 2 Semester 1 | Business School Core Unit | Mathematics Unit |
| Year 2 Semester 2 | Business School Core Unit | Mathematics Unit |
| Year 3 Semester 1 | Business School Major Unit | Mathematics Unit |
| Year 3 Semester 2 | Business School Major Unit | Mathematics Unit |
| Year 4 Semester 1 | Business School Major Unit | Mathematics Unit |
| Year 4 Semester 2 | Business School Major Unit | Mathematics Unit |
**Bachelor of Arts/Bachelor of Information Technology**

**Minimum English Requirements**
Students must meet the English proficiency requirements.

**IELTS (International English Language Testing System)**
- speaking: 6.0
- writing: 6.0
- reading: 6.0
- listening: 6.0
- overall: 6.5

**Sample Structure Semesters**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>YEAR 1 SEMESTER 1</strong></td>
</tr>
<tr>
<td>INB103</td>
<td>Industry Insights</td>
</tr>
<tr>
<td>INB250</td>
<td>Foundations of Computer Science</td>
</tr>
<tr>
<td>Major unit</td>
<td>Applied Skills And Scholarship</td>
</tr>
<tr>
<td></td>
<td><strong>YEAR 1 SEMESTER 2</strong></td>
</tr>
<tr>
<td>INB210</td>
<td>Databases</td>
</tr>
<tr>
<td>INB251</td>
<td>Networks</td>
</tr>
<tr>
<td>Major unit</td>
<td>Major unit</td>
</tr>
<tr>
<td></td>
<td><strong>YEAR 2 SEMESTER 1</strong></td>
</tr>
<tr>
<td>INB104</td>
<td>Building IT Systems</td>
</tr>
<tr>
<td></td>
<td>Major unit</td>
</tr>
<tr>
<td></td>
<td><strong>YEAR 2 SEMESTER 2</strong></td>
</tr>
<tr>
<td>INB270</td>
<td>Programming</td>
</tr>
<tr>
<td>INB271</td>
<td>The Web</td>
</tr>
<tr>
<td>Major unit</td>
<td>Major unit</td>
</tr>
<tr>
<td></td>
<td><strong>YEAR 3 SEMESTER 1</strong></td>
</tr>
<tr>
<td></td>
<td>IT Major Unit</td>
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<tr>
<td></td>
<td>IT Major Unit</td>
</tr>
<tr>
<td></td>
<td>Major unit</td>
</tr>
<tr>
<td></td>
<td><strong>YEAR 3 SEMESTER 2</strong></td>
</tr>
<tr>
<td></td>
<td>Discipline or Minor unit or Elective unit</td>
</tr>
</tbody>
</table>
Bachelor of Information Technology/Bachelor of Laws

Year: 2012
QUT code: IX53
CRICOS: 066292D
Duration (full-time): 5.5 years
OP: 5
Rank: 92
OP Guarantee: Yes
Campus: Gardens Point
Domestic fee (indicative): 2012: CSP $4,369 per Semester
International fee (indicative): 2012: $11300 per Semester
Total credit points: 528
Credit points full-time sem.: 48
Start months: February
Int. Start Months: February
Deferral: You can defer your offer and postpone the start of your course for one year
Coordinator: Mr Mike Roggenkamp (Information Technology), Dr Bill Dixon (Law)
Discipline Coordinator: Mr Bill Dixon
Law: +61 7 3138 2707
lawandjustice@qut.edu.au

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4,SA) and Maths A, B or C (4,SA)).

International Subject prerequisites
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4,SA) and Maths A, B or C (4,SA)).

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<table>
<thead>
<tr>
<th></th>
<th>speaking</th>
<th>writing</th>
<th>reading</th>
<th>listening</th>
<th>overall</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Career Outcomes
Graduates may develop careers in cyberlaw, intellectual property and privacy, dealing with the legal regulation of the Internet including downloading music, mobile phone camera use or copyright issues. You may become a legal practitioner, barrister, in-house counsel, government lawyer or policy adviser. There is also increased demand for roles in edemocracy both in government service delivery and political campaigning.

Professional Recognition
This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord. At the end of your Law degree you will have completed the necessary units for admission to legal practice in Australia. To become a practicing lawyer you will need to complete further practical legal training (e.g. Graduate Diploma in Legal Practice) and then apply for admission.

Study Areas
IX53 will not have nominated majors and minors in the IT component and consequently there will not be a Study Area A shown on a graduate's parchment. Instead, IX53 will have specialisations. The specialisation areas that will be available for students will include:
- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies

Pathways to Further Studies
In 2001, the Faculty introduced an accelerated Honours program to increase the number of Bachelor of Information Technology students continuing their studies to complete the Honours year. The program allowed selected high achieving students the opportunity to undertake one postgraduate unit in the final semester of their a BIT degree (or double degree) which would be counted both for completion of the degree and towards the Honours program. The program also provided students with the opportunity to commence their Honours studies over the Summer Semester.

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

Graduate Destination Streams
The Faculty of Law has identified graduate destination streams for students undertaking a law or law double degree. This means that, as students learn more throughout their degree, they can choose their elective units in the areas of law in which they become interested. Students are not restricted to choose electives from a single stream; the streams are only to provide guidance to students in making

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IX53&courseID=95676. CRICOS No.00213J
their elective choices.
- Legal Practice
- General Legal Practice (work as a lawyer across a wide range of different legal areas)
- Specialist Legal Practice (work as a lawyer specialising in a particular area of the law, such as property law, family law or corporate law)
- Advocacy and Dispute Resolution (acting for clients in court or resolving disputes through negotiation and mediation processes)
- Public Sector (work as a lawyer in a government department)
- Private Enterprise (for those students not wanting to practise as a lawyer, but perhaps work within business management, human resources, information technology etc)

As students progress towards the end of their degrees there are more opportunities to participate in subjects where they engage in ‘real world learning’, for example, working within law firms and government departments in placement electives.

Law School Electives

Information
Students who are enrolled in LW34 (straight law undergraduate entry) are required to undertake two contextual electives in the first year of their degree (one in each semester). Contextual electives may also be undertaken by any student as an ordinary elective within their degree. The contextual electives are:
- LWB142 Law Society and Justice
- LWB144 Law and Global Perspectives
- LWB149 Indigenous Legal Issues
- LWB150 Lawyering and Dispute Resolution.

Students who are enrolled in any of the law double degrees commence their law electives in the second semester of their second year.

Students who are enrolled in LW35 (Graduate Entry) commence their law electives in first semester of their second year.

Law students other than Graduate Entry students can undertake 4 non-law units as electives within their law degree. Students may be particularly interested in elective options within the School of Justice which relate to human rights and criminal justice.

Further Information
For further information about this course, please contact the following:

Information Technology Coordinator
Richard Thomas
Phone: +61 07 3138 8822
Email: sef.enquiry@qut.edu.au

Law Coordinator
Dr Bill Dixon
Ph: +61 7 3138 2707
Fax: +61 7 3138 2222
Email: law_enquiries@qut.edu.au

Domestic Course structure

Course structure
You will study a combination of information technology and law units in the first four years, with law units only in the final year. You will also have the opportunity to choose elective units relevant to your career interests.

Study Areas
You can choose to specialise in:
- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies

International Course structure

Course structure
You will study a combination of information technology and law units in the first four years, with law units only in the final year. You will also have the opportunity to choose elective units relevant to your career interests.

Study Areas
You can choose to specialise in:
- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies

Sample Structure

Semesters
- Year 1, Semester 1
- Year 1, Semester 2
- Year 2, Semester 1
- Year 2, Semester 2
- Year 3, Semester 1
- Year 3, Semester 2
- Year 4, Semester 1
- Year 4, Semester 2
- Year 5, Semester 1
- Year 5, Semester 2
- Year 6, Semester 1

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IX53&courseId=15676. CRICOS No.00213J
### Bachelor of Information Technology/Bachelor of Laws

<table>
<thead>
<tr>
<th>Law Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Law Elective</td>
</tr>
<tr>
<td>Law Elective</td>
</tr>
<tr>
<td>Law Elective</td>
</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=IX53&courseID=15676. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=IX53&courseID=15676. CRICOS No.00213J)
Bachelor of Engineering (Electrical)/Bachelor of Information Technology

**Domestic Entry requirements**

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator.

**Domestic Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas:

- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4,SA) and Maths B (4,SA)). Recommended study: Chemistry, Maths C and Physics.

**International Entry requirements**

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator.

**International Subject prerequisites**

- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4,SA) and Maths B (4,SA)). Recommended study: Chemistry, Maths C and Physics.

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Professional Recognition**

This course meets the requirements for membership of Engineers Australia (EA). EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world. This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

**Other Course Requirements**

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator.

**Cooperative Education Program**

IT’s Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the [Cooperative Education Program](#).

**Pathways to Further Studies**

In 2001, the Faculty introduced an accelerated Honours program to increase the number of Bachelor of Information Technology students continuing their studies to complete the Honours year. The program allowed selected high achieving students the opportunity to undertake one postgraduate unit in the final semester of their a BIT degree (or double degree) which would be counted both for completion of the degree and towards the Honours program. The program also provided students with the opportunity to commence their Honours studies over the Summer Semester.

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.
### Bachelor of Engineering (Electrical)/Bachelor of Information Technology

**Further Information**
For further information about this course, please contact the following:

**Engineering Coordinator**  
Phone +61 7 3138 8822  
Email: sef.enquiry@qut.edu.au

**Information Technology Coordinator**  
Phone +61 7 3138 8822  
Email: sef.enquiry@qut.edu.au

### Sample Structure

#### Semesters

<table>
<thead>
<tr>
<th>Year 1, Semester 1</th>
<th>Year 1, Semester 2</th>
<th>Year 2, Semester 2</th>
<th>Year 3, Semester 1</th>
<th>Year 3, Semester 2</th>
<th>Year 4, Semester 1</th>
<th>Year 4, Semester 2</th>
<th>Year 5, Semester 1</th>
<th>Year 5, Semester 2</th>
</tr>
</thead>
</table>
| ENB100 Engineering and Sustainability  
OR  
INB103 Industry Insights  
INB104 Building IT Systems  
INB101 Impact of IT  
MAB125 Foundations of Engineering Mathematics  
OR  
MAB126 Mathematics for Engineering 1 |
| ENB200 Introducing Engineering Systems  
INB120 Electrical Energy and Measurements  
MAB126 Mathematics for Engineering 1  
OR  
MAB127 Mathematics for Engineering 2 |
| ENB242 Introduction To Telecommunications  
ENB243 Linear Circuits and Systems  
IT Breadth Option Unit |
| ENB110 Engineering Statics and Materials  
ENB340 Power Systems and Machines  
IT Breadth Option Unit  
IT Breadth Option Unit |
| ENB244 Microprocessors and Digital Systems  
ENB245 Introduction To Design and Professional Practice  
ENB343 Fields, Transmission and Propagation  
IT Breadth Option Unit |
| ENB301 Instrumentation and Control  
INB301 The Business of IT  
INB342 Signals, Systems and Transforms  
INB201 Scalable Systems Development |
| ENB339 Introduction to Robotics  
ENB448 Signal Processing and Filtering  
ENB452 Advanced Power Systems Analysis  
ENB453 Power Equipment and Utilisation  
ENB456 Energy  
ENB457 Controls, Systems and Applications  
ENB458 Modern Control Systems |

**Electrical Engineering Selectives**

| ENB339 Introduction to Robotics  
ENB448 Signal Processing and Filtering  
ENB452 Advanced Power Systems Analysis  
ENB453 Power Equipment and Utilisation  
ENB456 Energy  
ENB457 Controls, Systems and Applications  
ENB458 Modern Control Systems |

| ENB339 Introduction to Robotics  
ENB448 Signal Processing and Filtering  
ENB452 Advanced Power Systems Analysis  
ENB453 Power Equipment and Utilisation  
ENB456 Energy  
ENB457 Controls, Systems and Applications  
ENB458 Modern Control Systems |

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IX54&courseID=15671. CRICOS No.00213J
# Bachelor of Applied Science/Bachelor of Information Technology

**Domestic Assumed knowledge**

Before you start this course we assume you have sound knowledge in these areas:

- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4,SA) and Maths A, B or C (4,SA)). Recommended study: At least one of the sciences. For biochemistry, biotechnology, forensic science, and microbiology majors - Biological Science and Chemistry; for physic major - Maths C.

## International Subject prerequisites

- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4,SA) and Maths A, B or C (4,SA)). Recommended study: At least one of the sciences. For biochemistry, biotechnology, forensic science, and microbiology majors - Biological Science and Chemistry; for physic major - Maths C.

## Minimum English requirements

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>speaking</th>
<th>writing</th>
<th>reading</th>
<th>listening</th>
<th>overall</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.5</td>
</tr>
</tbody>
</table>

## IMPORTANT NOTE

This course is currently under review for future offerings (2013 onwards).

## Course Overview

This double degree prepares you for an increasing range of careers that involve the application of information technology to science. It gives you the ability to use creative as well as analytical methods to solve scientific problems. Studying this double degree allows you to develop the technical skills required for your relevant field of study in applied science.

The science component of the course offers you the choice of majoring in biochemistry, biotechnology, chemistry, ecology, environmental science, forensic science, geosciences, microbiology or physics. Theoretical aspects are balanced by strong practical components in this course and information technology double degree.

## Professional Recognition

This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord. Please refer to the Science pages at [Studyfinder](http://www.student.qut.edu.au/studying/courses/course?courseCode=IX55&courseID=15645. CRICOS No.00213J) for more information on the relevant professional body for your chosen science major.

## Study Areas

IX55 will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate's parchment. Instead, IX55 will have specialisations. The specialisation areas that will be available for students will include:

- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies

## Cooperative Education

The Faculty's Cooperative Education Program gives you the opportunity of 12-month paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT's Coop Ed students have worked with include Enerex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNiTAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.


## Pathways to Further Studies

In 2001, an accelerated Honours program was introduced to increase the number of Bachelor of Information Technology students continuing their studies to complete the Honours year. The program allowed selected high achieving students the opportunity to undertake one postgraduate unit in the final semester of their BIT degree (or double degree) which
would be counted both for completion of the degree and towards the Honours program. The program also provided students with the opportunity to commence their Honours studies over the Summer Semester.

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

Further Information
For further information about this course, please contact the following:

Science Coordinator
Dr Marion Bateson (as of August 2012)
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au

Dr Perry Hartfield (prior to August 2012)
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au

Information Technology Coordinator
Mr Richard Thomas
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Discipline Coordinators

Biochemistry Major
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Biotechnology Major
Dr Marion Bateson
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Chemistry Major
Associate Professor Dennis Arnold
Phone: +61 7 3138 2482
Email: d.arnold@qut.edu.au
Alternative phone contact: +61 7 3138

Ecology Major
Dr Ian Williamson
Phone: +61 7 3138 2779
Email: i.williamson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Environmental Science Major
Dr Ian Williamson
Phone: +61 7 3138 2779
Email: i.williamson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Forensic Science Major
Dr Emad Kiriakous
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Email: sef.enquiry@qut.edu.au

Geoscience Major
Dr Craig Sloss
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Email: c.sloss@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Microbiology Major
Dr Christine Knox
Email: c.knox@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Physics Major
Dr Stephen Hughes
Phone: +61 7 3138 2327
Email: sw.hughes@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Domestic Course structure

Study Areas
You can choose to specialise in:
- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies.

International Course structure

Study Areas
You can choose to specialise in:
- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies.

Sample Structure

Seminars

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>Year 1, Semester 1</td>
<td></td>
</tr>
<tr>
<td>INB101</td>
<td>Impact of IT</td>
</tr>
<tr>
<td>INB102</td>
<td>Emerging Technology</td>
</tr>
<tr>
<td>Science Core Unit</td>
<td></td>
</tr>
<tr>
<td>Science Core Unit</td>
<td></td>
</tr>
</tbody>
</table>

Year 1, Semester 2
| INB103 | Industry Insights                          |
| INB104 | Building IT Systems                        |
| Science Core Unit |
| Science Core Unit |

Year 2, Semester 1
| IT Breadth Unit Option |
| Science Core Unit |
| Science Core Unit |

Year 2, Semester 2
| IT Breadth Unit Option |
| Science Core Unit |
| Science Core Unit |

Year 3, Semester 1
| IT Breadth Unit Option |
| Science Core Unit |
| Science Core Unit |

Year 3, Semester 2
| INB300 | Professional Practice in IT            |
| IT Specialisation Unit Option |
| Science Major Unit |
| Science Major Unit |

Year 4, Semester 1
| INB300 | Professional Practice in IT            |
| IT Specialisation Unit Option |
| Science Major Unit |
| Science Major Unit |
## Bachelor of Applied Science/Bachelor of Information Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year, Semester</th>
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<tbody>
<tr>
<td>INB301</td>
<td>The Business of IT</td>
<td>Year 3, Semester 1</td>
</tr>
<tr>
<td></td>
<td>IT Specialisation Unit Option</td>
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</tr>
<tr>
<td></td>
<td>Science Major Unit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Science Major Unit</td>
<td></td>
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<tr>
<td>INB302</td>
<td>IT Capstone Project</td>
<td>Year 4, Semester 2</td>
</tr>
<tr>
<td></td>
<td>IT Specialisation Unit Option</td>
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</tr>
<tr>
<td></td>
<td>Science Major Unit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Science Major Unit</td>
<td></td>
</tr>
</tbody>
</table>
Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4,SA) and Maths A, B or C (4,SA)).

International Subject prerequisites
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4,SA) and Maths A, B or C (4,SA)).

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
speaking 6.0
writing 6.0
reading 6.0
listening 6.0
overall 6.5

Course Overview
This double degree allows you to complement your technical skills with creative skills through digital media and film production. You will learn to merge the creative and imaginative with the technical to develop sophisticated and innovative digital products. You can choose to complement your skill set through a range of information technology and creative industries areas of interest to diversify your studies, including:
- animation
- art and design history
- creative and professional writing
- dance studies
- digital media
- entertainment industries
- entrepreneurship
- fashion
- film, television and screen game design
- interactive and visual design
- journalism, media and communication
- literary studies
- music
- online environments

Career Outcomes
As a graduate you can enjoy the more creative side of information technology careers including digital media programmer, simulation designer or developer, games producer or designer, sound designer, mobile entertainment and communications developer, user interface developer, knowledge worker in music and sound, web developer and digital product strategist.

Professional Recognition
This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Course Design
You will undertake the Bachelor of Creative Industries core units as well as one creative industries major. Your information technology degree component comprises eight core units, four breadth units, and four units in your information technology specialisation.

Study Areas
The Bachelor of Information Technology will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate’s parchment. Instead, it will have specialisations. The specialisation areas that will be available for students will include:
- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies

Pathways to Further Studies
In 2001, an accelerated Honours program was introduced to increase the number of Bachelor of Information Technology students continuing their studies to complete the Honours year. The program allowed selected high achieving students the opportunity to undertake one postgraduate unit in the final semester of their a BIT degree (or double degree) which would be counted both for completion of the degree and towards the Honours program. The program also provided students with the opportunity to commence their Honours studies over the Summer Semester.
Bachelor of Creative Industries/Bachelor of Information Technology

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, can undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

Cooperative Education
The Faculty’s Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energex, Boeing, CITECT, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the Cooperative Education Program.

Unit Incompatibility/Translation Information
Details on the translation and incompatibility of old and new units is located here: Undergraduate Translation Table
If you have completed the unit(s) listed under the “Translation Unit Codes” column, you are not permitted to enrol in the listed new code.

Further Information
For Further information about this course please contact the following:

Information Technology Coordinator
Richard Thomas
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Creative Industries Coordinator
Phone: +61 7 3138 8114
Fax: +61 7 3138 8116
Email: creativeindustries@qut.edu.au

Domestic Course structure
You will undertake the Bachelor of Creative Industries core units as well as one creative industries major. Your information technology degree component comprises eight core units, four breadth units, and four units in your information technology specialisation.

Study Areas
The Bachelor of Information Technology will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate’s parchment. Instead, it will have specialisations. The specialisation areas that will be available for students will include:
- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies

International Course structure
You will undertake the Bachelor of Creative Industries core units as well as one creative industries major. Your information technology degree component comprises eight core units, four breadth units, and four units in your information technology specialisation.

Study Areas
The Bachelor of Information Technology will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate’s parchment. Instead, it will have specialisations. The specialisation areas that will be available for students will include:
- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies

Sample Structure Semesters

| Year 1, Semester 1 | INB103 | Industry Insights |
| Year 1, Semester 2 | INB104 | Building IT Systems |
| Year 2, Semester 1 | KKB102 | Creative Industries: Making Connections |
| Year 2, Semester 2 | Creative Industries Major: First Unit |
| Year 3, Semester 1 | INB201 | Scalable Systems Development |
| Year 3, Semester 2 | Creative Industries Major: Fifth Unit |
| Year 4, Semester 1 | INB300 | Professional Practice in IT |
| Year 4, Semester 2 | Creative Industries Major: Sixth Unit |
| Year 4, Semester 3 | Creative Industries Major: Seventh Unit |
| Year 4, Semester 4 | Creative Industries Major: Eighth Unit |

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IX56&courseId=18501. CRICOS No.00213J.
Bachelor of Information Technology/Bachelor of Mathematics

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
• Maths B
• English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4,SA) and Maths B (4,SA)).

International Subject prerequisites
• Maths B
• English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4,SA) and Maths B (4,SA)).

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
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</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Professional Recognition
Graduates will be eligible for membership of the Mathematical Society of Australia, the Statistical Society of Australia and, depending on unit selection, the Australian Society for Operations Research. This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Financial Support
You should consider applying for an industry-sponsored mathematics bursary or an information technology scholarship to help you financially throughout your studies. For further information visit Scholarships.

Study Areas
IX57 will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate’s parchment. Instead, IX57 will have specialisations. The specialisation areas that will be available for students will include:
• Business Process Management
• Data Warehousing
• Digital Societies
• Enterprise Systems
• Information Management
• Network Systems
• Software Engineering
• Web Technologies

Pathways to Further Studies
In 2001, an accelerated Honours program was introduced to increase the number of Bachelor of Information Technology students continuing their studies to complete the Honours year. The program allowed selected high achieving students the opportunity to undertake one postgraduate unit in the final semester of their a BIT degree (or double degree) which would be counted both for completion of the degree and towards the Honours program. The program also provided students with the opportunity to commence their Honours studies over the Summer Semester.

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

Cooperative Education
The Faculty’s Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the Cooperative Education Program.
Bachelor of Information Technology/Bachelor of Mathematics

Further Information
For further information about this course, please contact the following:

Information Technology Coordinator
Mr Richard Thomas
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Mathematical Sciences Coordinator
Dr Tim Moroney
Phone: +61 7 3138 2262
Email: t.moroney@qut.edu.au

Domestic Course structure
Study areas
You can choose to specialise in:
- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies.

International Course structure
Study areas
You can choose to specialise in:
- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies.

Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
<th>Code</th>
<th>Title</th>
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<tr>
<td>Year 1, Semester 1</td>
<td>INB101</td>
<td>Impact of IT</td>
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<td>INB102</td>
<td>Emerging Technology</td>
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<tr>
<td></td>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
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<tr>
<td></td>
<td>MAB122</td>
<td>Algebra and Analytic Geometry</td>
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<td>Year 1, Semester 2</td>
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<tr>
<td>Year 2, Semester 1</td>
<td>INB103</td>
<td>Industry Insights</td>
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<td>INB104</td>
<td>Building IT Systems</td>
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<td></td>
<td>MAB210</td>
<td>Statistical Modelling 1</td>
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<td>MAB220</td>
<td>Computational Mathematics 1</td>
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<td>Year 2, Semester 2</td>
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<td>MAB101</td>
<td>Statistical Data Analysis 1</td>
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<td>MAB312</td>
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<td>Scalable Systems Development</td>
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<td>MAB311</td>
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<td>INB300</td>
<td>Professional Practice in IT</td>
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<td>Level 2 or 3 Maths Unit</td>
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<td>Year 4, Semester 1</td>
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<tr>
<td></td>
<td>INB301</td>
<td>The Business of IT</td>
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<td>IT Specialisation Unit Option</td>
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<td>Level 2 or 3 Maths Unit</td>
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<td>Year 4, Semester 2</td>
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<td>INB302</td>
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<td>Level 2 or 3 Maths Unit</td>
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</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit
# Bachelor of Business/Bachelor of Information Technology

**Handbook**

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
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<tbody>
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<td>QUT code</td>
<td>IX58</td>
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<tr>
<td>CRICOS</td>
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<td>Duration (full-time)</td>
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<td>OP</td>
<td>11</td>
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<tr>
<td>Rank</td>
<td>78</td>
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<tr>
<td>OP Guarantee</td>
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<tr>
<td>Campus</td>
<td>Gardens Point</td>
</tr>
<tr>
<td>Domestic fee (indicative)</td>
<td>2012: CSP $4,369 per Semester</td>
</tr>
<tr>
<td>International fee (indicative)</td>
<td>2012: $11400 per Semester</td>
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<tr>
<td>Total credit points</td>
<td>384</td>
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<td>Credit points full-time sem.</td>
<td>48</td>
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<td>Start months</td>
<td>February</td>
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<tr>
<td>Int. Start Months</td>
<td>February</td>
</tr>
<tr>
<td>Deferment</td>
<td>You can defer your offer and postpone the start of your course for one year</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Mr Mike Roggenkamp (Information Technology), Director of Undergraduate Studies, QUT Business School; email: <a href="mailto:bus@qut.edu.au">bus@qut.edu.au</a></td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr John Chen (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Henri Burgers (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)</td>
</tr>
</tbody>
</table>

## Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas:

- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4,SA) and Maths A, B or C (4,SA)).

## International Subject prerequisites

- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4,SA) and Maths A, B or C (4,SA)).

## Minimum english requirements

Students must meet the English proficiency requirements.

<table>
<thead>
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<th>IELTS (International English Language Testing System)</th>
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<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

## Study Areas

IX58 will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate’s parchment. Instead, IX58 will have specialisations. The specialisation areas that will be available for students will include:

- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies


## Pathways to Further Studies

In 2001, an accelerated Honours program was introduced to increase the number of Bachelor of Information Technology students continuing their studies to complete the Honours year. The program allowed selected high achieving students the opportunity to undertake one postgraduate unit in the final semester of their a BIT degree (or double degree) which would be counted both for completion of the degree and towards the Honours program. The program also provided students with the opportunity to commence their Honours studies over the Summer Semester.

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

Business: For BS63 Bachelor of Business (Honours) please click BS63 for details.

## Cooperative Education

The Science and Engineering Faculty's Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energeex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the Cooperative Education Program.

## Important Information for Business Students

QUT Business School rules and procedures are outlined in the Business Undergraduate Guidelines booklet. Other useful information can be found on the Student Services website.
Domestic Course structure
Pathways to Further Studies
For high-achieving double degree students who wish to take further studies may enrol in BS63 Bachelor of Business (Honours).

Study Areas
IX58 will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate's parchment. Instead, IX58 will have specialisations. The specialisation areas that will be available for students will include:

- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies


International Course structure
Pathways to Further Studies
For high-achieving double degree students who wish to take further studies may enrol in BS63 Bachelor of Business (Honours).

Study Areas
IX58 will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate's parchment. Instead, IX58 will have specialisations. The specialisation areas that will be available for students will include:

- Business Process Management
- Data Warehousing
- Digital Societies
- Enterprise Systems
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- Web Technologies


Sample Structure
Semesters

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INB101</td>
<td>Impact of IT</td>
</tr>
<tr>
<td>INB102</td>
<td>Emerging Technology</td>
</tr>
<tr>
<td>INB103</td>
<td>Industry Insights</td>
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<tr>
<td>INB104</td>
<td>Building IT Systems</td>
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<tr>
<td>INB300</td>
<td>Professional Practice in IT</td>
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<tr>
<td>INB301</td>
<td>The Business of IT</td>
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<tr>
<td>INB302</td>
<td>IT Capstone Project</td>
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</table>

INB301 must be completed before enrolling in INB302.

IT Specialist Option Unit
Business Unit
Business Unit

Year 1, Semester 1
- INB101 Impact of IT
- INB102 Emerging Technology
- Business Unit

Year 1, Semester 2
- INB103 Industry Insights
- INB104 Building IT Systems
- Business Unit

Year 2, Semester 1
- IT Breadth Option Unit
- IT Breadth Option Unit
- Business Unit

Year 2, Semester 2
- IT Breadth Option Unit
- IT Breadth Option Unit
- Business Unit

Year 3, Semester 1
- INB201 Scalable Systems Development
- INB201 can only be taken after you have completed a minimum of 36 credit points of breadth units.
- IT Specialist Option Unit
- Business Unit

Year 3, Semester 2
- INB300 Professional Practice in IT
- INB300 and INB301 can only be taken after you have completed a minimum of 192 credit points of study.
- IT Specialist Option Unit
- Business Unit

Year 4, Semester 1
- INB301 The Business of IT
- INB300 and INB301 can only be taken after a student has completed a minimum of 168 credit points of study.
- IT Specialist Option Unit
- Business Unit

Year 4, Semester 2
- INB302 IT Capstone Project

Year 1, Semester 1
- INB101 Impact of IT
- INB102 Emerging Technology
- Business Unit

Year 2, Semester 1
- INB103 Industry Insights
- INB104 Building IT Systems
- Business Unit

Year 3, Semester 1
- INB201 Scalable Systems Development
- Business Unit

Year 4, Semester 1
- INB300 Professional Practice in IT
- Business Unit

Year 4, Semester 2
- INB301 The Business of IT
- Business Unit

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IX58&courseID=15677. CRICOS No.00213J
Bachelor of Corporate Systems Management/Bachelor of Justice

Core Information:
- **Year**: 2012
- **QUT Code**: IX61
- **CRICOS**: 063030F
- **Duration (full-time)**: 4 years
- **OP**: 13
- **Rank**: 73
- **OP Guarantee**: Yes
- **Campus**: Gardens Point
- **Domestic fee (indicative)**: 2012: CSP $3,510 per Semester
- **International fee (indicative)**: 2012: $11,000 per Semester
- **Total credit points**: 248
- **Start months**: February
- **Int. Start Months**: February
- **Deferment**: You can defer your offer and postpone the start of your course for one year
- **Course Coordinator**: Dr Taizan Chan (Science and Engineering), Prof Kerry Carrington (Law)
- **Discipline Coordinator**: Professor Kerry Carrington (Justice); Dr Taizan Chan (Science and Technology) Justice: +61 7 3138 2707; (07) 3138 2782 lawandjustice@qut.edu.au; t.chan@qut.edu.au
- **Domestic Assumed knowledge**: Before you start this course we assume you have sound knowledge in these areas
  - English
  - We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4,SA); Maths A, B or C (4,SA)).

International Subject prerequisites:
- English
  - You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4,SA); Maths A, B or C (4,SA)).

Minimum english requirements:
- Students must meet the English proficiency requirements.
  - IELTS (International English Language Testing System)
    - speaking: 6.0
    - writing: 6.0
    - reading: 6.0
    - listening: 6.0
    - overall: 6.5

Course Overview:
There is an ever-increasing number of criminal acts resulting from the development and use of technology (such as the Internet and mobile devices), therefore, students with a corporate systems management background have the appropriate skills and knowledge required to work on criminology and policing for these areas. Corporate systems management students also gain information systems knowledge which allows them to more effectively manage, secure and control systems and processing in justice departments.

Corporate systems management teaches students how to analyse business needs and devise IT-enabled business systems that deliver the necessary information to the key people via the most appropriate technologies. The justice component comprises a primary major study area in either criminology or policing, which covers skills in criminology, policing, ethics, crime prevention, justice policy and investigations.

Career Outcomes:
Graduates find work in justice areas including corrective services, police, Crime and Misconduct Commission, Department of Justice and Attorney-General, Federal and Family Courts and the Australian Taxation Office.

Professional Recognition:
This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Cooperative Education Program:
The Faculty's Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the Cooperative Education Program.

Further Information:
For further information about this course, please contact the following:

**Science and Engineering Coordinator**
Dr Taizan Chan
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

**Law Coordinator**
Professor Kerry Carrington
Phone: +61 7 3138 7112
Email: lawjs_enquiry@qut.edu.au

Domestic Course structure:
**Course structure**
This course consists of 16 corporate systems management units and 16 justice units with both areas studied in each semester.

The justice component comprises a primary major study area in criminology or policing, which covers skills in criminology, policing, ethics, crime...
Bachelor of Corporate Systems Management/Bachelor of Justice

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IX61&courseID=15651. CRICOS No.00213J

You will also study a range of professional skills as a foundation for your career.

**International Course structure**

**Course structure**

This course consists of 16 corporate systems management units and 16 justice units with both areas studied in each semester.

The justice component comprises a primary major study area in criminology or policing, which covers skills in criminology, policing, ethics, crime prevention, justice policy and investigations.

You will also study a range of professional skills as a foundation for your career.

**Sample Structure**

**Semineters**

- Year 1, Semester 1
  - INB120 Corporate Systems
  - INB103 Industry Insights
  - JSB170 Introduction to Criminology and Policing
  - JSB171 Justice and Society
- Year 2, Semester 1
  - INB123 Project Management Practice
  - BSB115 Management
  - JSB173 Understanding the Criminal Justice System
  - JSB174 Forensic Psychology and the Law
- Year 1, Semester 2
  - INB124 Information Systems Development
  - INB313 Electronic Commerce Site Development
  - Policy Governance and Justice
  - JSB178 replaces JSB271 Policy Governance and Justice
  - Justice Study Area A Unit from list below (Criminology or Policing)

**Year 3, Semester 1**

- INB220 Business Analysis
- INB221 Technology Management
- JSB381 Indigenous Justice in Criminal Justice
- JSB381 replaces JSB371 Indigenous Justice
- Justice Study Area A Unit from list below (Criminology or Policing)

**Year 4, Semester 1**

- INB312 Enterprise Systems Applications
- INB322 Information Systems Consulting
- Justice Study Area A Unit from list below (Criminology or Policing)
- Justice Study Area A Unit from list below (Criminology or Policing)

**Year 4, Semester 2**

- BSB126 Marketing
- INB325 Corporate Systems Management Project
- Justice Study Area A Unit from list below (Criminology or Policing)
- Justice Study Area A Unit from list below (Criminology or Policing)

**Criminology Units:**

Choose eight from the following:

- Crimes of Violence
  - JSB179 replaces JSB177 Crimes of Violence
- Punishment and Penal Policy
  - JSB207 replaces JSB373 Punishment and Penal Policy
- Gender Crime and the Criminal Justice System
  - JSB208 replaces JSB971 Gender Crime and the Criminal Justice System
- Indigenous Justice in a Global Context
  - JSB265 replaces JSB258 Official Corruption

**Policing Units:**

Choose eight from the following:

- Policing Diversity
  - JSB157 replaces JSB257 Policing Diversity
- Transnational Organised Crime and Terrorism
  - JSB209 replaces JSB977 Organised and Transnational Crime
- Drugs and Crime
  - JSB278 replaces JSB376 Information Management and Analysis
- JSB286 replaces JSB285 Marketing
- Corporate Systems Management Project
- Justice Study Area A Unit from list below (Criminology or Policing)
- Justice Study Area A Unit from list below (Criminology or Policing)

**Year 3, Semester 2**

- INB320 Business Process Modelling
- INB321 Business Process Modelling
- Justice Study Area A Unit from list below (Criminology or Policing)
- Justice Study Area A Unit from list below (Criminology or Policing)
- Indigenous Justice in Criminal Justice
- JSB381 replaces JSB371 Indigenous Justice
- Justice Study Area A Unit from list below (Criminology or Policing)
- Justice Study Area A Unit from list below (Criminology or Policing)

**Year 4, Semester 2**

- MGB223 Entrepreneurship and Innovation
- INB322 Information Systems Consulting
- Justice Study Area A Unit from list below (Criminology or Policing)
- Justice Study Area A Unit from list below (Criminology or Policing)

**Crinmonology Units:**

- Choose eight from the following:
  - Crimes of Violence
  - JSB179 replaces JSB177 Crimes of Violence
- Punishment and Penal Policy
  - JSB207 replaces JSB373 Punishment and Penal Policy
- Gender Crime and the Criminal Justice System
  - JSB208 replaces JSB971 Gender Crime and the Criminal Justice System
- Indigenous Justice in a Global Context
  - JSB265 replaces JSB258 Official Corruption

**Policing Units:**

- Policing Diversity
  - JSB157 replaces JSB257 Policing Diversity
- Transnational Organised Crime and Terrorism
  - JSB209 replaces JSB977 Organised and Transnational Crime
- Drugs and Crime
  - JSB278 replaces JSB376 Information Management and Analysis
- JSB286 replaces JSB285 Marketing
- Corporate Systems Management Project
- Justice Study Area A Unit from list below (Criminology or Policing)
- Justice Study Area A Unit from list below (Criminology or Policing)

**Year 4, Semester 2**

- INB320 Business Process Modelling
- INB321 Business Process Modelling
- Justice Study Area A Unit from list below (Criminology or Policing)
- Justice Study Area A Unit from list below (Criminology or Policing)
- Indigenous Justice in Criminal Justice
- JSB381 replaces JSB371 Indigenous Justice
- Justice Study Area A Unit from list below (Criminology or Policing)
- Justice Study Area A Unit from list below (Criminology or Policing)

**Crinmonology Units:**

- Choose eight from the following:
  - Crimes of Violence
  - JSB179 replaces JSB177 Crimes of Violence
- Punishment and Penal Policy
  - JSB207 replaces JSB373 Punishment and Penal Policy
- Gender Crime and the Criminal Justice System
  - JSB208 replaces JSB971 Gender Crime and the Criminal Justice System
- Indigenous Justice in a Global Context
  - JSB265 replaces JSB258 Official Corruption

**Policing Units:**

- Policing Diversity
  - JSB157 replaces JSB257 Policing Diversity
- Transnational Organised Crime and Terrorism
  - JSB209 replaces JSB977 Organised and Transnational Crime
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  - JSB278 replaces JSB376 Information Management and Analysis
- JSB286 replaces JSB285 Marketing
- Corporate Systems Management Project
- Justice Study Area A Unit from list below (Criminology or Policing)
- Justice Study Area A Unit from list below (Criminology or Policing)
# Bachelor of Business / Bachelor of Corporate Systems Management

## Handbook

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## Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas:
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Math A, B or C (4, SA)).

## International Subject prerequisites

- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Math A, B or C (4, SA)).

## Minimum english requirements

Students must meet the English proficiency requirements.

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## Professional Recognition

Corporate Systems Management component: The course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Business component: Students may be eligible for membership to a number of professional bodies depending on choice of major and unit selection. Details on professional recognition can be found under the individual majors of the Bachelor of Business (BS05).

## Course Design

Students are required to complete 384 credit points (32 units) comprised of 192 credit points (16 units) from the Bachelor of Business program and 192 credit points (16 units) from the Bachelor of Corporate Systems Management program which includes an industry based project and an IT options (elective) unit.

## Cooperative Education Program

The Science and Engineering Faculty's Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you're learning in your degree. Companies that QUT's Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the Cooperative Education Program.

## Important Information for Business Students

QUT Business School rules and procedures are outlined in the Business Undergraduate Guidelines booklet. Other useful information can be found on the Student Services website.

## Further Information

For further information about this course, please contact the following:

**Corporate Systems Management Coordinator**
Dr Taizan Chan
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

**Business Coordinator**
Phone: +61 7 3138 2050
Fax: +61 7 3138 1055
Email: bus@qut.edu.au

## Domestic Course structure

### Course Design

Students are required to complete 384 credit points (32 units) comprised of 192 credit points (16 units) from the Bachelor of Business program and 192 credit points (16 units) from the Bachelor of
Corporate Systems Management program which includes an industry based project and an IT options (elective) unit.

Business students complete eight Business School Core Units together with eight Major Core Units from their chosen discipline. (Accountancy students undertake 6 Business School Core Units and 10 Major Core Units to meet professional recognition requirements).

Note the following:

- The units BSB115 Management and BSB126 Marketing are part of the Business component of the IX62.
- The unit MGB223 Entrepreneurship and Innovation is part of the Corporate Systems Management component of the IX62.

International Course structure

Course Design

Students are required to complete 384 credit points (32 units) comprised of 192 credit points (16 units) from the Bachelor of Business program and 192 credit points (16 units) from the Bachelor of Corporate Systems Management program which includes an industry based project and an IT options (elective) unit.

Business students complete eight Business School Core Units together with eight Major Core Units from their chosen discipline. (Accountancy students undertake 6 Business School Core Units and 10 Major Core Units to meet professional recognition requirements).

Note the following:

- The units BSB115 Management and BSB126 Marketing are part of the Business component of the IX62.
- The unit MGB223 Entrepreneurship and Innovation is part of the Corporate Systems Management component of the IX62.

Sample Structure

Semesters

- Year 1, Semester 1
- Year 2, Semester 2
- Year 2, Semester 1
- Year 3, Semester 1
- Year 3, Semester 2
- Year 4, Semester 1
- Year 4, Semester 2

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Bachelor of Business/Bachelor of Games and Interactive Entertainment

Handbook

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<tr>
<td>Course Coordinator</td>
<td>Michael Docherty (Games and Interactive Entertainment); Director of Undergraduate Studies, QUT Business School; email: <a href="mailto:bus@qut.edu.au">bus@qut.edu.au</a></td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr John Chen (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Henri Burgers (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)</td>
</tr>
</tbody>
</table>

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Math A, B or C (4, SA)).

International Subject prerequisites
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Math A, B or C (4, SA)).

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
- speaking: 6.0
- writing: 6.0
- reading: 6.0
- listening: 6.0
- overall: 6.5

Course Design
Students will be required to complete 192 credit points from the Bachelor of Games and Interactive Entertainment; and 192 credit points from the Bachelor of Business course.

Business Component: Students must complete the 96 credit point Business School Core Units in the Business program together with a 96 credit point minor.

Students will undertake the two components of the double degree concurrently.

Cooperative Education Program
The Science and Engineering Faculty’s Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree.

Companies that QUT’s Coop Ed students have worked with include Energec, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the Cooperative Education Program.

Important Information for Business Students
QUT Business School rules and procedures are outlined in the Business Undergraduate Guidelines booklet. Other useful information can be found on the Student Services website.

Unit Incompatibility/Translation Information
Details on the translation and incompatibility of old and new units is located here: Undergraduate Translation Table. If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

Further Information
For further information about this course, please contact the following:

Games and Interactive Entertainment
Michael Docherty
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Business Coordinator
Phone: +61 7 3138 2050
Fax: +61 7 3138 1055
Email: bus@qut.edu.au

Domestic Course structure
Course Design
Students will be required to complete 192 credit points from the Bachelor of Games and Interactive Entertainment; and 192 credit points from the Bachelor of Business course.

Business Component: Students must complete the 96 credit point Business School Core Units in the Business program together with a 96 credit point minor.
Students will undertake the two components of the double degree concurrently.

**International Course structure**

**Course Design**

Students will be required to complete 192 credit points from the Bachelor of Games and Interactive Entertainment; and 192 credit points from the Bachelor of Business course.

**Business Component:** Students must complete the 96 credit point Business School Core Units in the Business program together with a 96 credit point minor.

Students will undertake the two components of the double degree concurrently.

**Sample Structure**

**Semesters**

- **Year 1, Semester 1**
  - Business School Core Unit - See Appendix 1
  - Business School Core Unit - See Appendix 1
  - INB180 Computer Games Studies
  - INB182 Introducing Design

- **Year 1, Semester 2**
  - Business School Core Unit - See Appendix 1
  - Business School Core Unit - See Appendix 1
  - INB181 Introduction to Games Production
  - INB104 Building IT Systems
  
  The ITB002 unit is currently under review; further information will be available in August 2009.

- **Year 2, Semester 1**
  - Business School Core Unit - See Appendix 1
  - Business School Core Unit - See Appendix 1
  - INB103 Industry Insights
  - Games & Interactive Entertain Major Unit

- **Year 2, Semester 2**
  - Business School Core Unit - See Appendix 1
  - Business School Core Unit - See Appendix 1
  - Games & Interactive Entertainment Major Unit
  - Games & Interactive Entertainment Major Unit
  - INB379 Game Project Design

- **Year 3, Semester 1**
  - Business School Major Unit - See Appendix
  - Business School Major Unit - See Appendix
  - Games & Interactive Entertainment Major Unit
  - Games & Interactive Entertainment Major Unit
  - Year 3, Semester 2
  - Business School Major Unit - See Appendix
  - Business School Major Unit - See Appendix
  - Games & Interactive Entertainment Major Unit
  - Games & Interactive Entertainment Major Unit
  - Year 4, Semester 1
  - Business School Major Unit - See Appendix
  - Business School Major Unit - See Appendix
  - Games & Interactive Entertainment Major Unit
  - Games & Interactive Entertainment Major Unit
  - Year 4, Semester 2
  - Business School Major Unit - See Appendix
  - Business School Major Unit - See Appendix
  - INB380 Games Project
Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4,SA) and Maths B (4,SA)).

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4,SA) and Maths B (4,SA)).

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
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<tr>
<th>IELTS (International English Language Testing System)</th>
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<tr>
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<tr>
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<td>overall 6.5</td>
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Course Overview
This double degree gives you the opportunity to use your problem-solving skills to develop realistic games in a competitive gaming environment. A decade ago, people probably wouldn’t have noticed if the cape the game hero was wearing didn’t flap in the wind as he ran, or that the boxes in the corner of the room of the dungeon didn’t fall over when they are run into in a fight. Nowadays, serious gamers notice and demand this type of realism in their virtual worlds. This is where your maths and problem-solving capabilities come into play. Complex formulae are used in games design to create realistic scenes, and knowledge of mathematics will certainly aid your understanding.

Students undertake core units from both their Bachelor of Mathematics and Bachelor of Games and Interactive Entertainment. They can subsequently select from the strands of applied, computational, discrete and financial mathematics; mathematical modelling; operations research; scientific computation and visualisation; statistics and statistical modelling in their Bachelor of Mathematics and from the majors of animation, digital media, game design or software technologies in their Bachelor of Games and Interactive Entertainment degree.

Career Outcomes
A graduate may find work in film and television special effects or in the games and interactive entertainment environments making games look more realistic (such as concept artist).

Professional Recognition
Membership of the Australian Mathematical Society, the Statistical Society of Australia and the Australian Society for Operations Research is available. This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Cooperative Education Program
The Faculty’s Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the Cooperative Education Program.

Further Information
For further information about this course, please contact the following:

Games and Interactive Entertainment Coordinator
Michael Docherty
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Mathematical Sciences Coordinator
Dr Tim Moroney
# Bachelor of Games and Interactive Entertainment/Bachelor of Mathematics

Phone: +61 7 3138 2262  
Email: t.moroney@qut.edu.au

## Financial Support

You should consider applying for an industry-sponsored mathematics bursary to help you financially throughout your studies. For further information visit [Scholarships](#).

## Sample Structure

### Semesters

- **Year 1, Semester 1**
  - INB180: Computer Games Studies
  - INB182: Introducing Design
  - MAB101: Statistical Data Analysis 1
  - MAB120: Algebra and Calculus

- **Year 1, Semester 2**
  - INB181: Introduction to Games Production
  - INB104: Building IT Systems
  - MAB121: Calculus and Differential Equations
  - MAB122: Algebra and Analytic Geometry

- **Year 2, Semester 1**
  - INB103: Industry Insights
  - Games and Interactive Entertain Major Unit
  - MAB220: Computational Mathematics 1
  - MAB312: Linear Algebra

- **Year 2, Semester 2**
  - Games and Interactive Entertain Major Unit
  - Games and Interactive Entertain Major Unit
  - MAB210: Statistical Modelling 1
  - Level 2 or 3 Maths Unit

- **Year 3, Semester 1**
  - Games and Interactive Entertain Major Unit
  - Games and Interactive Entertain Major Unit
  - MAB201: Advanced Calculus
  - Level 2 or 3 Maths Unit

- **Year 3, Semester 2**
  - Games and Interactive Entertain Major Unit
  - Games and Interactive Entertain Major Unit

- **Year 4, Semester 1**
  - INB379: Game Project Design
  - Games and Interactive Entertain Major Unit
  - Level 2 or 3 Maths Unit
  - Level 2 or 3 Maths Unit

- **Year 4, Semester 2**
  - INB380: Games Project
  - Level 2 or 3 Maths Unit
  - Level 2 or 3 Maths Unit

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=IX64&courseID=15652](http://www.student.qut.edu.au/studying/courses/course?courseCode=IX64&courseID=15652). CRICOS No.00213J
Bachelor of Applied Science/Bachelor of Games and Interactive Entertainment

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4,SA) and Maths B (4,SA)). Recommended study: At least one of the sciences. For biochemistry, biotechnology, forensic science, and microbiology majors - Biological Science and Chemistry; for physic major - Maths C.

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4,SA) and Maths B (4,SA)). Recommended study: At least one of the sciences. For biochemistry, biotechnology, forensic science, and microbiology majors - Biological Science and Chemistry; for physic major - Maths C.

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
- speaking: 6.0
- writing: 6.0
- reading: 6.0
- listening: 6.0
- overall: 6.5

IMPORTANT NOTE
This course is currently under review for future offerings (2013 onwards).

Career Outcomes
Knowledge of science underpins more than you might think. As a graduate of the Applied Science/Games and Interactive Entertainment double degree you may find work as a graphic/games designer. You may work on such things as making car games realistic, making people move more realistically using your knowledge of the laws of motion, or creating three-dimensional games.

Professional Recognition
Graduates will satisfy the requirements of membership in the relevant professional body for their chosen science major. See Studyfinder for details on the Bachelor of Applied Science majors. The software technologies major of the Bachelor of Games and Interactive Entertainment is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Cooperative Education Program
The Faculty's Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the Cooperative Education Program.

Unit Incompatibility/Translation Information
Details on the translation and incompatibility of old and new units is located here: Undergraduate Translation Table
If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

Further Information
For further information about this course, please contact the following:

Games and Interactive Entertainment Coordinator
Dr Marion Bateson (as of August 2012)
Phone: +61 7 3138 1269

Science Coordinator
Dr Marion Bateson (as of August 2012)
Phone: +61 7 3138 8822

Email: sef.enquiry@qut.edu.au

Handbook

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<td>Deferment</td>
<td>You can defer your offer and postpone the start of your course for one year</td>
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<tr>
<td>Course Coordinator</td>
<td>Dr Marion Bateson (Science), Michael Docherty (Information Systems)</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Dr Perry Hartfield (Biochemistry Major); Dr Marion Bateson (Biotechnology Major); Associate Professor Dennis Arnold (Chemistry Major); Dr Ian Williamson (Ecology Major); Dr Ian Williamson (Environmental Science Major); Dr Emad Kirjakous (Forensic Science Major); Dr Craig Sloss (Geoscience Major); Dr Christine Knox (Microbiology Major); Dr Stephen Hughes (Physics Major)</td>
</tr>
</tbody>
</table>

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4,SA) and Maths B (4,SA)). Recommended study: At least one of the sciences. For biochemistry, biotechnology, forensic science, and microbiology majors - Biological Science and Chemistry; for physic major - Maths C.

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4,SA) and Maths B (4,SA)). Recommended study: At least one of the sciences. For biochemistry, biotechnology, forensic science, and microbiology majors - Biological Science and Chemistry; for physic major - Maths C.

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
- speaking: 6.0
- writing: 6.0
- reading: 6.0
- listening: 6.0
- overall: 6.5

IMPORTANT NOTE
This course is currently under review for future offerings (2013 onwards).

Career Outcomes
Knowledge of science underpins more than you might think. As a graduate of the Applied Science/Games and Interactive Entertainment double degree you may find work as a graphic/games designer. You may work on such things as making car games realistic, making people move more realistically using your knowledge of the laws of motion, or creating three-dimensional games.

Professional Recognition
Graduates will satisfy the requirements of membership in the relevant professional body for their chosen science major. See Studyfinder for details on the Bachelor of Applied Science majors. The software technologies major of the Bachelor of Games and Interactive Entertainment is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Cooperative Education Program
The Faculty's Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

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Further Information
For further information about this course, please contact the following:

Games and Interactive Entertainment Coordinator
Dr Marion Bateson (as of August 2012)
Phone: +61 7 3138 1269

Science Coordinator
Dr Marion Bateson (as of August 2012)
Phone: +61 7 3138 8822

Email: sef.enquiry@qut.edu.au
Email: m.bateson@qut.edu.au

Dr Perry Hartfield (prior to August 2012)
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Email: p.hartfield@qut.edu.au

**Discipline Coordinators**

**Biochemistry Major**
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Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

**Biotechnology Major**
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Email: m.bateson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

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Associate Professor Dennis Arnold
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Email: d.arnold@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

**Ecology Major**
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Email: j.williamson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

**Environmental Science Major**
Dr Ian Williamson
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Email: j.williamson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

**Forensic Science Major**
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Email: sef.enquiry@qut.edu.au

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Email: c.sloss@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

**Microbiology Major**
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Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

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Dr Stephen Hughes
Phone: +61 7 3138 2327
Email: sw.hughes@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

**Sample Structure**

**Semesters**

- **Year 1, Semester 1**
- **Year 1, Semester 2**
- **Year 2, Semester 1**
- **Year 2, Semester 2**
- **Year 3, Semester 1**
- **Year 3, Semester 2**
- **Year 4, Semester 1**
- **Year 4, Semester 2**

**Code** | **Title**
--- | ---
Year 1, Semester 1 | Applied Science Unit
Year 1, Semester 1 | Applied Science Unit
INB180 | Computer Games Studies
INB182 | Introducing Design
Year 1, Semester 2 | Applied Science Unit
Year 1, Semester 2 | Applied Science Unit
INB181 | Introduction to Games Production
INB104 | Building IT Systems
Year 2, Semester 1 | Applied Science Unit
Year 2, Semester 1 | Applied Science Unit
INB103 | Industry Insights
INB103 | Games & Interactive Entertainment Major Unit
Year 2, Semester 2 | Applied Science Unit
Year 2, Semester 2 | Applied Science Unit
INB103 | Games & Interactive Entertainment Major Unit
INB103 | Games & Interactive Entertainment Major Unit
Year 3, Semester 1 | Applied Science Unit
Year 3, Semester 1 | Applied Science Unit
INB103 | Games & Interactive Entertainment Major Unit
INB103 | Games & Interactive Entertainment Major Unit
Year 4, Semester 2 | Applied Science Unit
Year 4, Semester 2 | Applied Science Unit
INB103 | Games & Interactive Entertainment Major Unit
INB103 | Games & Interactive Entertainment Major Unit
Bachelor of Fine Arts (Interactive and Visual Design) / Bachelor of Information Technology

Handbook

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<tr>
<td>Course Coordinator</td>
<td>Director of Undergraduate Studies (Creative Industries); Mr Mike Roggenkamp (Information Technology)</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Mr Gavin Sade (Interactive and Visual Design) <a href="mailto:ci@qut.edu.au">ci@qut.edu.au</a> (Interactive and Visual Design)</td>
</tr>
</tbody>
</table>

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA) of English and one of the following: Maths A, Maths B or Maths C.

International Subject prerequisites
- English

You must have achieved study of English and one of the following: Maths A, Maths B or Maths C, at a level comparable to Australian Year 12 or in recognised post-secondary studies.

Minimum english requirements
Students must meet the English proficiency requirements.

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<tr>
<th>IELTS (International English Language Testing System)</th>
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<td>6.0</td>
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</table>

Career Outcomes
This double degree will set you up for a career in the rapidly expanding fields of contemporary communication and the application of new media technologies.

Professional Recognition
This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Course Structure
This course is made up of 384 credit points. Each component (i.e. Information Technology, and Interactive and Visual Design) comprises 192 credit points.

Study Areas
The Bachelor of Information Technology will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate’s parchment. Instead, it will have specialisations. The specialisation areas that will be available for students will include:
- Business Process Management
- Data Warehousing
- Digital Environments
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies

Pathways to Further Studies
In 2001, an accelerated Honours program was introduced to increase the number of Bachelor of Information Technology students continuing their studies to complete the Honours year. The program allowed selected high achieving students the opportunity to undertake one postgraduate unit in the final semester of their a BIT degree (or double degree) which would be counted both for completion of the degree and towards the Honours program. The program also provided students with the opportunity to commence their Honours studies over the Summer Semester.

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the redesigned postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

Alternatively, on successful completion of this course you will be eligible to apply for entry into the Bachelor of Fine Arts (Honours), provided you have achieved the required GPA.

Cooperative Education
The Faculty of Science and Engineering's Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Companies that QUT’s Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNiTAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens.
Bachelor of Fine Arts (Interactive and Visual Design) / Bachelor of Information Technology

Sample Structure

**Semesters**

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**International Course structure**

**Course Structure**

This course is made up of 384 credit points. Each component (i.e. Information Technology, and Interactive and Visual Design) comprises 192 credit points.

**Study Areas**

The Bachelor of Information Technology will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate's parchment. Instead, it will have specialisations. The specialisation areas that will be available for students will include:

- Business Process Management
- Data Warehousing
- Digital Environments
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies

**Sample Structure**

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**INTERACTIVE AND VISUAL DESIGN SEMESTER 2 UNIT OPTIONS:**

- One unit (12cp) from the Interactive and Visual Design Semester 2 Unit Options (KIB314 or KIB338)
- KIB314 | Tangible Media |
- KIB338 | Print Media

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=IX69&courseID=15679. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=IX69&courseID=15679. CRICOS No.00213J)
Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Maths B
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)).

International Subject prerequisites
- Maths B
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths B (4, SA)).

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
- speaking: 6.0
- writing: 6.0
- reading: 6.0
- listening: 6.0
- overall: 6.5

IMPORTANT NOTE
As of 2013, this course will only be available for continuing Bachelor of Applied Science/Bachelor of Business students and those students who are commencing in 2013 with advanced standing of 96 credit points of 1st year Bachelor of Applied Science units. New students - please refer to Bachelor of Science/Bachelor of Business. Please contact sef.enquiry@qut.edu.au for any enquiries.

Professional Recognition
Graduates will satisfy the requirements for membership in the relevant professional body for their science major. See Studyfinder for details on the Bachelor of Applied Science majors.

At the end of your Law degree you will have completed the necessary units for admission to legal practice in Australia. To become a practising lawyer you will need to complete further practical legal training (e.g. Graduate Diploma in Legal Practice) and then apply for admission.

Course Design
The course is designed to cover all major areas of the law as well as allowing students to choose any of the following science majors that are offered in the Bachelor of Applied Science (SC01) course: biochemistry, biotechnology, chemistry, ecology, environmental science, forensic science, geoscience, microbiology and physics.

To complete the double degree in a shorter period of time, the co-major will be taken from the law program therefore it is not possible for students to choose any of the co-majors listed under the Bachelor of Applied Science course.

Further Information
For further information about this course, please contact the following:

Science Coordinator
Dr Marion Bateson (as of August 2012)
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au

Dr Perry Hartfield (prior to August 2012)
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au

Law Coordinator
Dr Bill Dixon
Phone: +61 7 3138 2707

Discipline Coordinators
Biochemistry Major
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Biotechnology Major
Dr Marion Bateson
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Chemistry Major
Associate Professor Dennis Arnold
Phone: +61 7 3138 2482
Email: d.arnold@qut.edu.au
Alternative phone contact: +61 7 3138 3066

Graduates will satisfy the requirements for membership in the relevant professional body for their science major.
Bachelor of Applied Science / Bachelor of Laws

8822
Alternative email contact: sef.enquiry@qut.edu.au

Ecology Major
Dr Ian Williamson
Phone: +61 7 3138 2779
Email: j.williamson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Environmental Science Major
Dr Ian Williamson
Phone: +61 7 3138 2779
Email: j.williamson@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Forensic Science Major
Dr Emad Kiriakous
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Geoscience Major
Dr Craig Sloss
Phone: +61 7 3138 2610
Email: c.sloss@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Microbiology Major
Dr Christine Knox
Email: c.knox@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Physics Major
Dr Stephen Hughes
Phone: +61 7 3138 2327
Email: sw.hughes@qut.edu.au
Alternative phone contact: +61 7 3138 8822
Alternative email contact: sef.enquiry@qut.edu.au

Domestic Course structure

Course structure
You will study a combination of science and law units in the first four years, with law units only in the final years. You will also have the opportunity to choose elective units relevant to your career interests.

Course design
The course is designed to cover all major areas of the law as well as allowing students to choose any of the following science majors that are offered in the Bachelor of Applied Science (SC01) course:

- biochemistry
- biotechnology
- chemistry
- ecology
- environmental science
- forensic science
- geoscience
- microbiology
- physics.

To complete the double degree in a shorter period of time, the co-major will be taken from the law program therefore it is not possible for students to choose any of the co-majors listed under the Bachelor of Applied Science course.

International Course structure

Course structure
You will study a combination of science and law units in the first four years, with law units only in the final years. You will also have the opportunity to choose elective units relevant to your career interests.

Course design
The course is designed to cover all major areas of the law as well as allowing students to choose any of the following science majors that are offered in the Bachelor of Applied Science (SC01) course:

- biochemistry
- biotechnology
- chemistry
- ecology
- environmental science
- forensic science
- geoscience
- microbiology
- physics.

To complete the double degree in a shorter period of time, the co-major will be taken from the law program therefore it is not possible for students to choose any of the co-majors listed under the Bachelor of Applied Science course.

Sample Structure

Seminers

Year 1, Semester 1
Year 1, Semester 2
Year 2, Semester 1
Year 2, Semester 2
Year 3, Semester 1
Year 3, Semester 2
Year 4, Semester 1
Year 4, Semester 2
Year 5, Semester 1
Year 5, Semester 2
Year 6, Semester 1
<table>
<thead>
<tr>
<th>Law Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Law Elective</td>
</tr>
<tr>
<td>Law Elective</td>
</tr>
</tbody>
</table>
Bachelor of Applied Science/Bachelor of Mathematics

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas:
- Maths B
- English

Four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths B (4, SA)). Maths C and knowledge of at least one of the sciences. For majors in biochemistry, biotechnology, forensic science, and microbiology - Biology and Chemistry are recommended.

International Subject prerequisites
- Maths B
- English

Four semesters with sound achievement in high school or subsequent study (English (4, SA) and Maths B (4, SA)). Maths C and knowledge of at least one of the sciences. For the majors in biochemistry, biotechnology, forensic science, and microbiology - Biology and Chemistry are recommended. You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
- Speaking: 6.0
- Writing: 6.0
- Reading: 6.0
- Listening: 6.0
- Overall: 6.5

IMPORTANT NOTE
As of 2013, this course will only be available for continuing Bachelor of Applied Science/Bachelor of Mathematics students and those students who are commencing in 2013 with advanced standing of 96 credit points of 1st year Bachelor of Applied Science units. New students - please refer to Bachelor of Science/Bachelor of Mathematics. Please contact sef.enquiry@qut.edu.au for any enquiries.

Course Overview
Studying a double degree in applied science and mathematics will provide you with advanced knowledge and skills that are highly sought after by employers. A stronger training in mathematics and statistics enhances your capabilities in modelling analysis and design.

This four year double degree course integrates studies in one of the science majors with studies in mathematics. The science majors available are biochemistry, biotechnology, chemistry, ecology, environmental science, forensic science, geoscience, microbiology, and physics.

The mathematics component offers studies in core mathematics, applied mathematics, computational mathematics, discrete mathematics, financial mathematics, mathematical modelling, operations research, statistics, statistical modelling, scientific computation and data visualisation.

Professional Recognition
Membership of the Australian Mathematical Society, the Statistical Society of Australia and the Australian Society for Operations Research is available. Graduates will satisfy the requirements for membership in the relevant professional body for their chosen science major.

Financial Support
You should consider applying for an industry-sponsored mathematics bursary to help you financially throughout your studies. For further information visit scholarships.

Further Information
For further information about this course please contact:

**Science Coordinator**
Dr Marion Bateson (as of August 2012)
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au

Dr Perry Hartfield (prior to August 2012)
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au

**Mathematics Coordinator**
Professor Graeme Pettet
Phone: +61 7 3138 5238
Email: g.pettet@qut.edu.au

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=SC20&courseID=15642. CRICOS No.00213J
Bachelor of Applied Science/Bachelor of Mathematics

Sample Structure

Semesters

- **Level 1 Units:**
- **Level 2 and 3 Mathematics Units:**
- **Level 2 and 3 Science Units:**
- **Science Elective Units:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Course Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Students must complete at least (a) 192 credit points (16 twelve credit point units) of Mathematics units and (b) 192 credit points (16 twelve credit point units) of Science units, according to the requirements as follows:</td>
</tr>
</tbody>
</table>

**Level 1 Units:**

Students must complete the following Level 1 Mathematics units:

- MAB101 Statistical Data Analysis 1
- MAB120 Algebra and Calculus
- MAB121 Calculus and Differential Equations
- MAB122 Algebra and Analytic Geometry
- MAB210 Statistical Modelling 1
- MAB220 Computational Mathematics 1

MAB120 is for students who do not have an exit assessment of at least Sound Achievement in four semesters of both Senior Mathematics B and Senior Mathematics C (or equivalent).

Students with Sound Achievement in both Senior Mathematics B and C take a level 2 Mathematics unit option instead of MAB120.

Students must complete the following Level 1 Science Foundation units:

- SCB110 Science Concepts and Global Systems
- SCB111 Chemistry 1
- SCB112 Cellular Basis of Life

In addition, students are required to complete any mandatory units - and should complete all recommended units, specified for the science major selected.

**Level 2 and 3 Mathematics Units:**

At least 120 credit points (10 twelve credit point units) must be taken from Level 2 and Level 3 Mathematics units with at least 48 credit points (4 twelve credit point units) from Level 3 Science units. The science units must meet the advanced level requirements of one of the following majors of the SC01 Bachelor of Applied Science course: Biochemistry; Biotechnology; Chemistry; Ecology; Environmental Science; Forensic Science; Geoscience; Microbiology or Physics.

**Science Elective Units:**

The Mathematics unit (or units) normally undertaken in the first year of SC01 Bachelor of Applied Science is replaced by a Science elective unit (or units). This Science elective unit can be from any level. The level 2 Mathematics unit in the Physics major is replaced by a level 2 Science elective unit.

At least 96 credit points (8 twelve-credit point units) must be taken from Level 2 and Level 3 Science units with at least 48 credit points (4 twelve credit point units) from Level 3 Science units. The science units must meet the advanced level requirements of one of the following majors of the SC01 Bachelor of Applied Science course: Biochemistry; Biotechnology; Chemistry; Ecology; Environmental Science; Forensic Science; Geoscience; Microbiology or Physics.
Wildfires and Human Populations

Martin A. S. Morrison

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=HL52&courseID=15502. CRICOS No.00213J

Bachelor of Applied Science (Honours)

Year: 2012
QUT code: HL52
CRICOS: 009041G
Duration (full-time): 1 year
Duration (part-time domestic): 2 years
Campus: Kelvin Grove

Domestic fee (indicative): 2012: CSP $3,575 per Semester
International fee (indicative): 2012: $11400 per Semester
Total credit points: 96
Credit points full-time sem.: 48
Credit points part-time sem.: 24
Start months: February
Int. Start Months: February
Course Coordinator: hlthhonours@qut.edu.au or 07 3138 4822
Discipline Coordinator: 07 3138 4822 hlthhonours@qut.edu.au

Domestic Entry requirements
Applicants should have completed QUT’s Bachelor of Applied Science/ Bachelor of Health Science in a relevant area or equivalent and have attained a grade point average (GPA) of at least 5 overall in the undergraduate degree.

Application should be made at the end of the final year of the pass degree or within 18 months of completing that degree.

If applicants do not satisfy the normal entry requirements but have demonstrated outstanding performance in only the final year of a degree, or their application is based on other factors including work experience or involvement in research, they may be admitted at the discretion of the Executive Dean.

International Entry requirements
Applicants should have completed QUT’s Bachelor of Applied Science/ Bachelor of Health Science in a relevant area or equivalent and have attained a grade point average (GPA) of at least 5 overall in the undergraduate degree.

Application should be made at the end of the final year of the pass degree or within 18 months of completing that degree.

If applicants do not satisfy the normal entry requirements but have demonstrated outstanding performance in only the final year of a degree, or their application is based on other factors including work experience or involvement in research, they may be admitted at the discretion of the Executive Dean.

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
speaking 6.0
writing 6.0
reading 6.0
listening 6.0
overall 6.5

Dissertation
The dissertation is one 48 credit point unit representing 50 per cent of the program. Preparation and presentation of the dissertation in completed under the guidance of a supervisor and is examined externally.

Electives
Students undertake two 12 credit point electives. At least one elective must be a research elective selected from the nominated list of research electives. The second elective may be selected from any honours or postgraduate program offered by the University, subject to prerequisite requirements and with the approval of the student’s mentor/supervisor and the Course Coordinator. Normally the elective unit is chosen from within the student’s discipline area or from an area that complements or is relevant to the student’s study program. For further information on available units contact the Honours Coordinator.

International Student Entry
International students may enrol only in full-time studies.

Further Information
For more information about this course, please phone on +61 7 3138 4822 or email hlthhonours@qut.edu.au

Domestic Course structure
Course structure
Students complete a dissertation which is one 48-credit-point unit representing 50 per cent of the program. Preparation and presentation of the dissertation is completed under the guidance of a supervisor and is examined externally.

International Course structure
Course structure
Students complete a dissertation which is one 48-credit-point unit representing 50 per cent of the program. Preparation and presentation of the dissertation is completed under the guidance of a supervisor and is examined externally.

Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
<th>Year 1, Semester 1</th>
<th>Year 1, Semester 2</th>
<th>Electives</th>
<th>Dissertation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>HLP101</td>
<td>HLP101</td>
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</tr>
<tr>
<td>Title</td>
<td>Advanced Discipline Readings</td>
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<tr>
<td>Code</td>
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<tr>
<td>Title</td>
<td>Dissertation</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=HL52&courseID=15502. CRICOS No.00213J
<table>
<thead>
<tr>
<th>Bachelor of Applied Science (Honours)</th>
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</thead>
<tbody>
<tr>
<td>Research elective</td>
</tr>
<tr>
<td>HLP103-2</td>
</tr>
<tr>
<td>OR</td>
</tr>
<tr>
<td>Elective</td>
</tr>
<tr>
<td>Year 1, Semester 2</td>
</tr>
<tr>
<td>HLP102</td>
</tr>
<tr>
<td>HLP103-2</td>
</tr>
<tr>
<td>OR</td>
</tr>
<tr>
<td>Elective</td>
</tr>
<tr>
<td>HLP103-3</td>
</tr>
<tr>
<td>HLP103-4</td>
</tr>
<tr>
<td>Electives</td>
</tr>
<tr>
<td>Dissertation</td>
</tr>
</tbody>
</table>

The Dissertation is one unit valued at 48 credit points and represents 50 per cent of the Honours course. Work on the dissertation commences during semester 1 (full-time mode) or semester 2 (part-time mode) and is completed over the course of the program. Preparation and presentation of the Dissertation is completed under the guidance of a supervisor.
Domestic Entry requirements

2012 applications and registrations have closed.
Applications at QTAC and submission of the online questionnaire with QUT for 2012 was due on the 30 November 2011 and have now closed. Late applications and/or questionnaire submissions will not be accepted.

Applicants are required to complete an online questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths A, B or C (4, SA)).

International Entry requirements
The questionnaire is available from Additional entry requirements or phone (07) 3138 2782. Shortlisted registrants may be required to attend an interview in December and will be notified of date and venue after registrations close.

International Subject prerequisites
- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths A, B or C (4, SA)).

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Why Choose This Course
This course is a collaboration between the Faculties of Science and Engineering, and Creative Industries, allowing you to be taught design and technology skills from the experts in their field. Queensland is leading the video game industry with figures showing the State earns more than any other from interactive entertainment. The State’s game developers generate approximately $55 million per year; a 40 per cent slice of Australia’s video games earnings, according to an Australian Bureau of Statistics report. Queensland game companies also employ almost half of the video game industry’s workforce, with Brisbane becoming a hub of games talent, producing games for a worldwide audience.

Popular games titles produced in Queensland include Hellboy, the children’s game Viva Pinata Party Animals and Star Wars: The Force Unleashed.

Course Structure
The 24-unit degree comprises:

- seven (7) core units including a 24 credit-point final-year project
- eight units in your chosen major
- four units in a secondary area of study, also known as your minor
- four optional units where you can choose units from across QUT to complement your studies.

MAJORS
Choose your primary area of study, also known as your major, from:

Animation
This major includes foundation studies in the production of animation and motion graphics; history of animation practices; and programming which includes object orientation, 3D computer graphics and computer generated art. You will develop skills enabling you to work in areas such as computer games, interactive media arts, web applications, sound design, adaptive music and interactive public art works.

Game Design
This major provides you with hands-on game design experience, as well as knowledge of narrative and immersion (drawing the player into the game), architecture and interior design to encourage the creation of interesting and unique models within the virtual environment.

Software Technologies# This major will
prepare you for careers in the game and simulation industries such as software tester, video game tester, game programmer and software tools developer. You will study technological aspects of computer games, games engine and tools development. Companies used to provide ‘in-house’ training for programming skills, however they are now turning to tertiary institutions to provide appropriately qualified graduates.

**MINORS**
- Animation
- Advanced Animation*
- Digital Media
- Entrepreneurship
- Game Design
- Legal Issues
- Marketing
- Mathematics for Games
- Mobile and Network Technologies
- Physics for Games
- Software Technologies
- Advanced Software Technologies*
- Sound Design

#Requirement for this major is an SA or better in Queensland Maths B (or equivalent).

*Only available to those undertaking the animation major.

^Only available to those undertaking the software technologies major.

**Professional Recognition**
As a graduate of the Dean's Scholars Program you will be qualified for professional accreditation and employment in fields relevant to your specialisation.

**Career Outcomes**
Depending on your specialisation, graduates may find employment as a games/digital media programmer, game designer, simulation developer or designer, animator, film and television special effects developer, games/digital media reviewer, video game tester, sound designer, mobile entertainment and communications developer, web developer, digital product strategist, computer systems engineer, multimedia designer, software engineer, or technical officer.

**Your Course**

**Year 1**
In your first year you will undertake five core units, consisting of:
- Computer Games Studies
- Building IT Systems
- Industry Insights
- Introducing Design
- Games Production

You will also undertake three units within your chosen major or minor.

**Year 2**
Second year consists of units within your chosen major and minor together with electives chosen from anywhere in the University.

**Year 3**
In your final year, you will extend your professional and technical skills by participating in a major group project to produce a significant piece of digital work using PC, mobile devices, consoles or virtual reality. You will also undertake a special topic. You will complete your units for your chosen major, minor and electives.

**Note:**
The Faculty may wish to make your project or thesis work available to other students undertaking Honours studies as an exemplar. As the copyright owner of the work you have created, the Faculty will respect your rights and will seek your authorisation to share your work.

**Financial Support**
Domestic students offered a place in the Dean's Scholars Program will have their undergraduate HECS paid by the Faculty and those proceeding to Honours will also receive full HECS support.

International students will have one-third of their tuition fees paid by the faculty for the undergraduate and honours programs.

Students are responsible for all other costs associated with their program.

**Cooperative Education Program**
The Cooperative Education Program gives students the opportunity of 10-12 months paid industry placement during your course where they can integrate real experience with what they are learning in their degree. Companies that QUT's Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments.

Students participating in this program enrol in INS011 Cooperative Education 1 and INS012 Cooperative Education 2 in the second semester of the program. The cooperative education program and its mentoring and assessment requirements make up the required contact and assessment of both units. Eligibility criteria apply. International students are not eligible due to visa restrictions.

Part-time students who are working in a professional position related to the BGIE may be able to use their current employment to meet the criteria for completing INS011 Cooperative Education 1, after completion of 168 credit points in the Bachelor of Games and Interactive Entertainment, subject to meeting eligibility criteria. Further information about this option is available from Student Services, Level 3, O Block Podium, Gardens Point Campus.

Find out more about the Cooperative Education Program.

**Unit**

**Incompatibility/Translation Information**
Details on the translation and incompatibility of old and new units is located here: [Undergraduate Translation Table](http://www.student.qut.edu.au/studying/courses/course?courseCode=IT04&courseID=14990. CRICOS No.00213J)

If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

**Further Information**
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

**Domestic Course structure**

**Course structure**
The 24-unit degree comprises:
- five core units plus a 36-credit-point final-year project (three units equivalent)
- eight units in your chosen major
- four units in a secondary area of study, also known as your minor
- four optional units where you can choose units from across QUT to complement your studies.

**Majors**
Choose your primary area of study, also known as your major, from:
- **Animation**

This major includes foundation studies in the production of animation and motion graphics; history of animation practices; and programming which includes object orientation, 3D computer graphics and computer-generated art. You will develop skills enabling you to work in areas such as computer games, interactive media arts, web applications, sound design, adaptive music and interactive public art works.
Bachelor of Games and Interactive Entertainment - Dean's Scholars Program

Digital Media
This major will prepare you for careers as digital game designers, developers and multimedia architects, making use of the rapid convergence of mixing graphics, video, animation and sound to meet the increasingly complex world of digital entertainment. Organisations are also interested in the strategies that multimedia architects contribute to achieving maximum efficiency and competitiveness, such as integrating multimedia content with information in enterprise software systems and the organisation’s websites.

Game Design
This major provides you with hands-on game design experience, as well as knowledge of narrative and immersion (drawing the player into the game), and game-level design to provide the skills necessary to create interesting and unique game worlds.

Software Technologies
This major will prepare you for careers in the game and simulation industries such as software tester, video game tester, game programmer and software tools developer. You will study technological aspects of computer games, games engine and tools development. Companies used to provide ‘in-house’ training for programming skills; however they are now turning to tertiary institutions to provide appropriately qualified graduates.

Minors
- Animation
- Advanced Animation*
- Digital Media
- Entrepreneurship
- Game Design
- Legal Issues
- Marketing
- Mathematics for Games
- Mobile and Network Technologies
- Physics for Games
- Software Technologies
- Advanced Software Technologies^*
- Sound Design

Your course
Year 1
In your first year you will undertake five core units, consisting of:
- Computer Games Studies
- Building IT Systems
- Industry Insights
- Introducing Design
- Games Production.

You will also undertake three units within your chosen major or minor.

Year 2
Second year consists of units within your chosen major and minor together with optional units chosen from anywhere in the university.

Year 3
In your final year, you will extend your professional and technical skills by participating in a major group project to produce a significant piece of digital work using PC, mobile devices, consoles or virtual reality. You will also undertake a Bachelor of Games and Interactive Entertainment design project. You will complete your units for your chosen major, minor and optional units.

International Course structure
Course structure
The 24-unit degree comprises:
- five core units plus a 36-credit-point final-year project (three units equivalent)
- eight units in your chosen major
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You will also undertake three units within your chosen major or minor.

Year 2
Second year consists of units within your chosen major and minor together with optional units chosen from anywhere in the University.

Year 3
In your final year, you will extend your professional and technical skills by participating in a major group project to produce a significant piece of digital work.
Bachelor of Games and Interactive Entertainment - Dean's Scholars Program

using PC, mobile devices, consoles or virtual reality. You will also undertake a Bachelor of Games and Interactive Entertainment design project. You will complete your units for your chosen major, minor and optional units.

*Only available to those undertaking the animation major.

^Only available to those undertaking the software technologies major.

Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
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<td>INB180</td>
<td>Computer Games Studies</td>
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<td></td>
<td>INB104</td>
<td>Building IT Systems</td>
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<td></td>
<td>INB103</td>
<td>Industry Insights</td>
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<tr>
<td></td>
<td>INB182</td>
<td>Introducing Design</td>
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<td>Introduction to Games Production</td>
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**Course Notes**

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</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=IT04&courseID=14990. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=IT04&courseID=14990. CRICOS No.00213J)
Handbook

Bachelor of Corporate Systems Management - Dean's Scholars Program

Domestic Entry requirements

2012 applications and registrations have closed. Applications at QTAC and submission of the online questionnaire with QUT for 2012 was due on the 30 November 2011 and have now closed. Late applications and/or questionnaire submissions will not be accepted.

Applicants are required to complete an online questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas

- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths A, B or C (4, SA)).

International Entry requirements

Applicants are required to complete a questionnaire.

This course is only available to international students completing Year 12 in Australia.

International Subject prerequisites

- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths A, B or C (4, SA)).

Minimum english requirements

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
<tbody>
<tr>
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<td>listening</td>
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<tr>
<td>overall</td>
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</tr>
</tbody>
</table>

Why Choose This Course

You may have a great idea for new mobile software, a new way to conduct business over the net, or even how a business could out-maneouvre its competitors using information technology. You know the importance of IT and you are excited about what IT can do and either want to develop the next big thing yourself or be able to evaluate, identify, choose and integrate from myriad technologies to arrive at a creative solution. This degree will equip you with the knowledge and skills to realise these aspirations. Whether as a professional within an organisation, as a consultant, or as an entrepreneur, you will be well equipped to take advantage of the demand for business-savvy IT professionals who are able to creatively develop or identify IT solutions to help organisations adapt and grow.

Course Structure

The 24-unit degree comprises:

- 16 core units that build your understanding of the relationships between information, technology, business and people
- eight units in a specialisation of your choice – you could choose to further specialise in information technology, a set of units from a different discipline, or optional units from across QUT to complement your studies.

Specialisation options include:

- adult and community learning
- business systems engineering
- construction management – administration
- creative industries management
- databases
- entrepreneurship
- finance
- forensics
- human resource management
- organisational psychology
- information systems
- information management/information technology management
- international studies
- law
- management
- marketing
- public health

Career Outcomes

Career destinations from this degree are management, analyst or consultant roles such as business analyst, project manager, process analyst, program manager, or data manager in fields
Bachelor of Corporate Systems Management - Dean's Scholars Program

This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

As a graduate of the Dean's Scholars Program you will be qualified for professional accreditation and employment in fields relevant to your specialisation.

Your Course

Year 1
In your first semester, you will complete the first four core units:
- Impact of IT
- Industry Insights
- Corporate Systems
- Organisational Databases.

In your second semester, you will complete three more core units:
- Management, People and Organisations
- Project Management Practice
- Information Systems Development.

You will also choose your specialisation and complete your first specialisation unit, or start your electives.

Year 2
In first semester, you will complete three core units:
- Business Analysis
- Technology Management
- Creating New Enterprises.

You will also complete your second specialisation unit or electives.

In second semester, you will complete two core units:
- Marketing
- Web Sites for Electronic Commerce.

You will also complete two more specialisation units or electives.

Year 3
In your first semester, you will complete two core units:
- Enterprise Systems Applications
- Information Systems Consulting.

You will also complete two more specialisation units or electives.

In your second semester, you will complete the last two core units:
- Business Process Modelling
- Corporate Systems Management Project (your final-year showcase project).

You will also complete the last two units of your specialisation or electives.

Note:
The Faculty may wish to make your project or thesis work available to other students undertaking Honours studies as an exemplar. As the copyright owner of the work you have created, the Faculty will respect your rights and will seek your authorisation to share your work.

Financial Support
Domestic students offered a place in the Dean's Scholars Program will have their undergraduate HECS paid by the Faculty and those proceeding to Honours will also receive full HECS support.

International students will have one-third of their tuition fees paid by the faculty for the undergraduate and honors programs.

Students are responsible for all other costs associated with their program.

Cooperative Education Program
The Cooperative Education Program gives students the opportunity of 10-12 months paid industry placement during your course where they can integrate real experience with what they are learning in their degree. Companies that QUT's Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments.

Students participating in this program enrol in INS011 Cooperative Education 1 and INS012 Cooperative Education 2 in the second semester of the program. The cooperative education program and its mentoring and assessment requirements make up the required contact and assessment of both units. Eligibility criteria apply. International students are not eligible due to visa restrictions.

Part-time students who are working in a professional position related to the BGIE may be able to use their current employment to meet the criteria for completing INS011 Cooperative Education 1, after completion of 168 credit points in the Bachelor of Games and Interactive Entertainment, subject to meeting eligibility criteria. Further information about this option is available from Student Services, Level 3, O Block Podium, Gardens Point Campus.

Find out more about the Cooperative Education Program.

Unit Incompatibility/Translation Information
Details on the translation and incompatibility of old and new units is located here:
Undergraduate Translation Table
If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

Intermediate Level Electives
If you have not completed ITB008 you will need to replace it with one of the following intermediate level elective units.
- INB120 Corporate Systems
- INB220Business Analysis
- INB255 Security
- INB272 Interaction Design
Or, an INB300 level unit as approved by the course coordinator

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

Domestic Course structure
Your course
Year 1
In your first semester, you will complete the first four core units:
- Impact of IT
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In your second semester, you will complete three core units:
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- Information Systems Development.

You will also choose your specialisation and complete your first specialisation unit, or start your electives.

Year 2
In first semester, you will complete three core units:
- Business Analysis
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- Creating New Enterprises.

You will also complete your second specialisation unit or electives.

In second semester, you will complete two core units:
- Marketing
- Web Sites for Electronic Commerce.

You will also complete two more specialisation units or electives.

Year 3
In your first semester, you will complete two core units:
- Enterprise Systems Applications
- Information Systems Consulting.

You will also complete two more specialisation units or electives.

In your second semester, you will complete the last two core units:
- Business Process Modelling
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Year 2
In first semester, you will complete three core units:
- Business Analysis
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- Creating New Enterprises.

You will also complete your second specialisation unit or electives.

In second semester, you will complete two core units:
- Marketing
- Web Sites for Electronic Commerce.

You will also complete two more specialisation units or electives.
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- Marketing
- Web Sites for Electronic Commerce.

You will also complete two more specialisation units or electives.

**Year 3**

In your first semester, you will complete two core units:

- Enterprise Systems Applications
- Information Systems Consulting.

You will also complete two more specialisation units or electives.

In your second semester, you will complete the last two core units:

- Business Process Modelling
- Corporate Systems Management Project (your final-year showcase project).

You will also complete the last two units of your specialisation or electives.

### Sample Structure

**Semesters**

- **Year 1, Semester 1**
- **Year 1, Semester 2**
- **Year 2, Semester 1**
- **Year 2, Semester 2**
- **Year 3, Semester 1**
- **Year 3, Semester 2**
- **Year 3, Summer**

You will also complete two more specialisation units or electives.

In your second semester, you will complete the last two core units:

- Business Process Modelling
- Corporate Systems Management Project (your final-year showcase project).

You will also complete the last two units of your specialisation or electives.

### International Course structure

#### Your course

**Year 1**

In your first semester, you will complete the first four core units:

- Impact of IT
- Industry Insights
- Corporate Systems
- Organisational Databases.

You will also complete two more specialisation units or electives.

In your second semester, you will complete three more core units:

- Management, People and Organisations
- Project Management Practice
- Information Systems Development.

You will also choose your specialisation and complete your first specialisation unit, or start your electives.

**Year 2**

In first semester, you will complete three core units:

- Business Analysis
- Technology Management
- Creating New Enterprises.

You will also complete your second specialisation unit or electives.

In second semester, you will complete two core units:

- Marketing
- Web Sites for Electronic Commerce.

You will also complete two more specialisation units or electives.

**Year 3**

In your first semester, you will complete two core units:

- Enterprise Systems Applications
- Information Systems Consulting.

You will also complete two more specialisation units or electives.

In your second semester, you will complete the last two core units:

- Business Process Modelling
- Corporate Systems Management Project (your final-year showcase project).

You will also complete the last two units of your specialisation or electives.

#### Postgraduate IT Elective

**Year 3, Semester 2**

- INN401 Honours Dissertation 1
- INN700 Introduction To Research
- INN701 Advanced Research Topics
- Postgraduate IT Elective

**Year 3, Summer**

- INN402 Honours Dissertation 2
- INN403 Honours Dissertation 3
- INN404 Honours Dissertation 4

**Block B: Complimentary Studies**

Students select 84cp comprising of IT unit set(s) or from those offered by other Faculties at QUT. Alternatively, students may undertake eight elective units with the approval of the Course Coordinator.

**Banking and Finance**

- BSB113 Economics
- BSB123 Data Analysis
- EFB201 Financial Markets
- EFB210 Finance 1
- EFB222 Quantitative Methods For Economics and Finance
- EFB223 Economics 2
- EFB307 Finance 2
- EFB312 International Finance

**Creative Industries Management**

- KTB210 Creative Industries Management
- KTB211 Creative Industries Events and Festivals
- KTB104 Performance Innovation
- KTB207 Staging Australia

**Construction Management - Administration**

- UDB101 Stewardship of Land
- UDB104 Urban Development Economics
- UDB110 Residential Construction and Engineering
Bachelor of Corporate Systems Management - Dean's Scholars Program

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>MGB207</td>
<td>Human Resource Issues and Strategy</td>
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<td>MGB200</td>
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<td>MGB314</td>
<td>Organisational Consulting and Change</td>
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<td>MGB309</td>
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<td>MGB324</td>
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Specialisation - IT (Digital Environments)

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<td>INB210</td>
<td>Databases</td>
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<td>Programming</td>
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<td>INB340</td>
<td>Database Design</td>
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<td>INB345</td>
<td>Mobile Devices</td>
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<td>INB346</td>
<td>Enterprise 2.0</td>
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<td>INB347</td>
<td>Web 2.0 Applications</td>
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<td>INB335</td>
<td>Information Resources</td>
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Intermediate Level Electives

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<td>Business Analysis</td>
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<td>INB255</td>
<td>Security</td>
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<td>INB272</td>
<td>Interaction Design</td>
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</table>

Or, an INB300 level unit as approved by the course coordinator.
Minimum English Requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

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<tr>
<th>Speaking</th>
<th>Writing</th>
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<th>Listening</th>
<th>Overall</th>
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</tbody>
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Financial Support
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The Faculty’s Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you’re learning in your degree. Students wishing to participate in the Cooperative Education Program should be aware that they will not receive financial support as a Dean’s Scholar for the duration of the placement.

Find out more about the Cooperative Education Program.

New Unit Translations/Incompatibility Table
Details on the translation and incompatibility of old and new units is located here:
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Professional Recognition
As a graduate of the Dean’s Scholars Program you will be qualified for professional accreditation and employment in fields relevant to your specialisation.

Further Information
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Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Sample Structure Semesters

<table>
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<tr>
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<td>Programming</td>
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<td>INB271</td>
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Year 2, Semester 1
Block B or Block C Unit
Block B or Block C Unit
Block B or Block C Unit
Block B or Block C Unit
Block B or Block C Unit

Year 2, Semester 2
INB301  | The Business of IT
Block B or Block C Unit
Block B or Block C Unit
Block B or Block C Unit
Block B or Block C Unit

Year 2, Summer
INB302  | IT Capstone Project
Undertaken over four (4) weeks.

Year 3, Semester 1
Block B or Block C Unit
Block B or Block C Unit
Block B or Block C Unit
Block B or Block C Unit
INN Unit

Year 3, Semester 2
INN700  | Introduction To Research
INN Elective
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>INN Elective</td>
<td>Honours Dissertation 1</td>
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<tr>
<td>INN401</td>
<td>Honours Dissertation 2</td>
</tr>
<tr>
<td>INN402 Year 3, Summer</td>
<td>Honours Dissertation 3</td>
</tr>
<tr>
<td>INN403</td>
<td>Honours Dissertation 4</td>
</tr>
<tr>
<td>INN404</td>
<td>Honours Dissertation 4</td>
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</table>
Bachelor of Information Technology - Dean's Scholars Program

Handbook

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
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<tbody>
<tr>
<td>QUT code</td>
<td>IT23</td>
</tr>
<tr>
<td>CRICOS</td>
<td>012656E</td>
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<td>Duration (full-time)</td>
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<td>Rank</td>
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<td>Campus</td>
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<td>International fee (indicative)</td>
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<tr>
<td>Total credit points</td>
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<td>Start months</td>
<td>February Fixed closing date - 30 November</td>
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<tr>
<td>Int. Start Months</td>
<td>February Fixed closing date - 30 November</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Richard Thomas</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td></td>
</tr>
</tbody>
</table>

Domestic Entry requirements

2012 applications and registrations have closed. Applications at QTAC and submission of the online questionnaire with QUT for 2012 was due on the 30 November 2011 and have now closed. Late applications and/or questionnaire submissions will not be accepted.

Applicants are required to complete an online questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas
- English

We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (English (4, SA) and Maths A, B or C (4, SA)).

International Entry requirements

Must be a current Year 12 student or students returning from a gap year who completed their Year 12 education in Australia; successful questionnaire; an interview may be required.

Shortlisted registrants may be required to attend an interview in December and will be notified of date and venue after registrations close.

International Subject prerequisites

- English

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies (English (4, SA) and Maths A, B or C (4, SA)).

Minimum english requirements

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
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<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
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</table>

Financial support

Domestic students offered a place in the Dean's Scholars Program will have their undergraduate HECS paid by the Faculty and those proceeding to Honours will also receive full HECS support.

International students will have one-third of their tuition fees paid by the faculty for the undergraduate and honours programs.

Students are responsible for all other costs associated with their program.

Cooperative Education Program

The Faculty's Cooperative Education Program gives you the opportunity of 6 or 12 months paid industry placement during your course where you can integrate real experience with what you are learning in your degree.

Find out more about the Cooperative Education Program.

Professional Recognition

As a graduate of the Dean's Scholars Program you will be qualified for professional accreditation and employment in fields relevant to your specialisation.

Unit Incompatibility/Translation Information

Details on the translation and incompatibility of old and new units is located here:  
Undergraduate Translation Table
If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code

Further Information

Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

Domestic Course structure

Design your own degree

The Bachelor of Information Technology provides you with the practical skills and theoretical knowledge to become an effective professional. The 24-unit degree comprises:
- 8 core units - 4 introductory units in
Your course

Year 1
In your first semester you will explore how information technology has changed the world and what the possibilities are for the future. You will look at the details of information, computing and communication technologies to understand how they work. You will take part in hands-on projects developing small information technology systems.

Core units for Year 1:
- Impact of IT
- Emerging Technology
- Industry Insights
- Building IT Systems.

In Semester 2 you will undertake three breadth units and one optional unit.

Year 2
In your second year you will take part in a collaborative team setting, working on small projects that integrate the skills you learnt during Year 1. You will also start studying more advanced units in your chosen field of specialisation.

Core unit for Year 2:
- Scalable Systems Development.

Throughout Year 2 you will undertake one breadth unit, two specialisation units and four optional units.

Year 3
In third year you will be able to undertake workplace experience opportunities offered by the Faculty, while earning credit towards your degree. You will continue studying in your area of specialisation. In your final semester you will develop a major project, which will showcase what you have learnt during your degree and provide you with a key part of your portfolio when seeking a job.

Core units for Year 3:
- Professional Practice in IT
- The Business of IT
- IT Capstone Project.

Throughout Year 3 you will undertake two specialisation units and three optional units.

International Course structure

Design your own degree
The Bachelor of Information Technology provides you with the practical skills and theoretical knowledge to become an effective professional. The 24-unit degree comprises:
- 8 core units - 4 introductory units in first semester to introduce you to the breadth of information technology and its relationship to modern society. Then there are 4 advanced units spread over the rest of your degree program to develop your professional skills in preparation for your career.
- 4 breadth units (intermediate level units) - these units give you broad technical experience across a range of fields in information technology. They also give you an introduction to choose the specialisation you wish to focus on.
- 4 specialisation units (advanced level units) - these units allow you to focus on your chosen area of study, or you may choose to continue to broaden your information technology skills. This option allows you to study across a selection of study areas rather than focusing on one specialisation.
- 8 optional units - these units allow you to customise your degree by studying in another professional discipline (for example, business, health, or science). Or you may choose to gain further depth in other areas of information technology.

Sample Structure

Semesters

<table>
<thead>
<tr>
<th>Year 1, Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>INB101</td>
</tr>
<tr>
<td>INB102</td>
</tr>
<tr>
<td>INB103</td>
</tr>
</tbody>
</table>

Note: Year 2, Semester 2
- Year 3, Semester 1
- Year 3, Semester 2
- Year 3, Summer
### Bachelor of Information Technology - Dean's Scholars Program

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Year, Semester</th>
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<tbody>
<tr>
<td>INB104</td>
<td>Building IT Systems</td>
<td>Year 1, Semester 2</td>
</tr>
<tr>
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<td>Breadth Option</td>
<td>Breadth Option</td>
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<tr>
<td></td>
<td>Complementary Studies unit (Elective)</td>
<td>Breadth Option</td>
</tr>
</tbody>
</table>

**Note:**

From Year 2-Semester 1 to Year 3-Semester 1, students may vary which semester they undertake their Specialisation Options or Complementary Studies units.

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Year, Semester</th>
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<tbody>
<tr>
<td>INB201</td>
<td>Scalable Systems Development</td>
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<tr>
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<td>Specialisation Option</td>
<td>Complementary Studies unit (Elective)</td>
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</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year, Semester</th>
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<tbody>
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<td>INB301</td>
<td>The Business of IT</td>
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<tr>
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<td>Specialisation Option</td>
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<td></td>
<td>Complementary Studies unit (Elective)</td>
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<th>Course Title</th>
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<tbody>
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<td>INB300</td>
<td>Professional Practice in IT</td>
<td>Year 3, Semester 1</td>
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<tr>
<td>INB302</td>
<td>IT Capstone Project</td>
<td>IT Capstone Project</td>
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<td>Postgraduate IT Unit</td>
<td>Postgraduate IT Unit</td>
</tr>
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<td>INN401</td>
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<tr>
<td>INN402</td>
<td>Honours Dissertation 2</td>
<td>INN700 Introduction To Research</td>
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<td>INN403</td>
<td>Honours Dissertation 3</td>
<td>INN701 Advanced Research Topics</td>
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<tr>
<td>INN404</td>
<td>Honours Dissertation 4</td>
<td>INN403 Honours Dissertation 3</td>
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</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=IT23&courseID=15012. CRICOS No.00213](http://www.student.qut.edu.au/studying/courses/course?courseCode=IT23&courseID=15012. CRICOS No.00213)
Bachelor of Information Technology (Honours)

<table>
<thead>
<tr>
<th>Handbook</th>
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<tbody>
<tr>
<td><strong>Domestic Entry requirements</strong></td>
<td></td>
</tr>
</tbody>
</table>
| **Entry Requirements** | Applicants must have:  
• a bachelor degree from QUT or its equivalent, completed within 18 months prior to enrolment, with a minimum grade point average of 5 (on a 7-point scale) or its equivalent, or  
• demonstrated outstanding performance in the final year of the degree, or  
• work experience or research considered appropriate by the course coordinator.  |
| **International Entry requirements** |  |
| **Entry Requirements** | Applicants must have:  
• a bachelor degree from QUT or its equivalent, completed within 18 months prior to enrolment, with a minimum grade point average of 5 (on a 7-point scale) or its equivalent, or  
• demonstrated outstanding performance in the final year of the degree, or  
• work experience or research considered appropriate by the course coordinator.  |
| **Minimum english requirements** | Students must meet the English proficiency requirements.  |
| **IELTS (International English Language Testing System)** | speaking 6.0  
writing 6.0  
reading 6.0  
listening 6.0  
overall 6.5  |
| **Why Do Honours** | The honours program will expand your career options through exposure to the world of research. Honours is also the perfect pathway to an academic career through PhD studies, where you can become an independent researcher in your own right.  |
|  | An honours degree signals to potential employers that you are someone with exceptional ability, motivation and commitment to your field. It gives you the chance to integrate the practical and conceptual knowledge gained through your degree. As an honours graduate, you can clearly demonstrate an ability to undertake rigorous independent research. These skills are unique to the honours program and will differentiate you from your peers in the employment market.  |
| **Course Design** | The core of the honours program is a 36, 48, or 60 credit-point project (depending on your study area) that will provide students with the opportunity to learn about research by conducting a research project with an experienced researcher who acts as both supervisor and mentor. Students will learn the types of processes, creativity and analytical thinking that lead to scientific and technological advances and how to communicate such findings in a rigorous, systematic manner.  |
| **Career Outcomes** | Information technology is an integral part of all commercial, industrial, government, social and personal activities. In the long term, your career opportunities are unbounded. Some information technology graduates retain a technical focus in roles such as web developer, database manager, network administrator, electronic commerce developer, data communications specialist, software engineer, systems programmer, computer scientist, systems analyst or programmer. Others evolve into domain experts as chief technology officers, chief information officers, managers, executives, business analysts, entrepreneurs or researchers. Graduates have the opportunity to achieve the highest levels of their profession.  |
| **Professional Recognition** | You will qualify for professional accreditation and employment in the field relevant to the specialisations chosen.  |
| **Pathways** | You have the opportunity to choose a study pathway:  
• professional pathway – you will learn how to think strategically, identify opportunities and solve problems that we don’t even know are problems yet. This pathway will enable you to acquire the business and IT skills to have a career as an IT professional within any industry.  
• research pathway – if you are interested in shaping the future of the IT industry you can pursue a research career. You will have opportunities to work with researchers on projects and progress on to an honours degree. You will have access to world-leading researchers within the Faculty.  
• entrepreneurship pathway – you now have the opportunity to gain the entrepreneurial skills to develop an idea.  |
into a commercial opportunity. You will be able to take advantage of the Faculty’s close relationship with local technology entrepreneurs to learn from their experiences.

In 2001, the Faculty introduced an accelerated Honours program to increase the number of Bachelor of Information Technology students continuing their studies to complete the Honours year. The program allowed selected high achieving students the opportunity to undertake one postgraduate unit in the final semester of the Bachelor of Information Technology which would be counted both for completion of the degree and towards Honours. The program also provided students with the opportunity to commence their Honours studies over the Summer Semester.

The Dean’s Scholars program was introduced in Semester 1, 2006. This program provides a scholarship for OP 1 and 2 students throughout their Bachelor and Honours degrees. Students in the program are required to maintain a high GPA to continue to qualify for the scholarship each semester. Students in the Dean’s Scholars program will be able to take advantage of the Accelerated Honours program. Students in the Dean’s Scholars program will have an option to follow an accelerated pathway through the Bachelor of Information Technology, allowing them to complete the Bachelor of Information Technology course plus the Bachelor of Information (Honours) course in a total of three years.

To encourage students to enter the Dean’s Scholars program, domestic students have their undergraduate HECS paid by the Faculty and those proceeding to Honour’s level will also receive full HECS support. International students who have completed a Year 12 education in Australia and meet the entry requirements for the program will have a third of their tuition fees paid by the Faculty for the undergraduate and Honours program.

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete IT23 with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

### Important Information

#### Duration

Except in special circumstances as approved by the Dean, the requirements for an Honours degree must be completed within two successive years following first enrolment.

#### Unsatisfactory Progress

Failure to make satisfactory progress with either the course work component of an Honours program or with the dissertation, or both, may lead to exclusion from the program.

Unsatisfactory progress consists of:
- receiving a grade of less than 4 (or Satisfactory, where applicable) in one unit of the course work component.
- failure to make sufficient progress with the dissertation component, in the opinion of the Dean.

A student who is excluded from or otherwise fails to complete an Honours program will not normally be readmitted to that program.

#### Assessment

The minimum grade which may be credited towards an Honours degree is 4 (or Satisfactory, where applicable). A minimum of three copies of a dissertation should be presented to the supervisor for examination. Dissertations should be temporarily bound in order to facilitate the making of any revisions and editorial changes required by the examiners before final printing and binding.

Dissertations will be examined by an examining committee appointed by the Dean and consisting of a least two examiners, one of whom may be external to the University. The supervisor of the candidate’s work may be a member of the committee but may not chair the committee or act as the primary examiner.

#### Determination of Level of Honours Awards

The Faculty Academic Board will determine the level of Honours awarded.

Honours degrees will be awarded at the following levels after account is taken of the candidate’s performance in all units and appropriate weight applied to the dissertation:

- **Honours 1** - First Class Honours
- **Honours 2A** - Second Class Honours, Division A
- **Honours 2B** - Second Class Honours, Division B
- **Honours 3** - Third Class Honours

The level of Honours award is to be determined by guidelines, as follows:

- **Honours 1** - GPA 6.50-7.00, or equivalent
- **Honours 2A** - GPA 5.50-6.49, or equivalent
- **Honours 2B** - GPA 4.50-5.49, or equivalent
- **Honours 3** - GPA 4.00-4.49, or equivalent

A candidate who does not reach the standard required for Honours 3 remains with a pass degree.

#### Note:

*The Faculty may wish to make your project or thesis work available to other students undertaking Honours studies as an exemplar. As the copyright owner of the work you have created, the Faculty will respect your rights and will seek your authorisation to share your work.*

### Further Information

For further information about this course, please contact:

Dr Jinglan Zhang

Phone: +61 7 3138 8822

Email: sef.enquiry@qut.edu.au

### Domestic Course structure Pathways

You have the opportunity to choose a study pathway:

**Professional pathway**

You will learn how to think strategically, identify opportunities and solve problems that we don’t even know are problems yet. This pathway will enable you to acquire the business and IT skills to have a career as an IT professional within any industry.

**Research pathway**

If you are interested in shaping the future of the IT industry you can pursue a research career. You will have opportunities to work with researchers on projects and progress on to an honours degree. You will have access to world-leading researchers within the Faculty.

**Entrepreneurship pathway**

You now have the opportunity to gain the entrepreneurial skills to develop an idea into a commercial opportunity. You will be able to take advantage of the Faculty’s close relationship with local technology entrepreneurs to learn from their experiences.

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**International Course structure**

**Pathways**

You have the opportunity to choose a study pathway:

**Professional pathway**

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**Sample Structure**

**Seminars**

- **FULL TIME**
  - Year 1, Semester 1
  - INN700 Introduction To Research
  - INN401 Honours Dissertation 1
  - INN701 Advanced Research Topics

- **PART TIME**
  - Year 1, Semester 1
  - INN700 Introduction To Research
  - INN401 Honours Dissertation 1
  - Year 1, Semester 2
  - INN402 Honours Dissertation 2
  - INN403 Honours Dissertation 3
  - INN404 Honours Dissertation 4

- **ELECTIVE**
  - Year 1, Semester 1
  - INN700 Introduction To Research
  - INN401 Honours Dissertation 1
  - Year 1, Semester 2
  - INN402 Honours Dissertation 2
  - INN403 Honours Dissertation 3
  - INN404 Honours Dissertation 4

- **ELECTIVE**
  - Year 2, Semester 1
  - INN401 Honours Dissertation 3
  - INN402 Honours Dissertation 4

- **ELECTIVE**
  - Year 2, Semester 2
  - INN403 Honours Dissertation 3
  - INN404 Honours Dissertation 4

Elective Units - Students should choose advanced level postgraduate units. Normally units are undertaken in the area of the student’s undergraduate major. Students wishing to enrol in a unit that is not of an advanced level should contact the Course Coordinator.
INN701 enrolment - Though students are required to enrol in INN701 in their first semester of honours, the unit offers flexible enrolment through (a) a choice of modules on offer, and through (b) the option of undertaking the minimum necessary number of modules across more than one semester (see INN701 week 1 document for further details on enrolment flexibility).

Full-time students should be aware that many electives may be offered evenings only.
BACHELOR OF INFORMATION TECHNOLOGY (HONOURS) - ACCELERATED PROGRAM

**Minimum english requirements**
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</tr>
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<tbody>
<tr>
<td>speaking</td>
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<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Overview**
The 'Accelerated Honours' program has been structured to provide an incentive for high achieving IT undergraduate students to continue into the Honours Program. Benefits of this accelerated program are:
* you are approved to undertake a concurrent enrolment in the final semester of your IT undergraduate course, that is to say, the student may enrol in undergraduate units and Honours.
* 12 credit points will be credited towards Block 3 electives in your IT undergraduate course on the basis of coursework studies completed in IT29 Honours.
* you are able to complete a four year program within 3 1/2 years.

Through a combination of research and advanced coursework units students can pursue specialised studies in a particular area of information technology. The course offers the opportunity to develop research and development skills, work on cutting-edge technology, and have access to specialist hardware and software. As a successful Honours graduate you are eligible to start a doctoral program, and can expect to obtain a research or teaching position. A wider range of career opportunities are available.

Please note: tuition fees normally apply for Summer enrolment.

**Why Do Honours**
The Honours program will expand your career options through exposure to the world of research. Honours is also the perfect pathway to an academic career through PhD studies, where you can become an independent researcher in your own right.

An honours degree signals to potential employers that you are someone with exceptional ability, motivation and commitment to your field. It gives you the chance to integrate the practical and conceptual knowledge gained through your degree. As an honours graduate, you can clearly demonstrate an ability to undertake rigorous independent research. These skills are unique to the honours program and will differentiate you from your peers in the employment market.

**Career Outcomes**
Information technology is an integral part of all commercial, industrial, government, social and personal activities. In the long term, your career opportunities are unbounded. Some information technology graduates retain a technical focus in roles such as web developer, database manager, network administrator, electronic commerce developer, data communications specialist, software engineer, systems programmer, computer scientist, systems analyst or programmer. Others evolve into domain experts as chief technology officers, chief information officers, managers, executives, business analysts, entrepreneurs or researchers. Graduates have the opportunity to achieve the highest levels of their profession.

**Professional Recognition**
You will qualify for professional accreditation and employment in the field relevant to the specialisations chosen.

**Important Information**
Assessment
The minimum grade which may be credited towards an Honours degree is 4 (or Satisfactory, where applicable). A minimum of three copies of a dissertation should be presented to the supervisor for examination. Dissertations should be temporarily bound in order to facilitate the making of any revisions and editorial changes required by the examiners before final printing and binding. Dissertations will be examined by an examining committee appointed by the Dean and consisting of a least two examiners, one of whom may be external to the University. The supervisor of the candidate’s work may be a member of the committee but may not chair the committee or act as the primary examiner.

Determination of Level of Honours Awards
The Faculty Academic Board will determine the level of Honours awarded.

Honours degrees will be awarded at the following levels after account is taken of
the candidate's performance in all units and appropriate weight applied to the dissertation:

Honours 1 - First Class Honours
Honours 2A - Second Class Honours, Division A
Honours 2B - Second Class Honours, Division B
Honours 3 - Third Class Honours

The level of Honours award is to be determined by guidelines, as follows:

Honours 1 - GPA 6.50-7.00, or equivalent
Honours 2A - GPA 5.50-6.49, or equivalent
Honours 2B - GPA 4.50-5.49, or equivalent
Honours 3 - GPA 4.00-4.49, or equivalent

A candidate who does not reach the standard required for Honours 3 remains with a pass degree.

Unsatisfactory Progress

Failure to make satisfactory progress with either the course work component of an Honours program or with the dissertation, or both, may lead to exclusion from the program.

Unsatisfactory progress consists of:
- receiving a grade of less than 4 (or Satisfactory, where applicable) in one unit of the course work component.
- failure to make sufficient progress with the dissertation component, in the opinion of the Dean.

A student who is excluded from or otherwise fails to complete an Honours program will not normally be readmitted to that program.

Note:
The Faculty may wish to make your project or thesis work available to other students undertaking Honours studies as an exemplar. As the copyright owner of the work you have created, the Faculty will respect your rights and will seek your authorisation to share your work.

Further Information

For further information about this course, please contact:

Dr Jinglan Zhang
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure

The Accelerated Honours program has been structured to provide an incentive for high achieving IT undergraduate students to continue into the Honours Program. Benefits of this accelerated program are:
- you are approved to undertake a concurrent enrolment in the final semester of your IT undergraduate course. That is to say, you may enrol in undergraduate units and Honours
- 12 credit points will be credited towards Block 3 electives in your IT undergraduate course on the basis of coursework studies completed in IT29 Honours
- you are eligible to complete a 4 year program within 3 1/2 years.

Through a combination of research and advanced coursework units students can pursue specialised studies in a particular area of information technology. The course offers the opportunity to develop research and development skills, work on cutting-edge technology, and have access to specialist hardware and software. As a successful Honours graduate you are eligible to start a doctoral program, and can expect to obtain a research or teaching position. A wider range of career opportunities are available.

International Course structure

The Accelerated Honours program has been structured to provide an incentive for high achieving IT undergraduate students to continue into the Honours Program. Benefits of this accelerated program are:
- you are approved to undertake a concurrent enrolment in the final semester of your IT undergraduate course. That is to say, you may enrol in undergraduate units and Honours
- 12 credit points will be credited towards Block 3 electives in your IT undergraduate course on the basis of coursework studies completed in IT29 Honours
- you are eligible to complete a 4 year program within 3 1/2 years.

Through a combination of research and advanced coursework units students can pursue specialised studies in a particular area of information technology. The course offers the opportunity to develop research and development skills, work on cutting-edge technology, and have access to specialist hardware and software. As a successful Honours graduate you are eligible to start a doctoral program, and can expect to obtain a research or teaching position. A wider range of career opportunities are available.

Sample Structure

**Semesters**

- **Year 3, Semester 1**
- **Year 3, Semester 2**
- **Year 3, Semester 3**
- **Year 3, Semester 4**
- **Year 3, Summer**

**Code** | **Title**
---|---
Year 3, Semester 1 | Elective
Year 3, Semester 2 | Elective
INN700 | Introduction To Research
INN401 | Honours Dissertation 1
INN701 | Advanced Research Topics
INN402 | Honours Dissertation 2
INN403 | Honours Dissertation 3
INN404 | Honours Dissertation 4

**MIC YEAR ENTRY**

- **Year 3, Semester 2**
- **Year 4, Semester 1**

**Code** | **Title**
---|---
Year 3, Semester 2 | Elective
INN700 | Introduction To Research
INN401 | Honours Dissertation 1
INN402 | Honours Dissertation 2
INN701 | Advanced Research Topics
INN403 | Honours Dissertation 3
INN404 | Honours Dissertation 4

**Code** | **Title**
---|---
Year 4, Semester 1 | Elective
Elective
Elective

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=IT29&courseID=15451.CRICOSNo.00213](http://www.student.qut.edu.au/studying/courses/course?courseCode=IT29&courseID=15451.CRICOSNo.00213)
* The first semester of the Accelerated Honours Program occurs in the final semester of an undergraduate IT course (48 credit points remaining). This involves a concurrent enrolment with the undergraduate course (36 credit points enrolment) and 12 credit points Honours elective undertaken within the IT29 course.

Elective Units - Students should choose advanced level postgraduate units. Normally units are undertaken in the area of the student's undergraduate major. Students wishing to enrol in a unit that is not of an advanced level should contact the Course Coordinator. Students should note that many electives might be offered in the evenings only.

Please note: tuition fees normally apply for Summer enrolment.
Domestic Entry requirements
2012 applications and registrations have closed.
Applications at QTAC and submission of the online questionnaire with QUT for 2012 was due on the 30 November 2011 and have now closed. Late applications and/or questionnaire submissions will not be accepted.

Applicants are required to complete an online questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

Domestic Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- Physics
- Maths C
- Maths B
- English
- Chemistry

Assumed knowledge includes English (4, SA) and Maths B (4, VHA) plus two (2) of Biological Science, Chemistry, Earth Science, Maths C or Physics (4, VHA)

International Entry requirements
International Students must have completed year 12 at an Australian school.

Applicants are required to complete a questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

International Subject prerequisites
- Physics
- Maths C
- Maths B
- English
- Chemistry

Subject prerequisites include English (4, SA) and Maths B (4, VHA) plus two (2) of Biological Science, Chemistry, Earth Science, Maths C or Physics (4, VHA)

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
Dean's Scholars Program enrichment unit:

<table>
<thead>
<tr>
<th>SCB501</th>
<th>Research Project for Dean's Scholars</th>
</tr>
</thead>
</table>

Normal BMaths and BAppSc(Hons) units: BAppSc Coursework (36 cp)

**Year 3, Semester 2 (48 cp)**

Dean’s Scholars Program enrichment unit:

<table>
<thead>
<tr>
<th>SCB501</th>
<th>Research Project for Dean's Scholars</th>
</tr>
</thead>
</table>

Normal BMaths and BAppSc(Hons) units: BMaths Coursework (36 cp)

**Year 4, Semester 1 (48 cp) and Semester 2 (48 cp)**

Normal BMaths and BAppSc(Hons) units: BAppSc(Hons) Coursework/Research (48 cp)

Normal BMaths and BAppSc(Hons) units: BAppSc(Hons) Coursework/Research (48 cp)

**Notes:**

- The exact timing of Dean’s Scholars Program enrichment units may be varied to suit the student's chosen program of study.

- It is also possible to complete the program in 3.5 years using a combination of the 3 and 4 year structures. There is also flexibility for students to undertake Dean's Scholars Program enrichment units during the summer semesters between years 1 and 2, and years 2 and 3 to lighten regular semester study loads or to assist in acceleration.
### Domestic Entry requirements

**2012 applications and registrations have closed.** Applications at QTAC and submission of the online questionnaire with QUT for 2012 was due on the 30 November 2011 and have now closed. Late applications and/or questionnaire submissions will not be accepted.

Applicants are required to complete an online questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

### Domestic Assumed knowledge

Before you start this course we assume you have sound knowledge in these areas

- Physics
- Maths C
- Maths B
- English
- Chemistry

English (4, SA) and Maths B (4, VHA) plus two (2) of Biological Science, Chemistry, Earth Science, Maths C or Physics (4, VHA). We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA) or very high achievement (4, VHA).

### International Entry requirements

International students must complete year 12 at an Australian school.

Applicants are required to complete a questionnaire, and may be required for interview by QUT Faculty of Science and Technology.

### International Subject prerequisites

- Physics
- Maths C
- Maths B
- English
- Chemistry

English (4, SA) and Maths B (4, VHA) plus two (2) of Biological Science, Chemistry, Earth Science, Maths C or Physics (4, VHA). You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

### Minimum English requirements

Students must meet the English proficiency requirements.

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<th>IELTS (International English Language Testing System)</th>
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<td>reading: 6.0</td>
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<tr>
<td>listening: 6.0</td>
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<tr>
<td>overall: 6.5</td>
</tr>
</tbody>
</table>

### Course update

From Semester One 2013 this course will not be available for commencing students. SC01 will only be available for continuing students. New students - please refer to ST01. Please contact sef.enquiry@qut.edu.au for any enquiries.

### Overview

The Bachelor of Applied Science Dean's Scholars Accelerated Honours Program is an accelerated program designed specifically for outstanding current, or returning from a gap year, Year 12 students who completed their Year 12 education in Australia. It also offers an accelerated pathway that enables students to complete both the Bachelor of Applied Science and the Bachelor of Applied Science (Honours) courses in just three years. A scholarship is offered to students in the Bachelor of Applied Science Dean's Scholars Accelerated Honours Program. Students are accepted into the program on the basis of outstanding academic ability and an interest in scientific research.

### Professional Recognition

As a graduate of the Bachelor of Applied Science Dean's Scholars Accelerated Honours Program you will qualify for professional recognition and employment in fields relevant to the specialisations that you have chosen. It is expected that many Dean's Scholars will proceed to Doctor of Philosophy studies.

### Financial support

Domestic students offered a place in the Dean's Scholars Program will have their undergraduate HECS paid by the Faculty and those proceeding to Honours will also receive full HECS support.

International students will have one-third of their tuition fees paid by the faculty for the undergraduate and honours programs.
Course Structure
As a student in the Dean’s Scholars Accelerated Honours Program you will choose one of the following nine majors. You will also choose a co-major to accompany your major area of study. The co-major may be one of the other majors, or it could be one of the co-majors listed below:

**Majors:** Biochemistry, Biotechnology, Chemistry, Ecology, Environmental Science, Forensic Science, Geoscience, Microbiology, Physics.

**Co-majors:** Applied Geology, Astrophysics, Biodiversity, Chemistry for Industry, Life Science Technologies.

To allow the Dean’s Scholars Program to be completed in an accelerated format some changes are made to the first year of the standard Bachelor of Applied Science (SC01) degree. The core units normally studied in first year are replaced by an enriched course of study which includes the following units:

**SCB301 Science for Dean’s Scholars**
An intensive preparatory program immediately preceding the commencement of the first semester. This preparatory program commences mid-January and requires attendance for approximately 18 hours per week for six weeks.

**SCB303 Tutorial Program for Dean’s Scholars**
An individually-tailored tutorial program during the first semester, under the guidance of an academic mentor. This unit is designed in a consultative process involving the student, the academic mentor, and the Dean.

**SCB401 Research Methods for Dean’s Scholars**
The unit allows research skills to be developed through a literature review, experimental design considerations, research proposal formulation and writing, and the presentation of a research proposal.

**SCB501 Research Project for Dean’s Scholars**
An individually tailored research project is carried out under the supervision of a research mentor.

**Honours Program**
Following the successful completion of the coursework and your initial research project in the first two years of the program, you will then commence the Bachelor of Applied Science (Honours) course. The Honours program continues the study of your chosen scientific major and also provides the opportunity to undertake a large research project. The Honours degree provides an excellent preparation to continue onto postgraduate research.

**Note:**
The Faculty may wish to make your project or thesis work available to other students undertaking Honours studies as an exemplar. As the copyright owner of the work you have created, the Faculty will respect your rights and will seek your authorisation to share your work.

**Further Information**
For further information about this course, please contact the following:

**Course Coordinator**
Mr Richard Thomas  
Phone: +61 7 3138 8822  
Email: sef.enquiry@qut.edu.au

**Discipline Coordinators**

**Microbiology, Biochemistry, Biotechnology Majors:**
Associate Professor John Aaskov  
Phone: +61 7 3138 8822  
Email: sef.enquiry@qut.edu.au

**Chemistry Major:**
Dr Madeleine Schultz  
Phone: +61 7 3138 8822  
Email: sef.enquiry@qut.edu.au

**Physics Major:**
Dr Konstantin Momot  
Phone: +61 7 3138 8822  
Email: sef.enquiry@qut.edu.au

**Domestic Course structure**

**Course Structure**
As a student in the Dean’s Scholars Accelerated Honours Program you will choose one of the following nine majors. You will also choose a co-major to accompany your major area of study. The co-major may be one of the other majors, or it could be one of the co-majors listed below:

**Majors:** Biochemistry, Biotechnology, Chemistry, Ecology, Environmental Science, Forensic Science, Geoscience, Microbiology, Physics.

**Co-majors:** Applied Geology, Astrophysics, Biodiversity, Chemistry for Industry, Life Science Technologies.
International Course structure

Course Structure
As a student in the Dean's Scholars Accelerated Honours Program you will choose one of the following nine majors. You will also choose a co-major to accompany your major area of study. The co-major may be one of the other majors, or it could be one of the co-majors listed below:


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Bachelor of Applied Science (Honours)

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**Overview**
Through a combination of research and advanced coursework units, students can pursue specialised studies in a particular area of information technology. The course offers the opportunity to develop research and development skills, work on cutting-edge technology, and have access to specialist hardware and software. As a successful Honours graduate you are eligible to start a doctoral program, and can expect to obtain a research or teaching position. A wider range of career opportunities are available.

**Course Design**
The core of the honours program is a 36, 48, or 60 credit-point project (depending on your study area) that will provide students with the opportunity to learn about research by conducting a research project with an experienced researcher who acts as both supervisor and mentor. Students will learn the types of processes, creativity and analytical thinking that lead to scientific and technological advances and how to communicate such findings in a rigorous, systematic manner.

**Note:** 
The Faculty may wish to make your honours project or thesis work available to other students undertaking Honours studies as an exemplar. As the copyright owner of the work you have created, the Faculty will respect your rights and will seek your authorisation to share your work.

**Professional Recognition**
Relevant scientific professional bodies include Australasian Association of Clinical Biochemists, Australasian Institute of Mining and Metallurgy, AusBiotech Ltd, Australian Institute of Geoscientists, Australian Institute of Physics, Australian Mathematical Society, Australian Society for Biochemistry and Molecular Biology, Australian Society for Medical Research, Australian Society for Microbiology, Australian Society for Operations Research, Ecological Society of Australia, Geological Society of Australia, Royal Australian Chemical Institute, and Statistical Society of Australia. Eligibility for membership is based on the combination of units undertaken in the degree and the Bachelor of Applied Science course that underpins it.

**Course Structure**
The Honours year comprises coursework and a major research project supervised by QUT staff, in some cases in conjunction with local industry. Majors are offered in chemistry, ecology, environmental science, geology, life science, mathematics and physics.

**Further Information**

<table>
<thead>
<tr>
<th><strong>Course Coordinator</strong></th>
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<tbody>
<tr>
<td>Dr David Hurwood</td>
</tr>
<tr>
<td>Phone: +61 7 3138 8822</td>
</tr>
<tr>
<td>Email: <a href="mailto:sef.enquiry@qut.edu.au">sef.enquiry@qut.edu.au</a></td>
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<tbody>
<tr>
<td>Chemistry</td>
</tr>
<tr>
<td>Dr John McMurtrie (Chemistry); Dr David Hurwood (Ecology &amp; Geology); Professor Peter Mather (Environmental Science); Associate Professor Terry Walsh (Life Science); Dr Scott McCue (Mathematics); Dr Esa Jaatinen (Physics)</td>
</tr>
<tr>
<td>Phone: +61 7 3138 1220</td>
</tr>
<tr>
<td>Email: <a href="mailto:j.mcmurtrie@qut.edu.au">j.mcmurtrie@qut.edu.au</a></td>
</tr>
</tbody>
</table>

| Ecology                    |
| Dr David Hurwood           |
| Phone: +61 7 3138 5072      |
| Email: d.hurwood@qut.edu.au |

| Environmental Science      |
| Professor Peter Mather     |
| Phone: +61 7 3138 1737      |
| Email: p.mather@qut.edu.au  |

| Geology                    |
| Mr David Hurwood           |
| Phone: +61 7 3138 5072      |
| Email: d.hurwood@qut.edu.au |

| Life Science               |
| Associate Professor Terry Walsh |
| Phone: +61 7 3138 2347       |
| Email: t.walsh@qut.edu.au    |
**Domestic Course structure**

**Course Design**
The core of the honours program is a 36, 48, or 60 credit-point project (depending on your study area) that will provide students with the opportunity to learn about research by conducting a research project with an experienced researcher who acts as both supervisor and mentor. Students will learn the types of processes, creativity and analytical thinking that lead to scientific and technological advances and how to communicate such findings in a rigorous, systematic manner.

**Course Structure**
The Honours year comprises coursework and a major research project supervised by QUT staff, in some cases in conjunction with local industry. Majors are offered in chemistry, ecology, environmental science, geology, life science, mathematics and physics.

**International Course structure**

**Course Design**
The core of the honours program is a 36, 48, or 60 credit-point project (depending on your study area) that will provide students with the opportunity to learn about research by conducting a research project with an experienced researcher who acts as both supervisor and mentor. Students will learn the types of processes, creativity and analytical thinking that lead to scientific and technological advances and how to communicate such findings in a rigorous, systematic manner.

**Course Structure**
The Honours year comprises coursework and a major research project supervised by QUT staff, in some cases in conjunction with local industry. Majors are offered in chemistry, ecology, environmental science, geology, life science, mathematics and physics.
Domestic Entry requirements
A four-year full-time bachelor degree in a relevant discipline area; or a three-year full-time diploma and three or more years of relevant professional experience in a relevant discipline; and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

International Entry requirements
A four-year full-time bachelor degree in a relevant discipline area; or a three-year full-time diploma and three or more years of relevant professional experience in a relevant discipline; and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

Minimum english requirements
Students must meet the English proficiency requirements.

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<td>6.0</td>
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<tr>
<td>overall</td>
<td>6.0</td>
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</tbody>
</table>

Overview
This course serves as a preparation and pathway program for students wishing to enter a masters program in Engineering or Built Environment in the Science and Engineering Faculty. It is particularly aimed at students with either a three-year undergraduate degree, or a degree in a different area to the masters of their choice.
**Graduate Certificate in Engineering (Power Generation)**

**Domestic Entry requirements**
- Bachelor of Engineering degree or equivalent as determined by the Faculty.
- Or Advanced Diploma with industry experience.
- Students with the degree qualification but who do not have second class honours may transfer after completing the Graduate Certificate provided they achieve a grade point average of 5 or more.
- Applicants must provide a letter of support from an industry that utilise power generation to be eligible to enter the program.
- Students who do not meet the entry requirements for the Master of Engineering (Power Generation) may be eligible to enrol in the Graduate Certificate in Engineering (Power Generation) as a pathway to the masters program.
- Students can also study individual power generation units through CPE.

**Minimum English requirements**
Students must meet the English proficiency requirements.

**Why study Power Generation**
- Designed by industry experts and specialist staff at three of Australia’s premier universities
- Study in a number of locations and a variety of formats to enable you to work full time and access the professional development easily
- Enhance your technical competency; increase your knowledge and skill set within the power generation sector
- Tailored program taught by industry experts
- Build a career in the dynamic power generation industry
- Study individual units through Continuing Professional Education.

**Overview**
Developed collaboratively by industry experts and specialist staff at three partner universities, the program is designed to meet the needs of the Australian power generation industry and its current and future workforce by capturing the knowledge and expertise of power generation engineers working in the power industry.

The program has been designed to enhance the technical competency of professional engineers and those working in Para-professional roles within the power generation sector through professional development.

Graduates will gain skills and knowledge in a range of areas related to the design, construction, maintenance and management of power generation. The degree offers both theoretical understanding and practical applications of advanced professional practice.

**Study Mode**
The Graduate Certificate in Engineering (Power Generation) is delivered in intensive learning sessions on campus and generator sites. Units are delivered in a variety of formats and locations to enable those working in full-time roles to access the professional development easily.

**Further Information**
Please visit here to find out how to apply and for further information.

**Sample Structure**

**Semesters**

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<tr>
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<td>EPG001</td>
<td>Introduction To Power Plant</td>
</tr>
<tr>
<td>EPG005</td>
<td>Project Delivery</td>
</tr>
</tbody>
</table>

PLUS select one unit from the Advanced Power Generation Unit Options, or Power Generation Unit Options.

You will be granted 24cp of advanced standing based on completion of approved units from UQ and CQU.

**Power Generation Unit Options**
- EPG006 Applied Thermodynamics
- EPG011 Industrial Electrical Power Distribution
- EPG015 Industrial Electrical Power Systems

**Course Notes**
- Select one of:
  - Introduction To Power Plant
  - Project Delivery

PLUS select one unit from the Advanced Power Generation Unit Options.

Students must meet the English proficiency requirements.

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

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</table>

Course Update
From semester one, 2009 this course will not be available for commencing students. IT74 will only be available for continuing students. New students - please refer to IT43. IT73 continuing students should contact the course coordinator, Helen Partridge for enrolment or progression advice via enquiry.scitech@qut.edu.au or 3138 2782.

Unit Incompatibility/Translation Information
Details on the translation and incompatibility of old and new units is located here:
Postgraduate Translation Table
If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

Further Information
For further information about this course, please contact:

Helen Partridge
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Sample Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>INN220</td>
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<td>INN322</td>
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</tbody>
</table>

From semester one, 2009 this course will not be available for commencing students. IT74 will only be available for continuing students. New students - please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Complete these 4 core units

INN330  Information Management
INN690  Minor Project 1
Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
<tbody>
<tr>
<td>speaking</td>
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<tr>
<td>writing</td>
</tr>
<tr>
<td>reading</td>
</tr>
<tr>
<td>listening</td>
</tr>
<tr>
<td>overall</td>
</tr>
</tbody>
</table>

Course Update
From semester one, 2009 this course will not be available for commencing students. IT73 will only be available for continuing students. New students - please refer to IT43. IT73 continuing students should contact the course coordinator, Helen Partridge for enrolment or progression advice via enquiry.scitech@qut.edu.au or 3138 2782.

Unit Incompatibility/Translation Information
Details on the translation and incompatibility of old and new units is located here: Postgraduate Translation Table
If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

Further Information
For further information about this course, please contact:

Helen Partridge
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Sample Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Course Structure 2009</td>
</tr>
<tr>
<td></td>
<td>Core Units</td>
</tr>
<tr>
<td></td>
<td>Choose one unit from the following</td>
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</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT75&courseID=19191. CRICOS No.00213J
Graduate Certificate in Information Technology

**Domestic Entry requirements**
To be eligible for this program, students must meet one of the following criteria:

- the Australian equivalent of a Bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

**International Entry requirements**
To be eligible for this program, students must meet one of the following criteria:

- the Australian equivalent of a Bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

**Minimum English requirements**
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
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<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Course Overview**
Information technology is now firmly ensconced in society with all the other business practices that constitute modern organisations. This Graduate Certificate course has interfaculty contributions from the Faculties of Science & Engineering, Business, Creative Industries and Law, matching closely to their relevant IT research areas. Recognition of the burgeoning of specialised areas within the Information Industries is reflected in the structure of this course through ten different majors:

- No Major
- Digital Environments
- Enterprise Systems
- Executive Information Practice
- Games Design
- Games Production
- Information Management
- Library and Information Science
- Network Management
- Security
- Software Architecture

The Graduate Certificate in Information Technology IT85 is an entry point that is nested within the IT43 Masters and IT44 Masters Advanced programs. Students who successfully complete the IT85 course may articulate to IT43 Masters or IT44 Masters Advanced Programs.

The IT85 Graduate Certificate in Information Technology does not provide a pathway to follow on with a research degree. However, students who graduate from the IT85 Graduate Certificate in Information Technology may articulate to the IT43 Master of Information Technology or IT44 Master of Information Technology Advanced coursework programs.

**Course Structure**
Students are required to complete 48 credit points of units. Please refer to the course structures for information on specific unit requirements for each major. This course may be taken over two semesters part-time. However if the timetable permits a student may complete this course full time in one semester.

**Course completion rules**
Students should meet the following requirements before they are able to complete the Graduate Certificate program:

- Students are required to complete 48 credit points of units.
- Students must complete the specific unit requirements for a graduate certificate in a major.

Students undertaking units from the MBA program (GSN units) in the Graduate School of Business (GSB) must meet the MBA entry requirements. Please see the GSB website for further information.

**Further Information**
For further information about this course, please contact:
Graduate Certificate in Information Technology

Dr Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure
Course design
This course allows students who might like exposure to a number of units across several specialisation areas to undertake 48 credit points from any postgraduate Information Technology units offered. This program suits students who are not looking to undertake a discipline-specific postgraduate program, but rather complementary studies. This study area is the most flexible of the areas offered and thus is the default for students who do not select any major.

International Course structure
Course design
This course allows students who might like exposure to a number of units across several specialisation areas to undertake 48 credit points from any postgraduate Information Technology units offered. This program suits students who are not looking to undertake a discipline-specific postgraduate program, but rather complementary studies. This study area is the most flexible of the areas offered and thus is the default for students who do not select any major.
Graduate Certificate in Mathematical Science

**Domestic Entry requirements**

**Entry Requirements**
To be eligible for admission an applicant:

**International Entry requirements**
**Entry Requirements**
To be eligible for admission an applicant:

**Minimum english requirements**
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>writing</td>
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<tr>
<td>reading</td>
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</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Overview**
These courses enable graduates from any discipline to develop their knowledge and skills in one or more areas of the mathematical sciences. Strands available include mathematical modelling/applied mathematics, computational mathematics, statistics/statistical modelling, quantitative analysis/financial mathematics and operations research.

These courses recognise that students may not have studied mathematics for some time.

**Course Design**
The program of study for an individual student will be decided in consultation with the course coordinator and will take into account the student’s background and area of interest within the mathematical sciences.

In the Graduate Certificate, at least 36 credit points must be taken from postgraduate mathematics units and up to 12 credit points can be taken from units other than mathematics units.

**Sample Structure**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>MAN101</td>
<td>Statistical Data Analysis 1</td>
</tr>
<tr>
<td>MAN105</td>
<td>Preparatory Mathematics</td>
</tr>
<tr>
<td>MAN120</td>
<td>Algebra and Calculus</td>
</tr>
<tr>
<td>MAN121</td>
<td>Calculus and Differential Equations</td>
</tr>
<tr>
<td>MAN122</td>
<td>Algebra and Analytic Geometry</td>
</tr>
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<td>MAN200</td>
<td>Advanced Topics in Mathematical Sciences 1</td>
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<td>MAN201</td>
<td>Advanced Topics in Mathematical Sciences 2</td>
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<tr>
<td>MAN210</td>
<td>Statistical Modelling 1</td>
</tr>
<tr>
<td>MAN220</td>
<td>Computational Mathematics 1</td>
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</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=MA65&courseID=15233. CRICOS No.00213J
<table>
<thead>
<tr>
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<tbody>
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</tr>
<tr>
<td>MAN311</td>
<td>Advanced Calculus</td>
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<td>MAN312</td>
<td>Linear Algebra</td>
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<td>Mathematics of Finance</td>
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<td>Statistical Modelling 2</td>
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<td>Operations Research 2</td>
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<td>MAN413</td>
<td>Differential Equations</td>
</tr>
<tr>
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<td>Applied Statistics 2</td>
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<tr>
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<td>MAN521</td>
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<td>MAN525</td>
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<td>MAN533</td>
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<td>MAN613</td>
<td>Partial Differential Equations</td>
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<td>Operations Research 3B</td>
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<td>Project</td>
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<tr>
<td>MAN717</td>
<td>Minor Project</td>
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<tr>
<td>MAN765</td>
<td>Bayesian Data Analysis</td>
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<td>Applied Time Series Analysis</td>
</tr>
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<td>Advanced Techniques in Operations Research</td>
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<tr>
<td>MAN769</td>
<td>Mathematics of Finance</td>
</tr>
<tr>
<td>MAN771</td>
<td>Computational Mathematics 4</td>
</tr>
<tr>
<td>MAN774</td>
<td>Perturbation Methods</td>
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<tr>
<td>MAN775</td>
<td>Statistical Modelling of Financial Processes</td>
</tr>
<tr>
<td>MAN778</td>
<td>Applications of Discrete Mathematics</td>
</tr>
</tbody>
</table>
Graduate Certificate in Lighting (on-shore)

**Domestic Entry requirements**

**Entry Requirements**

**Minimum english requirements**

Students must meet the English proficiency requirements.

**IELTS (International English Language Testing System)**

<table>
<thead>
<tr>
<th>Speaking</th>
<th>Writing</th>
<th>Reading</th>
<th>Listening</th>
<th>Overall</th>
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<tbody>
<tr>
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<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
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</tr>
</tbody>
</table>

**Course Design**

Graduate Certificate students will undertake four units (12 credit points each) covering the perception, specification and measurement of light, lamp and luminaire design, lighting design, sustainability issues and human factors.

**Further Information**

**Course Coordinator**

Associate Professor Ian Cowling
Phone: +61 7 3138 2592
Email: i.cowling@qut.edu.au

**Domestic Course structure**

**Course design**

Domestic students in the Graduate Certificate in Lighting have the opportunity, on successful completion of 48 credit points, to continue with studies in the Graduate Diploma in Lighting. Domestic students in the Graduate Diploma in Lighting have the opportunity, on successful completion of 96 credit points with the required grade point average, to continue with studies in the Master of Lighting. International students wishing to change courses should consult Student Business Services.

Most units in the internal mode will be offered in block format on weekends and some weeknights. Students enrolling in the external mode of the Graduate Diploma will be required to attend QUT for four to five days each semester for intensive practical and tutorial work.

**Sample Structure**

**Semesters**

- **Year 1, Semester 1**
- **Year 1, Semester 2**
Domestic Entry requirements

Entry Requirements
To be eligible for admission an applicant:

International Entry requirements

Entry Requirements
To be eligible for admission an applicant:

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

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Overview
These courses enable graduates from any discipline to develop their knowledge and skills in one or more areas of the mathematical sciences. Strands available include mathematical modelling/applied mathematics, computational mathematics, statistics/statistical modelling, quantitative analysis/financial mathematics and operations research. This course recognises that students may not have studied mathematics for some time.

Course Design
The program of study for an individual student will be decided in consultation with the course coordinator and will take into account the student’s background and area of interest within the mathematical sciences.

In the Graduate Diploma, at least 24 credit points must be taken from advanced postgraduate mathematics units. Up to 24 credit points can be taken from units other than mathematics units and there is a limit of 36 credit points from project units.

International Course structure

Course design
The program of study for an individual student will be decided in consultation with the course coordinator and will take into account the student’s background and area of interest within the mathematical sciences.

In the Graduate Diploma, at least 24 credit points must be taken from advanced postgraduate mathematics units. Up to 24 credit points can be taken from units other than mathematics units and there is a limit of 36 credit points from project units.

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</tbody>
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Further Information
For further information about this course, please contact:

Troy Farrell (Course Coordinator) or James McGree (Assistant Course Coordinator)
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au
## Graduate Diploma in Mathematical Science

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
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This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=MA75&courseID=15250. CREOS No.00213](http://www.student.qut.edu.au/studying/courses/course?courseCode=MA75&courseID=15250. CREOS No.00213). CRICOS No.00213J
Graduate Diploma in Lighting (on-shore)

**Year** 2012  
**QUT code** PH72  
**Duration** 2 years  
**Campus** Gardens Point  
**Total credit points** 96  
**Credit points part-time sem.** 24  
**Dom. Start Months** February  
**Course Coordinator** Associate Professor Ian Cowling  
**Discipline Coordinator** Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

**Domestic Entry requirements**  
**Entry Requirements**  
Minimum english requirements  
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
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<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Course Design**  
Graduate Diploma students will undertake 24 credit points (two units) of advanced lighting design and applications studies and two other units (24 credit points) which could include up to two project-management type units.

**Further Information**  
For further information about this course, please contact:  
Associate Professor Ian Cowling  
Phone: +61 7 3138 2592  
Email: i.cowling@qut.edu.au

**Domestic Course structure**  
**Course design**  
Students in the Graduate Diploma in Lighting have the opportunity, on successful completion of 96 credit points with the required grade point average, to continue with studies in the Master of Lighting.

Most units in the internal mode will be offered in block format on weekends and some weeknights. Students enrolling in the external mode of the Graduate Diploma will be required to attend QUT for four to five days each semester for intensive practical and tutorial work.

**International Course structure**  
**Course design**  
Students in the Graduate Diploma in Lighting have the opportunity, on successful completion of 96 credit points with the required grade point average, to continue with studies in the Master of Lighting.

Most units in the internal mode will be offered in block format on weekends and some weeknights. Students enrolling in the external mode of the Graduate Diploma will be required to attend QUT for four to five days each semester for intensive practical and tutorial work.

**Sample Structure Semesters**

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<th>Code</th>
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<tr>
<td>PCN121</td>
<td>Vision Colour and Photometry</td>
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<tr>
<td>PCN124</td>
<td>Lamps and Luminaires</td>
</tr>
<tr>
<td>PCN122</td>
<td>Lighting Design</td>
</tr>
<tr>
<td>PCN123</td>
<td>Sustainability and Human Factors</td>
</tr>
<tr>
<td>PCN221</td>
<td>Best Practices in Lighting</td>
</tr>
<tr>
<td>PCN224</td>
<td>Applied Lighting</td>
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<tr>
<td>PCN222</td>
<td>Advanced Lighting Design</td>
</tr>
<tr>
<td>PCN223</td>
<td>Lighting Applications</td>
</tr>
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</table>

**Course Notes**  
PH72 is offered part-time internally and externally. The course comprises a lecture/tutorial format, and where appropriate practical and field work. Some units will have a significant computer-design type component and all units will incorporate learning through assignment work, all of which will be incorporated into the assessment program. Students enrolling in the external mode will be required to attend QUT for 4 to 5 days per semester for intensive practical and tutorial work.

Domestic students in the Graduate Diploma in Lighting (PH72) will be invited, on successful completion of 96 credit points, to continue with studies in the Master of Lighting (PH82).

Students in the Graduate Diploma in Lighting (PH72) wishing to exit with the Graduate Certificate in Lighting (PH62) are required to submit an Application to Graduate Early with an Approved Exit Course (SRX) Form in their final semester of study.

International students wishing to change courses should consult International Student Business Services.
## Graduate Diploma in Applied Science

### Handbook

<table>
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<tr>
<td>Duration (part-time domestic)</td>
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<td>Credit points part-time sem.</td>
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<tr>
<td>Course Coordinator</td>
<td>Associate Professor Terry Walsh</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Science and Engineering Faculty 3138 8822 <a href="mailto:sef.enquiry@qut.edu.au">sef.enquiry@qut.edu.au</a></td>
</tr>
</tbody>
</table>

### Domestic Entry requirements

#### Entry requirements
A bachelor degree in science or equivalent qualification or other evidence of qualifications that satisfactorily demonstrate that the applicant possesses the capacity to pursue the course of study.

### International Entry requirements

#### Entry requirements
A bachelor degree in science or equivalent qualification or other evidence of qualifications that satisfactorily demonstrate that the applicant possesses the capacity to pursue the course of study.

### Minimum english requirements

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
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<tr>
<td>writing</td>
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<tr>
<td>reading</td>
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<tr>
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</tr>
<tr>
<td>overall</td>
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</tbody>
</table>

### Overview

This course offers students currently employed in industry the opportunity to upgrade their professional qualifications in one of our science disciplines. The course is a one-year-full-time (or two-year-part-time) postgraduate qualification by coursework, or coursework and a minor research project.

### Career Outcomes

Graduates find employment in hospitals, health departments, mining companies, tertiary institutions and medical instrumentation companies, in careers such as medical physicists or biomedical engineers.

### Course Design

This coursework program allows students to complete a minor research project of up to 36 credit points in some disciplines (as approved by the Academic Board). The assessed coursework may include advanced lectures, seminars, reading units or independent study designed to focus on information retrieval skills. Coursework units are chosen from those in the Master of Applied Science course and may contain units from other postgraduate courses, the Bachelor of Applied Science (Honours) program or advanced undergraduate programs.

### Further Information

For further information about this course, please contact:

#### Discipline Coordinators

**Chemistry**  
Dr Geoffrey Will  
Phone: +61 7 3138 2297  
Email: g.will@qut.edu.au

**Natural Resource Sciences**  
Dr Susan Fuller  
Phone: +61 7 3138 2497  
Email: s.fuller@qut.edu.au

**Life Science**  
Dr Mark O'Brien  
Phone: +61 7 3138 2568  
Email: m.obrien@qut.edu.au

**Mathematics**  
Dr Troy Farrell  
Phone: +61 7 3138 2364  
Email: t.farrell@qut.edu.au

**Physics**  
Dr Andrew Fielding  
Phone: +61 7 3138 5325  
Email: a.fielding@qut.edu.au

### Domestic Course structure

#### Course design

This coursework program allows students to complete a minor research project of up to 36 credit points in some disciplines (as approved by the Academic Board). The assessed coursework may include advanced lectures, seminars, reading units or independent study designed to focus on information retrieval skills. Coursework units are chosen from those in the Master of Applied Science course and may contain units from other postgraduate courses, the Bachelor of Applied Science (Honours) program or advanced undergraduate programs.

### International Course structure

#### Course design

This coursework program allows students to complete a minor research project of up to 36 credit points in some disciplines (as approved by the Academic Board). The assessed coursework may include advanced lectures, seminars, reading
units or independent study designed to focus on information retrieval skills. Coursework units are chosen from those in the Master of Applied Science course and may contain units from other postgraduate courses, the Bachelor of Applied Science (Honours) program or advanced undergraduate programs.
Domestic Entry requirements
A four-year full-time bachelor degree in a relevant engineering discipline area and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

International Entry requirements
A four-year full-time bachelor degree in a relevant engineering discipline area and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Overview
This course offers an engineering management qualification to practising engineers through formal study in management and advanced engineering skills and knowledge. It provides graduates with analytical tools and methods required to improve operational efficiencies, typically within manufacturing and service organisations. It will prepare engineering graduates to take up management-level roles in operations management, quality control management, logistics or supply chain management.

Advanced Standing
Students completing two Masters courses in the following Master Courses - BN87, BN88, BN89, EN50(Systems), UD50 - will be eligible to apply for a maximum of 24 credit points advanced standing in the second course on the basis of common units already completed. Such students will be required to complete a minimum of 72cp to be determined in consultation with the nominated Course Leader, to achieve the second Masters.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

Sample Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEN610</td>
<td>Project Management Principles</td>
</tr>
<tr>
<td>ENN510</td>
<td>Engineering Knowledge Management</td>
</tr>
<tr>
<td>ENN515</td>
<td>Total Quality Management</td>
</tr>
<tr>
<td>AMN435</td>
<td>Communication, Negotiation and Leadership</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1, Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEN710 Sustainable Practice in Built Environment and Engineering</td>
</tr>
<tr>
<td>BEN910 Integrated Project</td>
</tr>
<tr>
<td>ENN530 Asset and Facility Management</td>
</tr>
<tr>
<td>ENN570 Enterprise Resource Planning</td>
</tr>
</tbody>
</table>
Domestic Entry requirements
A four-year full-time bachelor degree in a relevant discipline area; or an equivalent qualification, and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

International Entry requirements
A four-year full-time bachelor degree in a relevant discipline area; or an equivalent qualification, and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

Minimum English requirements
Students must meet the English proficiency requirements.

| IELTS (International English Language Testing System) |  |
|-------------------------------------------------------|--|---|
| speaking                                              | 6.0|--|
| writing                                               | 6.0|--|
| reading                                               | 6.0|--|
| listening                                             | 6.0|--|
| overall                                               | 6.0|--|

Advanced Standing
Students completing two Masters courses in the following Master Courses - BN87, BN88, BN89, EN50(Systems), UD50 - will be eligible to apply for a maximum of 24 credit points advanced standing in the second course on the basis of common units already completed. Such students will be required to complete a minimum of 72cp to be determined in consultation with the nominated Course Leader, to achieve the second Masters.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

Sample Structure
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BEN610</td>
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<tr>
<td>UDN572</td>
<td>Infrastructure Planning and Management</td>
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<tr>
<td>UDN574</td>
<td>Water Resource and Waste Management</td>
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<td>AMN435</td>
<td>Communication, Negotiation and Leadership</td>
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<tr>
<td>BEN710</td>
<td>Sustainable Practice in Built Environment and Engineering</td>
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<tr>
<td>BEN910</td>
<td>Integrated Project</td>
</tr>
<tr>
<td>ENN530</td>
<td>Asset and Facility Management</td>
</tr>
<tr>
<td>UDN576</td>
<td>Transportation Infrastructure</td>
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</table>
Master of Project Management

Domestic Entry requirements
A four-year full-time bachelor degree in a relevant discipline area; and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

International Entry requirements
A four-year full-time bachelor degree in a relevant discipline area; and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<table>
<thead>
<tr>
<th>Component</th>
<th>Score</th>
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<tbody>
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<td>6.0</td>
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<tr>
<td>writing</td>
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<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.0</td>
</tr>
</tbody>
</table>

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).
Master of Engineering (Power Generation)

<table>
<thead>
<tr>
<th>Handbook</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year</strong></td>
</tr>
<tr>
<td><strong>QUT code</strong></td>
</tr>
<tr>
<td><strong>Duration (part-time domestic)</strong></td>
</tr>
<tr>
<td><strong>Campus</strong></td>
</tr>
<tr>
<td><strong>Domestic fee (indicative)</strong></td>
</tr>
<tr>
<td><strong>Total credit points</strong></td>
</tr>
<tr>
<td><strong>Start months</strong></td>
</tr>
<tr>
<td><strong>Course Coordinator</strong></td>
</tr>
<tr>
<td><strong>Discipline Coordinator</strong></td>
</tr>
</tbody>
</table>

**Domestic Entry requirements**
Applicants for this course must possess a:
- Bachelor of Engineering degree
- and a grade point average of 5 or more (on a 7-point scale)
- or an equivalent qualification as determined by the Faculty.

Applicants must provide a letter of support and sponsorship from an industry with a power generation component to be eligible to enter this program. Sponsorship can range from the employer giving simple approval through to full payment of fees.

Students who do not meet the entry requirements for the Master of Engineering (Power Generation) may be eligible to enrol in the Graduate Certificate in Engineering (Power Generation) as a pathway to the masters program.

**International Entry requirements**
Please see the Continuing Professional Education Office or the Power Generation Skills Development for details of entry requirements.

**Minimum english requirements**
Students must meet the English proficiency requirements.

**Why study Power Generation**
- Designed by industry experts and specialist staff at three of Australia’s premier universities
- Study in a number of locations and a variety of formats to enable you to work full time and access the professional development easily
- Enhance your technical competency; increase your knowledge and skill set within the power generation sector
- Tailored program taught by industry experts
- Build a career in the dynamic power generation industry
- Study individual units through Continuing Professional Education.

**Study mode**
The Master of Engineering (Power Generation) is delivered in intensive learning sessions on campus and generator sites. Units are delivered in a variety of formats and locations to enable those working in full-time roles to access the professional development easily.

**Further Information**
Please visit here to find out how to apply and for further information

**Overview**
Developed collaboratively by industry experts and specialist staff at three partner universities, the program is designed to meet the needs of the Australian power generation industry and its current and future workforce by capturing the knowledge and expertise of power generation engineers working in the power industry.

The program has been designed to enhance the technical competency of professional engineers and those working in Para-professional roles within the power generation sector through professional development.

Graduates will gain skills and knowledge in a range of areas related to the design, construction, maintenance and management of power generation. The degree offers both theoretical understanding and practical applications of advanced professional practice.

**Early Exit Option**
An early exit with BX21 - Graduate Certificate in Engineering (Power Generation) is available.

**Domestic Course structure**

**Program structure**
To obtain a Masters qualification, students must complete eight courses:
- five core courses and three electives.

- There is an option for students to exit with a Graduate Certificate award after completion of four courses (if requirements for a Graduate Certificate are met).

The Power Generation Masters program is built around five core courses:
- Introduction to Power Plant (QUT)
- Asset Management Systems (CQU)
- Rotating Machinery (UQ)
- Project Delivery (QUT)
- Regulation, Compliance and Safety (UQ)

Students can then choose three electives from the following list:
- Applied Thermodynamics (QUT)
- Advanced Power Plant (CQU)
- Plant Control Systems (UQ)
- Power Plant Chemistry (CQU)
- Bulk Materials and Waste Products (CQU)
- Industrial Electrical Power
Master of Engineering (Power Generation)

- Distribution (QUT)
- Plant Materials (CQU)
- Generator Technology Design and Application (UQ)
- Transformer Technology Design and Operation (UQ)
- Industrial Electrical Power Systems (QUT)
- Gas Plant and Systems (UQ)

For more information on any of the units from UQ or CQU visit the Power Generation Skills Development site.

International Course structure

Program structure

Students can undertake any of these units as one-off continuing professional development. International students can enrol in an award program at UQ or CQU.

Core units:
- Introduction to Power Plant (QUT)
- Asset Management Systems (CQU)
- Rotating Machinery (UQ)
- Project Delivery (QUT)
- Regulation, Compliance and Safety (UQ)

Elective units:
- Applied Thermodynamics (QUT)
- Advanced Power Plant (CQU)
- Plant Control Systems (UQ)
- Power Plant Chemistry (CQU)
- Bulk Materials and Waste Products (CQU)
- Industrial Electrical Power Distribution (QUT)
- Plant Materials (CQU)
- Generator Technology Design and Application (UQ)
- Transformer Technology Design and Operation (UQ)
- Industrial Electrical Power Systems (QUT)
- Gas Plant and Systems (UQ)

For more information on any of the units from UQ or CQU visit the Power Generation Skills Development site.

Sample Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPG001</td>
<td>Introduction To Power Plant</td>
</tr>
<tr>
<td>EPG005</td>
<td>Project Delivery</td>
</tr>
<tr>
<td></td>
<td>PLUS select one unit from the Power Generation Unit Options. You will be granted 60cp of advanced standing based on completion of approved units from UQ and CQU.</td>
</tr>
</tbody>
</table>

If you wish to undertake 24cp of this 60cp at QUT, please consult the faculty.

Unit electives (QUT)
Master of Engineering (Railway Infrastructure)

**Domestic Entry requirements**
Entry to this course is open to employees of companies conducting business in the railway industry and whose employer is prepared to sponsor or support their study of this course. That is, applicants must be working in the railway industry and have the support of their employer.

You will also need a four-year full-time bachelor degree in a civil engineering related field or a three-year full-time diploma and three or more years of relevant professional experience in the railway industry. You will also need a grade point average of 5.0 or more on a 7-point scale in that study, or an equivalent qualification determined by the Faculty. You must supply original copies of qualifications claimed in your application.

English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. If you obtained your qualifications overseas you may still require an IELTS or TOEFL test, even if you are now resident in Australia.

**International Entry requirements**
Entry to this course is open to employees of companies conducting business in the railway industry and whose employer is prepared to sponsor or support their study of this course. That is, applicants must be working in the railway industry and have the support of their employer.

You will also need a four-year full-time bachelor degree in a civil engineering related field or a three-year full-time diploma and three or more years of relevant professional experience in the railway industry. You will also need a grade point average of 5.0 or more on a 7-point scale in that study, or an equivalent qualification determined by the Faculty. You must supply original copies of qualifications claimed in your application.

**Why study Railway Infrastructure**
- study part-time by flexible online learning – wherever you are in the world
- developed exclusively for engineers employed in the rail industry
- designed by Australian rail industry and academic personnel and fully endorsed by Rail Innovation Australia
- comprehensive best-practice learning material from one of the world’s leading heavy haul nations
- study individual units through Continuing Professional Education.

**Overview**
Developed as a cooperative project between the rail industry and the Queensland University of Technology, this course captures the knowledge and expertise of civil infrastructure engineers working in the Australian rail industry. It is provided as a professional development program for people working in the rail industry. Graduates will gain skills and knowledge in a range of areas related to the design, construction, maintenance and management of railway infrastructure. The degree offers both theoretical understanding and practical applications of advanced professional practice.

**Study Mode**
The course is delivered via flexible online learning suitable for mature age students studying part-time and working full-time. There are no on-campus classes and you can complete the course from any location world-wide. You will study using a combination of online, CD and print material and submit assignments for assessment.

**Further Information**
Please visit here to find out how to apply and to register for the newsletter.

**Early Exit Option**
An early exit with BX31 - Graduate Certificate in Engineering (Railway Infrastructure) is available.

**Sample Structure**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

**Minimum english requirements**
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
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</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=BX30&courseID=19690. CRICOS No.00213J
## Master of Engineering (Railway Infrastructure)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>UDN501</td>
<td>Rail and Related Track Structures</td>
</tr>
<tr>
<td>UDN500</td>
<td>Ballast, Sleepers and Fasteners</td>
</tr>
<tr>
<td>UDN503</td>
<td>Track Geometry and Train Interaction</td>
</tr>
<tr>
<td>UDN502</td>
<td>Track Stability, Design and Formation</td>
</tr>
<tr>
<td>UDN505</td>
<td>Assets, Environment and Safety</td>
</tr>
<tr>
<td>UDN504</td>
<td>Track Construction, Civil Structures</td>
</tr>
<tr>
<td>BEZ910</td>
<td>Integrated Project</td>
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<td></td>
<td>Elective</td>
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</table>

### Semester 2 entry

<table>
<thead>
<tr>
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<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Ballast, Sleepers and Fasteners</td>
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<tr>
<td>UDN501</td>
<td>Rail and Related Track Structures</td>
</tr>
<tr>
<td>UDN502</td>
<td>Track Stability, Design and Formation</td>
</tr>
<tr>
<td>UDN503</td>
<td>Track Geometry and Train Interaction</td>
</tr>
<tr>
<td>UDN504</td>
<td>Track Construction, Civil Structures</td>
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<tr>
<td>UDN505</td>
<td>Assets, Environment and Safety</td>
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<tr>
<td>BEZ910</td>
<td>Integrated Project</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
</tr>
</tbody>
</table>
Domestic Entry requirements
A four-year full-time bachelor degree in a relevant discipline area and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty.

Applicants from a non-relevant background may gain entry through successful completion of the BN85 Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

International Entry requirements
A four-year full-time bachelor degree in a relevant discipline area and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty.

Applicants from a non-relevant background may gain entry through successful completion of the BN85 Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience.

Minimum English requirements
Students must meet the English proficiency requirements.

| IELTS (International English Language Testing System) | 6.0 |
| speaking | writing | reading | listening | overall |

Assumed Knowledge
It is assumed upon entry to the Masters program that students are proficient in prerequisite knowledge relevant to the intended Study Area A:

- **Electrical Engineering**: students are assumed to be proficient in the general areas of electrical engineering, electronic engineering or relevant disciplines.
- **Mechanical Engineering**: students are assumed to be proficient in the general areas of mechanical engineering, metallurgy, materials or relevant disciplines.
- **Sustainable Energy**: students are assumed to be proficient in general engineering including electrical, mechanical and civil or relevant science disciplines.
- **Transport**: students are assumed to be proficient in general engineering, preferably with civil and transport related disciplines.

Course Structure
To graduate with a Master of Engineering students are required to complete 96 credit points (8 units) of course units.

a) 2 Core units + 2 Project units (of a specialisation area) + at least 3 electives with the same specialisation tag to claim Master of Engineering (Specialisation); or

b) 2 Core units + 2 Project units + any 4 electives to claim Master of Engineering, i.e. no specialisation (Students fulfilling the specialisation requirement may choose not to have a specialisation in the award title)

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Early Exit Options
Early exit with the Graduate Diploma in Built Environment and Engineering is available upon completion of the two core units ENN541 and ENN542 and any two Project or specialisation units in the course.

Professional Recognition
The Master of Engineering is a post-professional qualification and, as such, is beyond the usual qualifications required for membership of professional organisations.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

Sample Structure
Semesters

- **CORE UNITS**
- **OPTIONAL UNITS**
- **Electrical Engineering Major**
- **Mechanical Engineering Major**
- **Transport Major**
- **Sustainable Energy Major**
### Master of Engineering

#### Elective Pool

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN542</td>
<td>Research Methods for Engineers</td>
</tr>
<tr>
<td>EN590</td>
<td>Statistical and Optimisation Methods for Engineers</td>
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<tr>
<td>EN590-1</td>
<td>Project 1</td>
</tr>
<tr>
<td>EN590-2</td>
<td>Project 2</td>
</tr>
</tbody>
</table>

#### OPTIONAL UNITS

- Select 48cp of units
- Students who successfully complete at least three units within one study area and project with a topic in the same study area will be eligible to graduate with that study area included in the award title.
- Students who complete four Optional Units from across various study areas (including selections from the Elective Pool - no more than 2 units from this set) will be eligible to graduate with no named study area included in the award title.

#### Electrical Engineering Major

- Advanced Communication Systems
- Advanced Network Engineering
- ENN580 Automated Control Systems

In addition, select one unit from the Optional Units offered in EN50

#### Mechanical Engineering Major

- Advanced Materials and Engineering Applications
- Advanced Engineering Design and Maintenance
- ENN552 Solar Thermal Systems - Heat and Power

In addition, select one unit from the Optional Units offered in EN50

#### Transport Major

- Transport Planning and Strategic Modelling
- ENN589 Intelligent Transport Systems
- ENN579 Advanced Traffic and Transit Operations

In addition, select one unit from the Optional Units offered in EN50

#### Sustainable Energy Major

- Renewable Energy and Energy Technologies, Energy Storage and Electricity Distribution Systems
- Energy Optimised Building and Communities
- ENN550 Energy Systems Fundamentals
- ENN552 Solar Thermal Systems - Heat and Power

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This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=EN50&courseID=20230. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=EN50&courseID=20230. CRICOS No.00213J)
# Master of Engineering (Systems)

## Handbooks

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<th>2012</th>
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<tr>
<td>Int. Start Months</td>
<td>February, July</td>
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<tr>
<td>Course Coordinator</td>
<td>Dr Dhammika Jayalath</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Science and Engineering Faculty 3138 8822 <a href="mailto:sef.enquiry@qut.edu.au">sef.enquiry@qut.edu.au</a></td>
</tr>
</tbody>
</table>

## Domestic Entry requirements

A four-year full-time bachelor degree in a relevant engineering discipline area and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

## International Entry requirements

A four-year full-time bachelor degree in a relevant engineering discipline area and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

## Minimum english requirements

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
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<tr>
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## Please Note:

EN50 Master of Engineering (Systems) will not be offered after Semester 1 2012, and will be replaced by EN50 Master of Engineering with the following new majors:

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>BEN610</td>
<td>Project Management Principles</td>
</tr>
<tr>
<td>ENN520</td>
<td>Advanced Signal Processing and Systems</td>
</tr>
<tr>
<td>ENN540</td>
<td>Engineering Optimisation</td>
</tr>
<tr>
<td>AMN435</td>
<td>Communication, Negotiation and Leadership</td>
</tr>
</tbody>
</table>

## Sample Structure

### Year 1, Semester 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEN610</td>
<td>Project Management Principles</td>
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<tr>
<td>ENN520</td>
<td>Advanced Signal Processing and Systems</td>
</tr>
<tr>
<td>ENN540</td>
<td>Engineering Optimisation</td>
</tr>
<tr>
<td>AMN435</td>
<td>Communication, Negotiation and Leadership</td>
</tr>
</tbody>
</table>

### Year 1, Semester 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>BEN710</td>
<td>Sustainable Practice in Built Environment and Engineering</td>
</tr>
<tr>
<td>BEN910</td>
<td>Integrated Project</td>
</tr>
<tr>
<td>ENN560</td>
<td>System Design</td>
</tr>
<tr>
<td>ENN580</td>
<td>Automated Control Systems</td>
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</tbody>
</table>

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This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=EN50&courseID=16350. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=EN50&courseID=16350. CRICOS No.00213J)
Master of Information Technology

<table>
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<th>Year</th>
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<td>Duration (full-time)</td>
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</tr>
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<td>Duration (part-time domestic)</td>
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<tr>
<td>Campus</td>
<td>Gardens Point</td>
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<tr>
<td>Domestic fee (indicative)</td>
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<tr>
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<td>February, July</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Dr Ross Hayward</td>
</tr>
</tbody>
</table>

**Domestic Entry requirements**
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

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**Minimum English requirements**
Students must meet the English proficiency requirements.

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<tbody>
<tr>
<td>speaking</td>
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<tr>
<td>writing</td>
<td>6.0</td>
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<tr>
<td>reading</td>
<td>6.0</td>
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<tr>
<td>listening</td>
<td>6.0</td>
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<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT43&courseID=15452. CRICOS No.00213 [QUT]
Master of Information Technology

Course Overview
Information technology is now firmly ensconced in society with all the other business practices that constitute modern organisations. This Master of Information Technology course has interfaculty contributions from the Faculties of Science & Engineering, Business, Creative Industries and Law, matching closely to their relevant IT research areas. Recognition of the burgeoning of specialised areas within the Information Industries is reflected in the structure of this course through ten different majors other than the "No Major" option:

• Software Architecture
• Enterprise Systems
• Games Production
• Games Design
• Security
• Library and Information Studies (Multimodal)
• Information Management
• Digital Environments
• Executive Information Practice

The structure of this course is designed so that a student does not have to decide on a major until after the first semester. Elective and core units may be selected first. Students must generally complete the core unit and seven units from within their major. The only exception to this structure is in the Library and Information Studies major.

Students who complete the Master of Information Technology (IT43) may return to complete the Master of Information Technology (Advanced) (IT44) at a later date and claim credit for all units completed in IT43.

Electives:
Students can generally select up to 4 electives; again, the exception is in the Library and Information Studies major, where students can select no more than two electives.

Non-cognate students are recommended to select three Basic Elective Units as their electives.

Students wishing to use the Masters program as a pathway to a PhD program within QUT are recommended to select 4 advanced research or project units as their electives. These students are also advised to enrol in INN700 Introduction to Research as part of their major.

It is possible, for students who wish, to complete dual Master degrees. Students can receive up to four units of credit for a previous Masters degree as part of their elective unit block. Thus, they are only required to complete the major and core. Students may then receive their Masters degree from the Science and Engineering Faculty in two semesters.

Students undertaking units from the MBA program (GSN units) in the Graduate School of Business (GSB) must meet the MBA entry requirements. Please see the GSB website for further information.

The Library and Information Studies major is offered in multimodal delivery allowing students to complete their studies either face-to-face or online.

Online Delivery
The Library and Information Studies major is offered in multimodal delivery allowing students to complete their studies either face-to-face or online.

The Executive Information Practice major is offered in external mode allowing students to complete their studies online.

Course completion rules
Students should meet the following requirements before they are able to complete the Masters program:

• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
• Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside the Science and Engineering Faculty.

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points.

Further Information
For further information about this course, please contact:

Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure
Course design
This course allows students who might like exposure to a number of units across several specialisation areas to undertake 84 credit points from any postgraduate Information Technology units offered. This program suits students who are not looking to undertake a discipline-specific postgraduate program, but rather complementary studies. This study area is the most flexible of the areas offered and thus is the default for students who do not select any major.

International Course structure
Course design
This course allows students who might like exposure to a number of units across several specialisation areas to undertake 84 credit points from any postgraduate Information Technology units offered. This program suits students who are not looking to undertake a discipline-specific postgraduate program, but rather complementary studies. This study area is the most flexible of the areas offered and thus is the default for students who do not select any major.

Sample Structure

Semesters

<table>
<thead>
<tr>
<th>Code</th>
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<td>INN500</td>
<td>PRINCE2 (R) Project Management</td>
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Major Study Areas

Software Architecture
Digital Environments
Enterprise Systems
Executive Information Practice
Games Design
Games Production
Information Management
Library and Information Studies
Network Management
Security

Special Entry Requirements
Library and Information Studies:
# Master of Information Technology

A bachelor degree in any discipline other than library and information studies with a grade point average of at least 4.5 (On a 7 points scale).

## Executive information practice:

Has core units from the MBA and as such must also meet the MBA entry requirements:

- Demonstrate competency in the English language
- Have a GMAT score of at least 500
- Have at least three years work experience
- At least 10 points from at least two of the three categories - prior work experience, academic achievement and management aptitude

- For further information, please see the table at: http://www.bus.qut.edu.au/courses/postgraduate/mba/
Master of Information Technology

Year: 2012
QUT code: IT43
CRICOS: 003776E
Duration (full-time): 1.5 years
Duration (part-time domestic): 3 years
Campus: Gardens Point

Domestic fee (indicative): 2012: $9400 per Semester
International fee (indicative): 2012: $11300 per Semester
Total credit points: 144
Credit points full-time sem.: 48
Credit points part-time sem.: 24
Start months: February, July
Int. Start Months: February, July
Course Coordinator: Dr Ross Hayward
Discipline Coordinator: Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

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Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

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Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>speaking</th>
<th>writing</th>
<th>reading</th>
<th>listening</th>
<th>overall</th>
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<tr>
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<td>6.0</td>
<td>6.5</td>
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</tbody>
</table>
Master of Information Technology

Domestic Course structure

Course design
This course allows students who might like exposure to a number of units across several specialisation areas to undertake 84 credit points from any postgraduate Information Technology units offered. This program suits students who are not looking to undertake a discipline-specific postgraduate program, but rather complementary studies. This study area is the most flexible of the areas offered and thus is the default for students who do not select any major.

International Course structure

Course design
This course allows students who might like exposure to a number of units across several specialisation areas to undertake 84 credit points from any postgraduate Information Technology units offered. This program suits students who are not looking to undertake a discipline-specific postgraduate program, but rather complementary studies. This study area is the most flexible of the areas offered and thus is the default for students who do not select any major.
Domestic Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

Minimum English requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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<tr>
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<tr>
<td>listening</td>
<td>6.0</td>
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<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>
Master of Information Technology (Digital Environments)

Career Progression
Graduates from the Digital Environments major will find positions in a broad range of industries and will be well placed to contribute to organisational success. Some key positions include online community manager, social network analyst, community organiser, e-marketer, web analyst, systems administrator, IT project manager, application developer, web developer, communications and marketing manager, IT manager, web manager, knowledge manager, IT analyst, technology officer, technology consultant.

Course completion rules
Students should meet the following requirements before they are able to complete the Masters program:
- Students are required to complete 144 credit points of units.
- Students are required to complete the specified core unit.
- Students wishing to specialise must complete the specific unit requirements for a major.
- Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

International Course structure
Students should meet the following requirements before they are able to complete the Masters program:
- Students are required to complete 144 credit points of units.
- Students are required to complete the specified core unit.
- Students wishing to specialise must complete the specific unit requirements for a major.
- Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Sample Structure

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<td>Elective Units</td>
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<table>
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<tbody>
<tr>
<td>INN500</td>
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<tr>
<td></td>
<td>Digital Environments major</td>
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<tr>
<td>INN345</td>
<td>Mobile Devices</td>
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<td>INN346</td>
<td>Enterprise 2.0</td>
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<td>INN347</td>
<td>Web 2.0 Applications</td>
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<td>INN540</td>
<td>User Experience</td>
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<td>INN690</td>
<td>Minor Project 1</td>
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<td>KCP408</td>
<td>Exploring New Media Worlds</td>
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In addition, select any (total of 12 cp) postgraduate IT units (INN code) not in the Basic Unit List.

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<th>Elective Units</th>
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<tr>
<td>Select any four Postgraduate units</td>
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Further Information
For further information about this course, please contact:
Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au
Master of Information Technology (Enterprise Systems)

<table>
<thead>
<tr>
<th><strong>Handbook</strong></th>
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<tbody>
<tr>
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<td><strong>QUT code</strong></td>
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<td><strong>Domestic fee (indicative)</strong></td>
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<td><strong>International fee (indicative)</strong></td>
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<tr>
<td><strong>Total credit points</strong></td>
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<tr>
<td><strong>Credit points full-time sem.</strong></td>
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<tr>
<td><strong>Credit points part-time sem.</strong></td>
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<tr>
<td><strong>Start months</strong></td>
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<tr>
<td><strong>Course Coordinator</strong></td>
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<tr>
<td><strong>Discipline Coordinator</strong></td>
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</table>

**Domestic Entry requirements**
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

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To be eligible for this Masters Coursework program, students must meet one of the following criteria:

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OR

- Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International Students:
International students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

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Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

**Minimum English requirements**
Students must meet the English proficiency requirements.

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<thead>
<tr>
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<tbody>
<tr>
<td>speaking</td>
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</tr>
<tr>
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<tr>
<td>overall</td>
</tr>
</tbody>
</table>
Career Progression
Careers include business analyst, systems analyst, systems manager or database manager.

Course completion rules
Students should meet the following requirements before they are able to complete the Masters program:
- Students are required to complete 144 credit points of units.
- Students are required to complete the specified core unit.
- Students wishing to specialise must complete the specific unit requirements for a major.
- Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points.

Further Information
For further information about this course, please contact:

Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure
Students should meet the following requirements before they are able to complete the Masters program:
- Students are required to complete 144 credit points of units.
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Sample Structure

Seminars
- Core
- Enterprise Systems major
- Elective Units

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INN500</td>
<td>PRINCE2 (R) Project Management</td>
</tr>
</tbody>
</table>

Enterprise Systems major
Select:
- INN311 Enterprise Systems
- INN312 Enterprise Systems Applications

In addition, select one unit from the following:
- INN690 Minor Project 1

OR
- INN610 Case Studies in Business Process Management

OR
Any Advanced Reading Enterprise System unit
In addition, select four of the following:
- INN220 Business Analysis
- INN321 Business Process Improvement
- INN340 Database Design
- INN341 Software Development With Oracle
- INN342 Enterprise Data Mining
- INN600 Advanced Readings 1
- INN601 Advanced Readings 2
- INN602 Advanced Readings 3
- INN605 Advanced Research 1

Elective Units
Select any four Postgraduate units
Domestic Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

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Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

Minumum English requirements

Students must meet the English proficiency requirements.

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<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>
Career Progression
Graduates of Executive Information Practice will take on key positions in middle and high level management in a broad range of industries. While the career outcomes from the major are limited only by the drive and imagination of the graduates, key positions could include chief information officer, IT program manager, library director, cultural services manager or senior librarian.

Special entry requirements
Executive Information Practice has core units from the MBS and as such must also meet the MBA entry requirements:
- Demonstrate competency in the English language
- Have a GMAT score of at least 500
- Have at least three years work experience
- At least 10 points from at least two of the three categories - prior work experience, academic achievement and management aptitude

For further information, including details regarding the allocation of points, please see the table at http://www.bgsb.qut.edu.au/study/entryreq

Course completion rules
Students should meet the following requirements before they are able to complete the Masters program:
- Students are required to complete 144 credit points of units.
- Students are required to complete the specified core unit.
- Students wishing to specialise must complete the specific unit requirements for a major.
- Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Early exit options
Students enrolled in this course may be eligible for advanced standing towards the qualification, making this major an excellent pathway to the MBA.

Domestic Course structure

Course design
This major is where the Master of Business Administration (MBA) meets IT, with MBA units incorporated into the course. This is the first Australian qualification designed to meet the needs of mid-career information and IT professionals who are seeking to advance their career opportunities. Very few qualifications provide the opportunity for midcareer professionals to further develop and refine their information and IT skills and knowledge while also having the opportunity to acquire a working knowledge of management practice.

Core units are offered by the areas of IT and business. You are able to study units in marketing, international business, accounting, public administration and evidence-based practice along with information security, systems and networks, information management, interaction design, data mining, and library and information science.

Those interested in pursuing a Master of Business Administration at QUT are eligible for advanced standing towards the qualification, making this major an excellent pathway to the MBA.

International Course structure

Course design
This major is where the Master of Business Administration (MBA) meets IT, with MBA units incorporated into the course. This is the first Australian qualification designed to meet the needs of mid-career information and IT professionals who are seeking to advance their career opportunities. Very few qualifications provide the opportunity for midcareer professionals to further develop and refine their information and IT skills and knowledge while also having the opportunity to acquire a working knowledge of management practice.

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Sample Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>INN633</td>
<td>Executive Information Practice</td>
</tr>
<tr>
<td>SPN645</td>
<td>Leadership, Policy and Change in Action</td>
</tr>
<tr>
<td>SPN625</td>
<td>Leadership Concepts, Theories and Issues</td>
</tr>
<tr>
<td>INN333</td>
<td>Information Programs</td>
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<tr>
<td>SPN646</td>
<td>Strategic Management</td>
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<tr>
<td>SPN626</td>
<td>Leading and Managing People</td>
</tr>
<tr>
<td>INN693</td>
<td>Project</td>
</tr>
</tbody>
</table>

Elective Units
Select any four University-wide Postgraduate units.
Domestic Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

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Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

Minimum english requirements

Students must meet the English proficiency requirements.

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<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>
Master of Information Technology (Games Design)

Career Progression
This postgraduate course allows a graduate to learn the process of designing games even when their profession is not in the games industry, e.g. education, training and simulation. A career outcome includes a games or simulation designer.

Course completion rules
Students should meet the following requirements before they are able to complete the Masters program:

- Students are required to complete 144 credit points of units.
- Students are required to complete the specified core unit.
- Students wishing to specialise must complete the specific unit requirements for a major.
- Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

International Course structure
Students should meet the following requirements before they are able to complete the Masters program:

- Students are required to complete 144 credit points of units.
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Early exit options
Students should meet the following requirements before they are able to complete the Masters program:

- Students are required to complete 144 credit points of units.
- Students are required to complete the specified core unit.
- Students wishing to specialise must complete the specific unit requirements for a major.
- Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
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Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
<th>Core</th>
<th>All of the following units:</th>
<th>In addition, select 3 of the following units:</th>
<th>Elective Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
<td>PRINCE2 (R) Project Management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>All of the following units:</td>
<td></td>
<td>Computer Games Studies</td>
<td>Interaction Design</td>
<td>Fundamentals of Game Design</td>
</tr>
<tr>
<td>In addition, select 3 of the following units:</td>
<td></td>
<td>Introduction to Games Production</td>
<td>Multimedia Systems</td>
<td>Advanced Multimedia Systems</td>
</tr>
</tbody>
</table>

Further Information
For further information about this course, please contact:

Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure
Students should meet the following requirements before they are able to complete the Masters program:

- Students are required to complete 144 credit points of units.
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>INN180</td>
<td>Computer Games Studies</td>
<td></td>
<td>Computer Games Studies</td>
<td>Interaction Design</td>
<td></td>
</tr>
<tr>
<td>INN272</td>
<td>Interaction Design</td>
<td></td>
<td>Interaction Design</td>
<td>Fundamentals of Game Design</td>
<td></td>
</tr>
<tr>
<td>INN280</td>
<td>Fundamentals of Game Design</td>
<td></td>
<td>Fundamentals of Game Design</td>
<td>Advanced Game Design</td>
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<tr>
<td>INN281</td>
<td>Advanced Game Design</td>
<td></td>
<td>Advanced Game Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INN181</td>
<td>Introduction to Games Production</td>
<td></td>
<td>Introduction to Games Production</td>
<td></td>
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</tr>
<tr>
<td>INN385</td>
<td>Multimedia Systems</td>
<td></td>
<td>Multimedia Systems</td>
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<tr>
<td>INN386</td>
<td>Advanced Multimedia Systems</td>
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<td>Advanced Multimedia Systems</td>
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<tr>
<td>INN600</td>
<td>Advanced Readings 1</td>
<td></td>
<td>Advanced Readings 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Domestic Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
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</tbody>
</table>
Master of Information Technology (Games Production)

Course completion rules
Students should meet the following requirements before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
• Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Sample Structure

Semesters
• Core
• All of the following units:
• In addition, select 3 of the following units:
• Select any four elective Units from the list below:

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>INN500</td>
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<tr>
<td>INN180</td>
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</tr>
<tr>
<td>INN181</td>
<td>Introduction to Games Production</td>
</tr>
<tr>
<td>INN600</td>
<td>Advanced Readings 1</td>
</tr>
<tr>
<td>INN601</td>
<td>Advanced Readings 2</td>
</tr>
<tr>
<td>INN220</td>
<td>Business Analysis</td>
</tr>
<tr>
<td>INN321</td>
<td>Business Process Improvement</td>
</tr>
<tr>
<td>INN330</td>
<td>Information Management</td>
</tr>
<tr>
<td>INN311</td>
<td>Enterprise Systems</td>
</tr>
<tr>
<td>INN700</td>
<td>Introduction To Research</td>
</tr>
<tr>
<td>INN701</td>
<td>Advanced Research Topics</td>
</tr>
</tbody>
</table>

Select any four elective Units from the list below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>GSN401</td>
<td>Managing in the Global Business Environment</td>
</tr>
<tr>
<td>GSN405</td>
<td>Strategic Management</td>
</tr>
<tr>
<td>GSN413</td>
<td>Financial Management 1</td>
</tr>
<tr>
<td>GSN415</td>
<td>Understanding Leadership</td>
</tr>
<tr>
<td>GSN416</td>
<td>Business Plans 1</td>
</tr>
<tr>
<td>INN690</td>
<td>Minor Project 1</td>
</tr>
<tr>
<td>INN691</td>
<td>Minor Project 2</td>
</tr>
<tr>
<td>INN692</td>
<td>Minor Project 3</td>
</tr>
<tr>
<td>INN693</td>
<td>Project</td>
</tr>
<tr>
<td>INN694-1</td>
<td>Project</td>
</tr>
<tr>
<td>INN694-2</td>
<td>Project</td>
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</tbody>
</table>

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points.

Further Information
For further information about this course, please contact:
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Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

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• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

International Course structure
Students should meet the following requirements before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
Master of Information Technology (Information Management)

**Domestic Entry requirements**
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

**International Entry requirements**
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

**Minimum English requirements**
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>
Master of Information Technology (Information Management)

Course completion rules
Students should meet the following requirements before they are able to complete the Masters program:
- Students are required to complete 144 credit points of units.
- Students are required to complete the specified core unit.
- Students wishing to specialise must complete the specific unit requirements for a major.
- Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points.

Further Information
For further information about this course, please contact:
Ross Hayward or Helen Partridge
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Sample Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INN500</td>
<td>PRINCE2 (R) Project Management</td>
</tr>
<tr>
<td>INN330</td>
<td>Information Management</td>
</tr>
<tr>
<td>INN331</td>
<td>Management Issues for Information Professionals</td>
</tr>
<tr>
<td>INN332</td>
<td>Information Retrieval</td>
</tr>
<tr>
<td>INN530</td>
<td>Online Information Services</td>
</tr>
<tr>
<td>INN533</td>
<td>Information Organisation</td>
</tr>
<tr>
<td>INN540</td>
<td>User Experience</td>
</tr>
<tr>
<td>INN690</td>
<td>Minor Project 1</td>
</tr>
</tbody>
</table>

Elective Units
Select any four Postgraduate Units

Domestic Course structure
Students should meet the following requirements before they are able to complete the Masters program:
- Students are required to complete 144 credit points of units.
- Students are required to complete the specified core unit.
- Students wishing to specialise must complete the specific unit requirements for a major.
- Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

International Course structure
Students should meet the following requirements before they are able to complete the Masters program:

For the most up-to-date course information, visit
Master of Information Technology (Library and Information Studies)

<table>
<thead>
<tr>
<th>Handbook</th>
<th></th>
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<tbody>
<tr>
<td><strong>Year</strong></td>
<td>2012</td>
</tr>
<tr>
<td><strong>QUT code</strong></td>
<td>IT43</td>
</tr>
<tr>
<td><strong>CRICOS</strong></td>
<td>003776E</td>
</tr>
<tr>
<td><strong>Duration (full-time)</strong></td>
<td>1.5 years</td>
</tr>
<tr>
<td><strong>Duration (part-time domestic)</strong></td>
<td>3 years</td>
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<tr>
<td><strong>Campus</strong></td>
<td>Gardens Point</td>
</tr>
<tr>
<td><strong>Domestic fee (indicative)</strong></td>
<td>2012: $9400 per Semester</td>
</tr>
<tr>
<td><strong>International fee (indicative)</strong></td>
<td>2012: $11300 per Semester</td>
</tr>
<tr>
<td><strong>Total credit points</strong></td>
<td>144</td>
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<tr>
<td><strong>Credit points full-time sem.</strong></td>
<td>48</td>
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<tr>
<td><strong>Credit points part-time sem.</strong></td>
<td>24</td>
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<tr>
<td><strong>Dom. Start Months</strong></td>
<td>February, July</td>
</tr>
<tr>
<td><strong>July offering is part-time only.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Course Coordinator</strong></td>
<td>Dr Ross Hayward</td>
</tr>
<tr>
<td><strong>Discipline Coordinator</strong></td>
<td>Science and Engineering Faculty 3138 8822 <a href="mailto:sef.enquiry@qut.edu.au">sef.enquiry@qut.edu.au</a></td>
</tr>
</tbody>
</table>

**Domestic Entry requirements**

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

**OR**

- Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:

Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

**International Entry requirements**

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- Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

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Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

**Minimum English requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
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<td>writing</td>
<td>6.0</td>
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<tr>
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</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT43&courseID=15473. CRICOS No.00213J.
Professional Recognition
Graduates from the specialisation will be eligible for associate membership of the Australian Library and Information Association (ALIA).

Course completion rules
Before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
• Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Online delivery
The Library and Information Science major is offered in multimodal delivery allowing students to complete their studies either face-to-face or online.

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points.

Further Information
For further information about this course, please contact:
Ross Hayward or Helen Partridge
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

International Course structure
Before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
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• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
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<tbody>
<tr>
<td>Core</td>
<td>Select all of the following units:</td>
</tr>
<tr>
<td>INN690</td>
<td>Minor Project 1</td>
</tr>
<tr>
<td>INN330</td>
<td>Information Management</td>
</tr>
<tr>
<td>INN331</td>
<td>Management Issues for Information Professionals</td>
</tr>
<tr>
<td>INN332</td>
<td>Information Retrieval</td>
</tr>
<tr>
<td>INN333</td>
<td>Information Programs</td>
</tr>
<tr>
<td>INN530</td>
<td>Online Information Services</td>
</tr>
<tr>
<td>INN531</td>
<td>Collections Management</td>
</tr>
<tr>
<td>INN532</td>
<td>Information Literacy Education</td>
</tr>
<tr>
<td>INN533</td>
<td>Information Organisation</td>
</tr>
<tr>
<td>INN634</td>
<td>Professional Practice</td>
</tr>
<tr>
<td>Elective Units</td>
<td>Select any two Postgraduate units</td>
</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT43&courseID=15473. CRICOS No.00213J
Master of Information Technology (Network Management)

Year: 2012
QUT code: IT43
CRICOS: 003776E
Duration (full-time): 1.5 years
Duration (part-time domestic): 3 years
Campus: Gardens Point

Domestic fee (indicative) 2012: $9400 per Semester
International fee (indicative) 2012: $11300 per Semester
Total credit points: 144
Credit points full-time sem.: 48
Credit points part-time sem.: 24
Start months: February, July
Int. Start Months: February, July
Course Coordinator: Dr Ross Hayward
Discipline Coordinator: Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

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Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

Minimum English requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>speaking</th>
<th>writing</th>
<th>reading</th>
<th>listening</th>
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<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
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Course completion rules
Students should meet the following requirements before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
• Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points.

Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
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<th>Core</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>All of the following units:</td>
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<tr>
<td></td>
<td></td>
<td>In addition, select 3 of the following units:</td>
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<tr>
<td></td>
<td></td>
<td>Elective Units</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>INN500</td>
<td>PRINCE2 (R) Project Management</td>
<td></td>
</tr>
<tr>
<td>INN350</td>
<td>Internet Protocols and Services</td>
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</tr>
<tr>
<td>INN351</td>
<td>Unix Network Administration</td>
<td></td>
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<tr>
<td>INN352</td>
<td>Network Planning</td>
<td></td>
</tr>
<tr>
<td>INN650</td>
<td>Advanced Network Management</td>
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</tr>
</tbody>
</table>

In addition, select 3 of the following units:

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>INN255</td>
<td>Security</td>
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<td>INN353</td>
<td>Wireless and Mobile Networks</td>
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<tr>
<td>INN355</td>
<td>Cryptology and Protocols</td>
</tr>
<tr>
<td>INN550</td>
<td>Computer Forensics</td>
</tr>
<tr>
<td>INN600</td>
<td>Advanced Readings 1</td>
</tr>
<tr>
<td>INN601</td>
<td>Advanced Readings 2</td>
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<td>INN602</td>
<td>Advanced Readings 3</td>
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<td>Advanced Research 1</td>
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<td>Advanced Research 2</td>
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<td>INN607</td>
<td>Advanced Research 3</td>
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<td>INN651</td>
<td>Security Technologies</td>
</tr>
<tr>
<td>INN652</td>
<td>Advanced Cryptology</td>
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<tr>
<td>INN700</td>
<td>Introduction To Research</td>
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<tr>
<td>INN701</td>
<td>Advanced Research Topics</td>
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<tr>
<td>INS450</td>
<td>CCNA 1 and 2 Network Fundamentals and Routing</td>
</tr>
<tr>
<td>INS451</td>
<td>CCNA 3 and 4 Lan Switching</td>
</tr>
<tr>
<td>INS452</td>
<td>CCNP Route</td>
</tr>
<tr>
<td>INS456</td>
<td>CISCO Security</td>
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<tr>
<td>INS454</td>
<td>CCNP Switch</td>
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<tr>
<td>INS457</td>
<td>CISCO VOIP</td>
</tr>
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</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT43&courseID=15474. CRICOS No.00213J
**Domestic Entry requirements**

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:

Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

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<td>overall</td>
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</table>
Course completion rules
Students should meet the following requirements before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
• Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points.

Further Information
For further information about this course, please contact:
Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure
You should meet the following requirements to complete the Masters program:
• you are required to complete 144 credit points of units
• you are required to complete the specified core unit
• if you wish to specialise, you must complete the specific unit requirements for a major
• if you wish to complete your postgraduate studies without a single area of specialisation, you must satisfy the unit requirements for graduation with no major
• you may be allowed to take up to 4 units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

International Course structure
You should meet the following requirements to complete the Masters program:
• you are required to complete 144 credit points of units

Sample Structure

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
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<tr>
<td>INN500</td>
<td>PRINCE2 (R) Project Management</td>
</tr>
<tr>
<td>All of the following units:</td>
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<td>INN255</td>
<td>Security</td>
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<tr>
<td>INN651</td>
<td>Security Technologies</td>
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<td>INN355</td>
<td>Cryptology and Protocols</td>
</tr>
<tr>
<td>INN550</td>
<td>Computer Forensics</td>
</tr>
<tr>
<td>INN600</td>
<td>Advanced Readings 1</td>
</tr>
<tr>
<td>INN601</td>
<td>Advanced Readings 2</td>
</tr>
<tr>
<td>INN602</td>
<td>Advanced Readings 3</td>
</tr>
<tr>
<td>INN605</td>
<td>Advanced Research 1</td>
</tr>
<tr>
<td>INN606</td>
<td>Advanced Research 2</td>
</tr>
<tr>
<td>INN607</td>
<td>Advanced Research 3</td>
</tr>
<tr>
<td>INN652</td>
<td>Advanced Cryptology</td>
</tr>
<tr>
<td>INN690</td>
<td>Minor Project 1</td>
</tr>
<tr>
<td>INN691</td>
<td>Minor Project 2</td>
</tr>
<tr>
<td>INN692</td>
<td>Minor Project 3</td>
</tr>
<tr>
<td>INN693</td>
<td>Project</td>
</tr>
<tr>
<td>INN694-1</td>
<td>Project 1</td>
</tr>
<tr>
<td>INN694-2</td>
<td>Project</td>
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<td>INN695</td>
<td>Major Project</td>
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<td>INN696-1</td>
<td>Major Project 1</td>
</tr>
<tr>
<td>INN696-2</td>
<td>Major Project 2</td>
</tr>
<tr>
<td>INN700</td>
<td>Introduction To Research</td>
</tr>
<tr>
<td>GSN440</td>
<td>Risk Management 1</td>
</tr>
<tr>
<td>JSN106</td>
<td>Analytical Methods of Intelligence</td>
</tr>
</tbody>
</table>

Effective Units
Select any four Postgraduate Units

Further Information
For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT43&courseID=15475. CRICOS No.00213J
Master of Information Technology (Software Architecture)

<table>
<thead>
<tr>
<th>Handbook</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year</strong></td>
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<tr>
<td><strong>QUT code</strong></td>
<td>IT43</td>
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<tr>
<td><strong>CRICOS</strong></td>
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<tr>
<td><strong>Duration (full-time)</strong></td>
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<tr>
<td><strong>Duration (part-time domestic)</strong></td>
<td>3 years</td>
</tr>
<tr>
<td><strong>Campus</strong></td>
<td>Gardens Point</td>
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<tr>
<td><strong>Domestic fee (indicative)</strong></td>
<td>2012: $9400 per Semester</td>
</tr>
<tr>
<td><strong>International fee (indicative)</strong></td>
<td>2012: $11300 per Semester</td>
</tr>
<tr>
<td><strong>Total credit points</strong></td>
<td>144</td>
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<tr>
<td><strong>Credit points full-time sem.</strong></td>
<td>48</td>
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<td><strong>Credit points part-time sem.</strong></td>
<td>24</td>
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<tr>
<td><strong>Start months</strong></td>
<td>February, July</td>
</tr>
<tr>
<td><strong>Int. Start Months</strong></td>
<td>February, July</td>
</tr>
<tr>
<td><strong>Course Coordinator</strong></td>
<td>Dr Ross Hayward</td>
</tr>
<tr>
<td><strong>Discipline Coordinator</strong></td>
<td>Science and Engineering Faculty 3138 8822 <a href="mailto:sef.enquiry@qut.edu.au">sef.enquiry@qut.edu.au</a></td>
</tr>
</tbody>
</table>

**Domestic Entry requirements**

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

**International Entry requirements**

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

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Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

**Minimum English requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>
Master of Information Technology (Software Architecture)

Course completion rules
Students should meet the following requirements before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
• Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Sample Structure

Seminesters

• Core
• All of the following units:
  • In addition, select 3 of the following units:
  • Elective Units

Elective Units
Select any four Postgraduate Units

International Course structure
You should meet the following requirements to complete the Masters program:
• you are required to complete 144 credit points of units
• you are required to complete the specified core unit
• if you wish to specialise, you must complete the specific unit requirements for a major
• if you wish to complete your postgraduate studies without a single area of specialisation, you must satisfy the unit requirements for graduation with no major
• you may be allowed to take up to 4 units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.
**Domestic Entry requirements**

**Entry requirements**
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

**International Entry requirements**

**Entry requirements**
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

**Minimum English requirements**

Students must meet the English proficiency requirements.

**IELTS (International English Language Testing System)**

<table>
<thead>
<tr>
<th>Speaking</th>
<th>Writing</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0</td>
<td>6.0</td>
</tr>
</tbody>
</table>
enrol in INN700 Introduction to Research as part of their major and take INN701 Advanced Research Methodologies as an elective.

It is possible for students to complete dual Master degrees. Students can receive up to four units of credit for a previous Masters degree as part of their elective unit block. Thus, they are only required to complete the major and core. Students may then receive their Masters degree from the Science and Engineering Faculty in two semesters.

Students undertaking units from the MBA program (GSN units) in the Graduate School of Business (GSB) must meet the MBA entry requirements. Please see the GSB website for further information.

**Course completion rules**

Students should meet the following requirements before they are able to complete the Masters Advanced program:

- Students are required to complete 192 credit points of units.
- Students are required to complete the specified core unit.
- Students seeking a single area of specialisation must complete the specific unit requirements for a major.
- Students not seeking a single area of specialisation may graduate with no major.
- Students must complete 48 credit points of project or advanced research units.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

**Early exit options**

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

**Further Information**

For further information about this course, please contact:

Dr Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

**Sample Structure**

**Seminars**

- **Core**
- **Major Study Areas**
- **Special Entry Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>INN500</td>
<td>PRINCE2 (R) Project Management</td>
</tr>
</tbody>
</table>

**Major Study Areas**

- No Major (Information Technology)
- Digital Environments
- Enterprise Systems
- Executive Information Practice
- Games Design
- Games Production
- Information Management
- Library and Information Studies
- Network Management
- Security
- Software Architecture

**Special Entry Requirements**

- Library and Information Studies:
  - A bachelor degree in any discipline other than library and information science with a grade point average of at least 4.5 (On a 7 points scale).
Master of Information Technology (Advanced)

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<th>Year</th>
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<tbody>
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<tr>
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<tr>
<td>Duration (full-time)</td>
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<tr>
<td>Duration (part-time domestic)</td>
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<tr>
<td>Campus</td>
<td>Gardens Point</td>
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<tr>
<td>Domestic fee (indicative)</td>
<td>2012: $9400 per Semester</td>
</tr>
<tr>
<td>International fee (indicative)</td>
<td>2012: $11300 per Semester</td>
</tr>
<tr>
<td>Total credit points</td>
<td>192</td>
</tr>
<tr>
<td>Credit points full-time sem.</td>
<td>48</td>
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<tr>
<td>Credit points part-time sem.</td>
<td>24</td>
</tr>
<tr>
<td>Start months</td>
<td>February, July</td>
</tr>
<tr>
<td>Int. Start Months</td>
<td>February, July</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Dr Ross Hayward</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Science and Engineering Faculty 3138 8822 <a href="mailto:sef.enquiry@qut.edu.au">sef.enquiry@qut.edu.au</a></td>
</tr>
</tbody>
</table>

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
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<tr>
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<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Domestic Course structure
Course design
This course allows students who might like exposure to a number of units across several specialisation areas to undertake 84 credit points from any postgraduate Information Technology units offered. This program suits students who are not looking to undertake a discipline-specific postgraduate program, but rather complementary studies. This study area is the most flexible of the areas offered and thus is the default for students who do not select any major.

International Course structure
Course design
This course allows students who might like exposure to a number of units across several specialisation areas to undertake 84 credit points from any postgraduate Information Technology units offered. This program suits students who are not looking to undertake a discipline-specific postgraduate program, but rather complementary studies. This study area is the most flexible of the areas offered and thus is the default for students who do not select any major.
Master of Information Technology (Advanced) (Digital Environments)

Domestic Entry requirements

Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International Entry requirements

Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Minimum English requirements

Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<table>
<thead>
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<tr>
<td>Writing</td>
<td>6.0</td>
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<tr>
<td>Reading</td>
<td>6.0</td>
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</tbody>
</table>

Overview

Web technologies and applications are reshaping contemporary organisations. This major allows you to study how developments in IT shape society through applications like Facebook, MySpace, Second Life, Smart Phones, iPods and gaming devices.

This major has been designed to meet the needs of professionals and organisations seeking to harness the benefits of social computing to advance business goals. Students will explore the ways in which IT has altered the production of knowledge, community building collaboration and the design and delivery of organisational activities and services. This major is aimed at professionals and organisations seeking to be not just IT-savvy users but leaders and innovators.

Why study this Major?

Increasingly, web 2.0 technologies such as wikis, blogs and social networks are being used within organisations. A future trend will see successful contemporary professionals and organisations requiring expertise in not just business and management practice but in the critical design, use and consequences of new and emerging social technologies. The Digital Environments major represents a new and emerging field for the IT discipline. It symbolises the growing interlink between IT, business and society.

Career Progression

Graduates from the Digital Environments major will find positions in a broad range of industries and will be well placed to contribute to organisational success. Some key positions include online community manager, social network analyst, community organiser, e-marketer, web analyst, systems administrator, IT project manager, application developer, web developer, communications and marketing manager, IT manager, web manager, knowledge manager, IT analyst, technology officer, technology consultant.

Course completion rules

Course completion rules
Students should meet the following requirements before they are able to complete the Masters Advanced program:

• Students are required to complete 192 credit points of units.
Master of Information Technology (Advanced) (Digital Environments)

• Students are required to complete the specified core unit.
• Students seeking a single area of specialisation must complete the specific unit requirements for a major.
• Students not seeking a single area of specialisation may graduate with no major.
• Students must complete 48 credit points of project or advanced research units.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information
For further information about this course, please contact:

Jason Watson
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure
Course completion rules
Students should meet the following requirements before they are able to complete the Masters

Advanced program:
• Students are required to complete 192 credit points of units.
• Students are required to complete the specified core unit.
• Students seeking a single area of specialisation must complete the specific unit requirements for a major.
• Students not seeking a single area of specialisation may graduate with no major.
• Students must complete 48 credit points of project or advanced research units.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Sample Structure

<table>
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<th>Semesters</th>
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<table>
<thead>
<tr>
<th>Core</th>
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<tbody>
<tr>
<td>INN500</td>
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Select all of the following units:

<table>
<thead>
<tr>
<th>Elective Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INN345 Mobile Devices</td>
</tr>
<tr>
<td>INN346 Enterprise 2.0</td>
</tr>
<tr>
<td>INN347 Web 2.0 Applications</td>
</tr>
<tr>
<td>INN540 User Experience</td>
</tr>
<tr>
<td>INN690 Minor Project 1</td>
</tr>
<tr>
<td>KCP408 Exploring New Media Worlds</td>
</tr>
</tbody>
</table>

In addition, select any (total of 12 cp) postgraduate IT units (INN code) not in the Basic Unit List.

<table>
<thead>
<tr>
<th>Advanced Research Units (Project units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students of IT44 are required to complete 48cp of advanced research/project units in the forms of a 48cp Dissertation or two 24cp Projects.</td>
</tr>
</tbody>
</table>

International Course structure
Course completion rules
Students should meet the following requirements before they are able to...
**Domestic Entry requirements**

**Entry requirements**
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

**International Entry requirements**

**Entry requirements**
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

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- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

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**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>speaking</th>
<th>writing</th>
<th>reading</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
</tr>
</tbody>
</table>

**Course completion rules**

Students should meet the following requirements before they are able to complete the Masters Advanced program:

- Students are required to complete 192 credit points of units.
- Students are required to complete the specified core unit.
- Students seeking a single area of specialisation must complete the specific unit requirements for a major.
- Students not seeking a single area of specialisation may graduate with no major.
- Students must complete 48 credit points of project or advanced research units.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

**Early exit options**

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

**Further Information**

For further information on this course please contact:

Dr Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

**Domestic Course structure**

**Course completion rules**

Students should meet the following requirements before they are able to complete the Masters Advanced program:

- Students are required to complete 192 credit points of units.
- Students are required to complete the specified core unit.
- Students seeking a single area of specialisation must complete the specific unit requirements for a major.
- Students not seeking a single area of specialisation may graduate with no major.
- Students must complete 48 credit points of project or advanced research units.
- Students may be allowed to take up
Master of Information Technology (Advanced) (Enterprise Systems)

to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

International Course structure

Course completion rules

Students should meet the following requirements before they are able to complete the Masters Advanced program:

- Students are required to complete 192 credit points of units.
- Students are required to complete the specified core unit.
- Students seeking a single area of specialisation must complete the specific unit requirements for a major.
- Students not seeking a single area of specialisation may graduate with no major.
- Students must complete 48 credit points of project or advanced research units.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Sample Structure

Semesters

- Core
  - Select Three Units from:
  - In addition, select four of the following units:
  - Elective Units
  - Advanced Research Units (Project Units)

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>INN00</td>
<td>PRINCE2 (R) Project Management</td>
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</tbody>
</table>

Select Three Units from:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INN31</td>
<td>Enterprise Systems</td>
</tr>
<tr>
<td>INN32</td>
<td>Enterprise Systems Applications</td>
</tr>
</tbody>
</table>

In addition, choose between the following:

OR

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>INN610</td>
<td>Case Studies in Business Process Management</td>
</tr>
<tr>
<td>INN690</td>
<td>Minor Project 1</td>
</tr>
</tbody>
</table>

OR

Advanced Reading Enterprise System unit

In addition, select four of the following units:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INN220</td>
<td>Business Analysis</td>
</tr>
<tr>
<td>INN320</td>
<td>Business Process Modelling</td>
</tr>
</tbody>
</table>
**Domestic Entry requirements**

**Entry requirements**
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

**International Entry requirements**

**Entry requirements**
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
</tbody>
</table>
Master of Information Technology (Advanced) (Executive Information Practice)

Course completion rules
Students should meet the following requirements before they are able to complete the Masters Advanced program:
- Students are required to complete 192 credit points of units.
- Students are required to complete the specified core unit.
- Students seeking a single area of specialisation must complete the specific unit requirements for a major.
- Students not seeking a single area of specialisation may graduate with no major.
- Students must complete 48 credit points of project or advanced research units.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further information
For further information about this course, please contact:

Dr Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure
Course design
This major is where the Master of Business Administration (MBA) meets IT, with MBA units incorporated into the course. This is the first Australian qualification designed to meet the needs of mid-career information and IT professionals who are seeking to advance their career opportunities. Very few qualifications provide the opportunity for midcareer professionals to further develop and refine their information and IT skills and knowledge while also having the opportunity to acquire a working knowledge of management practice.

Core units are offered by the areas of IT and business. You are able to study units in marketing, international business, accounting, public administration and evidence-based practice along with information security, systems and networks, information management, interaction design, data mining, and library and information science.

Those interested in pursuing a Master of Business Administration at QUT are eligible for advanced standing towards the qualification, making this major an excellent pathway to the MBA.

Course completion rules
- Students should meet the following requirements before they are able to complete the Masters Advanced program:
  - Students are required to complete 192 credit points of units.
  - Students are required to complete the specified core unit.
- Students seeking a single area of specialisation must complete the specific unit requirements for a major.
- Students not seeking a single area of specialisation may graduate with no major.
- Students must complete 48 credit points of project or advanced research units.
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International Course structure

Course design

This major is where the Master of Business Administration (MBA) meets IT, with MBA units incorporated into the course. This is the first Australian qualification designed to meet the needs of mid-career information and IT professionals who are seeking to advance their career opportunities. Very few qualifications provide the opportunity for midcareer professionals to further develop and refine their information and IT skills and knowledge while also having the opportunity to acquire a working knowledge of management practice.

Core units are offered by the areas of IT and business. You are able to study units in marketing, international business, accounting, public administration and evidence-based practice along with information security, systems and networks, information management, interaction design, data mining, and library and information science.

Those interested in pursuing a Master of Business Administration at QUT are eligible for advanced standing towards the qualification, making this major an excellent pathway to the MBA.

Course completion rules
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  - Students are required to complete 192 credit points of units.
  - Students are required to complete the specified core unit.
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Sample Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>INN633</td>
<td>Executive Information Practice</td>
</tr>
<tr>
<td>SPN645</td>
<td>Leadership, Policy and Change in Action</td>
</tr>
<tr>
<td>SPN625</td>
<td>Leadership Concepts, Theories and Issues</td>
</tr>
<tr>
<td>INN333</td>
<td>Information Programs</td>
</tr>
<tr>
<td>SPN646</td>
<td>Strategic Management</td>
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<tr>
<td>SPN626</td>
<td>Leading and Managing People</td>
</tr>
<tr>
<td>INN693</td>
<td>Project</td>
</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT44&courseID=15220. CRICOS No. 00213J
Master of Information Technology (Advanced) (Games Design)

Domestic Entry requirements

Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International Entry requirements

Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

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Minimum english requirements

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>reading</th>
<th>listening</th>
<th>overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
<td>6.0</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Overview

This course focuses on developing the design and storytelling skills required to create games and interactive technology. You will have the opportunity to develop and apply these skills to your own discipline area. You will develop advanced project management skills together with the capability to analyse design and requirements appropriate to interactive environments, taking into consideration such aspects as the type of interaction required for your targeted users and the social implications of that interaction. You will also have the opportunity to research and apply the most up-to-date methods and techniques in this discipline. This course allows current industry members to take those skills that they have already acquired and extend them to support career development.

Why study this Major?

As entertainment technologies improve so do the expectations of the users of these technologies. Entertainment technologies have expanded to other applications such as education, simulation, training and more. Young people are growing up in a world of three-dimensional virtual environments. This course gives people within industries not traditionally related to entertainment the opportunity to develop skills within this area to enhance interactive techniques applicable to their own discipline. It allows members of unrelated industries to take the skills developed over many years in the interactive entertainment industries and apply them within a different context.

Career Progression

This postgraduate course allows a graduate to learn the process of designing games even when their profession is not in the games industry, e.g. education, training and simulation. A career outcome includes a games or simulation designer.

Course completion rules

Before they are able to complete the Masters Advanced program:

• Students are required to complete 192 credit points of units.

• Students are required to complete the specified core unit.

• Students seeking a single area of
specialisation must complete the specific unit requirements for a major.
• Students not seeking a single area of specialisation may graduate with no major.
• Students must complete 48 credit points of project or advanced research units.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information
For further information about this course, please contact:
Dr Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure
Course completion rules
Before they are able to complete the Masters Advanced program:
• Students are required to complete 192 credit points of units.
• Students are required to complete the specified core unit.
• Students seeking a single area of specialisation must complete the specific unit requirements for a major.
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Sample Structure
Semesters

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>INN500</td>
<td>PRINCE2 (R) Project Management</td>
</tr>
<tr>
<td>All of the following units:</td>
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</tr>
<tr>
<td>INN180</td>
<td>Computer Games Studies</td>
</tr>
<tr>
<td>INN272</td>
<td>Interaction Design</td>
</tr>
<tr>
<td>INN280</td>
<td>Fundamentals of Game Design</td>
</tr>
<tr>
<td>INN281</td>
<td>Advanced Game Design</td>
</tr>
<tr>
<td>In addition, select 3 of the following units:</td>
<td></td>
</tr>
<tr>
<td>INN181</td>
<td>Introduction to Games Production</td>
</tr>
<tr>
<td>INN385</td>
<td>Multimedia Systems</td>
</tr>
<tr>
<td>INN386</td>
<td>Advanced Multimedia Systems</td>
</tr>
<tr>
<td>INN600</td>
<td>Advanced Readings 1</td>
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<tr>
<td>INN601</td>
<td>Advanced Readings 2</td>
</tr>
<tr>
<td>INN700</td>
<td>Introduction To Research</td>
</tr>
<tr>
<td>KIB201</td>
<td>Concept Development for Game Design and Interactive Media</td>
</tr>
<tr>
<td>KIB202</td>
<td>Enabling Immersion</td>
</tr>
<tr>
<td>INN381</td>
<td>Modelling and Animation Techniques</td>
</tr>
<tr>
<td>INN382</td>
<td>Real Time Rendering Techniques</td>
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<td>INN383</td>
<td>AI for Games</td>
</tr>
<tr>
<td>MAN281</td>
<td>Mathematics for Computer Graphics</td>
</tr>
<tr>
<td>INN701</td>
<td>Advanced Research Topics</td>
</tr>
<tr>
<td>INN282</td>
<td>Games Level Design</td>
</tr>
</tbody>
</table>

Elective Units
Select any four Postgraduate Units.

Advanced Research Units (Project Units)
Domestic Entry requirements

Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International Entry requirements

Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

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Minimum English requirements

Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<table>
<thead>
<tr>
<th>Test</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaking</td>
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</tr>
<tr>
<td>Writing</td>
<td>6.0</td>
</tr>
<tr>
<td>Reading</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Overview

This course focuses on developing managerial skills required to produce games; that is, the management of a team and the production of an interactive project. You will establish an understanding of the production process and the skills relating to the management of a team of people in a creative environment. You will also have the opportunity to gain hands-on experience in this endeavour through the supervision of undergraduate final-year project teams from project inception to completion.

Why study this Major?

As the video games and related industries develop, so does the need for people within those industries, to enhance their skills beyond the technical to production and management. The Games Production stream has been developed to meet the skill sets required at higher management levels. It allows current industry members to take those skills that they have already acquired and extend them to support career development.

Career Progression

Games production is an exciting multibillion dollar emerging industry. Careers include game/simulation developer or game/simulation producer. If you already work in the games or related industries, you could progress your career to management or executive-level positions.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters Advanced program:

• Students are required to complete 192 credit points of units.
• Students are required to complete the specified core unit.
• Students seeking a single area of specialisation must complete the specific unit requirements for a major.
• Students not seeking a single area of specialisation may graduate with no major.
• Students must complete 48 credit points of project or advanced research units.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.
Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information
For further information about this course, please contact:
Dr Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure
Course completion rules
Before they are able to complete the Masters Advanced program:
- Students are required to complete 192 credit points of units.
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International Course structure
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- Students are required to complete 192 credit points of units.
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Sample Structure
Semesters
- Core
- All of the following units:
- In addition, select 3 of the following units:
- Select any four elective units from the list below:
- Advanced Research Units (Project Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
</tr>
<tr>
<td>INN500</td>
<td>PRINCE2 (R) Project Management</td>
</tr>
<tr>
<td>All of the following units:</td>
<td></td>
</tr>
<tr>
<td>INN180</td>
<td>Computer Games Studies</td>
</tr>
<tr>
<td>INN181</td>
<td>Introduction to Games Production</td>
</tr>
<tr>
<td>INN600</td>
<td>Advanced Readings 1</td>
</tr>
<tr>
<td>INN601</td>
<td>Advanced Readings 2</td>
</tr>
<tr>
<td>Select any four elective units from the list below:</td>
<td></td>
</tr>
<tr>
<td>INN220</td>
<td>Business Analysis</td>
</tr>
<tr>
<td>INN311</td>
<td>Enterprise Systems</td>
</tr>
<tr>
<td>INN321</td>
<td>Business Process Improvement</td>
</tr>
<tr>
<td>INN330</td>
<td>Information Management</td>
</tr>
<tr>
<td>INN700</td>
<td>Introduction To Research</td>
</tr>
<tr>
<td>INN701</td>
<td>Advanced Research Topics</td>
</tr>
</tbody>
</table>

Advanced Research Units (Project Units)
Students of IT44 are required to complete 48cp of advanced research/project units in the form of a 48cp Dissertation or two 24cp Projects.

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT44&courseID=15214. CRICOS No.00213J
Master of Information Technology (Advanced) (Information Management)

**Domestic Entry requirements**

**Entry requirements**

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience).

Industry certification alone is not sufficient evidence.

**International Entry requirements**

**Entry requirements**

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience).

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**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.5</td>
</tr>
</tbody>
</table>

**Overview**

The Information Management major provides you with the skill and knowledge to find employment in the information and knowledge management industry. You will gain awareness of the activities in which information management professionals are engaged, in various organisational contexts. You will have the opportunity through electives to tailor your learning to specific contexts such as health services, educational settings, creative industries and information technology.

You will develop skill and knowledge in information management including the alignment of enterprise information and business planning, enterprise information policy, evaluation of information resources and systems, and the design, delivery and evaluation of information services to meet client or organisational needs.

**Why study this Major?**

Information is now viewed as one of the most significant assets in an organisation. The ability to obtain and manage information on an ongoing basis is an important component of competitive success. Internal and external information resources are used constantly in any organisation. Information managers help organisations to more effectively interact with and utilise information for business development and success. Information managers require the knowledge and expertise to design, plan, develop, manage and evaluate information services to meet the information needs of their organisation.

**Career Progression**

Careers include information broker, information manager, knowledge manager, database manager, webmaster, information architect, information coordinator, policy officer, research analyst, information services manager, document manager, metadata analyst, community information officer or learning resources officer.

**Course completion rules**

Students should meet the following requirements before they are able to complete the Masters Advanced program:

- Students are required to complete 192 credit points of units.
- Students are required to complete the specified core unit.
Master of Information Technology (Advanced) (Information Management)

- Students seeking a single area of specialisation must complete the specific unit requirements for a major.
- Students not seeking a single area of specialisation may graduate with no major.
- Students must complete 48 credit points of project or advanced research units.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information
For further information about this course, please contact:

Professor Helen Partridge
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure
Course completion rules
Before they are able to complete the Masters Advanced program:
- Students are required to complete 192 credit points of units.
- Students are required to complete the specified core unit.
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Sample Structure
Seminesters
- All of the following units:
- Elective Units
- Advanced Research Units (Project Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INN500</td>
<td>PRINCE2 (R) Project Management</td>
</tr>
<tr>
<td>INN330</td>
<td>Information Management</td>
</tr>
<tr>
<td>INN331</td>
<td>Management Issues for Information Professionals</td>
</tr>
<tr>
<td>INN332</td>
<td>Information Retrieval</td>
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<tr>
<td>INN530</td>
<td>Online Information Services</td>
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<tr>
<td>INN533</td>
<td>Information Organisation</td>
</tr>
<tr>
<td>INN540</td>
<td>User Experience</td>
</tr>
<tr>
<td>INN690</td>
<td>Minor Project 1</td>
</tr>
</tbody>
</table>

Elective Units
Select any four Postgraduate Units.

Advanced Research Units (Project Units)
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Domestic Entry requirements

Entry requirements
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OR
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OR
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Minimum english requirements

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</thead>
<tbody>
<tr>
<td></td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Overview

The Library and Information Studies major provides graduates with the skills to find employment in the library and information industry. You will acquire the knowledge and expertise required to design, plan, develop, manage and evaluate library and information services to meet the information needs of clients.

This major is offered in a flexible delivery mode, allowing students to complete their studies either face-to-face or online.

Why study this Major?

Libraries play a vital role in our information society. They help to connect people with the ever changing world of information. Librarians help individuals to more effectively interact with, and use, information in all aspects of their lives. Librarians require the knowledge and expertise to design, plan, develop, manage and evaluate library and information services to meet the information needs of their clients and assist them to become information literate. This course provides the core skills and knowledge required by the successful librarian in today’s information-rich and technology-driven age.

Professional Recognition

Graduates from the specialisation will be eligible for associate membership of the Australian Library and Information Association (ALIA).

Career Progression

Careers include librarian, information broker, information manager, knowledge manager, database manager, webmaster, information architect, information coordinator, policy officer, research analyst, corporate librarian, information services manager, document manager, web librarian, metadata analyst, specialist liaison librarian, community information officer, cataloguer, digital library coordinator, systems librarian, law librarian, learning resources officer or library media specialist.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters Advanced program:

• Students are required to complete 192 credit points of units.
• Students are required to complete the
specified core unit.

- Students seeking a single area of specialisation must complete the specific unit requirements for a major.
- Students not seeking a single area of specialisation may graduate with no major.
- Students must complete 48 credit points of project or advanced research units.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

**Early exit options**

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

**Further Information**

For further information about this course, please contact:

Ross Hayward or Helen Partridge
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

**Domestic Course structure**

**Course completion rules**

Before they are able to complete the Masters Advanced program:

- Students are required to complete 192 credit points of units.
- Students are required to complete the specified core unit.
- Students seeking a single area of specialisation must complete the specific unit requirements for a major.
- Students not seeking a single area of specialisation may graduate with no major.
- Students must complete 48 credit points of project or advanced research units.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INN690</td>
<td>Minor Project 1</td>
</tr>
</tbody>
</table>

**Select all of the following units:**

- INN330 Information Management
- INN331 Management Issues for Information Professionals
- INN332 Information Retrieval
- INN333 Information Programs
- INN530 Online Information Services
- INN531 Collections Management
- INN532 Information Literacy Education
- INN533 Information Organisation
- INN634 Professional Practice

**Elective Units**

Select any two Postgraduate Units.

**Advanced Research Units (Project units)**

Students of IT44 are required to complete 48cp of advanced research/project units in the form of a 48cp Dissertation or two 24cp Projects.

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT44&courseID=15216. CRICOS No.00213J
Domestic Entry requirements

Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International Entry requirements

Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Minimum english requirements

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
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<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
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</tbody>
</table>

Overview

The Network Management major provides the practical skills and the theory to make you a more effective network manager. It offers in-depth study of emerging network management issues such as security, network monitoring and high availability design.

You will gain up-to-date technical skills for the administration and management of computer networks using an environment that is currently used in industry as well as the theory and practical aspects of network administration and management. Network Management graduates are required to plan either new networks or the upgrading of existing networks. You will be exposed to methodologies and procedures that are useful in addressing the issues involved in network planning and management. Ensuring that the network is secure is a theme that is maintained throughout the course.

Why study this Major?

Computer networks are essential for the running of today’s organisations. Employees spend an ever increasing amount of time remote from their individual workspace. This has led to organisations seeking to deploy appropriate networks that allow real-time access to the corporate network anywhere around the world. The scope of the field of data communications and networks is constantly changing. Voice and data networking technologies are converging to provide more advanced systems with additional functionality and efficiencies. To ensure the effective and efficient operation of computer networks, they need to be designed, deployed and administered by competent technical people, which is why the Faculty has a dedicated major in this field.

Career Progression

Careers include business analyst, systems analyst, systems manager, data communications specialist, network administrator, network manager or Internet professional.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters Advanced program:

- Students are required to complete 192 credit points of units.
Master of Information Technology (Advanced) (Network Management)

- Students are required to complete the specified core unit.
- Students seeking a single area of specialisation must complete the specific unit requirements for a major.
- Students not seeking a single area of specialisation may graduate with no major.
- Students must complete 48 credit points of project or advanced research units.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
<th>Core</th>
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<td>INN350 Internet Protocols and Services</td>
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<td>INN351 Unix Network Administration</td>
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<td>INN352 Network Planning</td>
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<td>INN650 Advanced Network Management</td>
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<tr>
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<td></td>
<td>INN255 Security</td>
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<tr>
<td></td>
<td></td>
<td>INN353 Wireless and Mobile Networks</td>
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<tr>
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<td>INN355 Cryptology and Protocols</td>
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<td>INN550 Computer Forensics</td>
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<td>INN600 Advanced Readings 1</td>
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<td></td>
<td>INN601 Advanced Readings 2</td>
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<td>INN602 Advanced Readings 3</td>
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<td>INN605 Advanced Research 1</td>
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<td></td>
<td>INN606 Advanced Research 2</td>
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<td>INN607 Advanced Research 3</td>
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<td>INN651 Security Technologies</td>
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<td>INN652 Advanced Cryptology</td>
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<td>INN700 Introduction To Research</td>
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<td>INN701 Advanced Research Topics</td>
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<td></td>
<td>INS450 CCNA 1 and 2 Network Fundamentals and Routing</td>
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<td>INS451 CCNA 3 and 4 Lan Switching</td>
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<td>INS452 CCNP Route</td>
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<td>INS454 CCNP Switch</td>
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<tr>
<td></td>
<td></td>
<td>INS456 CISCO Security</td>
<td></td>
</tr>
</tbody>
</table>

Further Information
For further information about this course, please contact:
Dr Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure
Course completion rules
Before they are able to complete the Masters Advanced program:
- Students are required to complete 192 credit points of units.
- Students are required to complete the specified core unit.
- Students seeking a single area of specialisation must complete the specific unit requirements for a major.
- Students not seeking a single area of specialisation may graduate with no major.
- Students must complete 48 credit points of project or advanced research units.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

International Course structure
Course completion rules
Before they are able to complete the Masters Advanced program:
- Students are required to complete 192 credit points of units.
- Students are required to complete the specified core unit.
- Students seeking a single area of specialisation must complete the specific unit requirements for a major.
- Students not seeking a single area of specialisation may graduate with no major.
- Students must complete 48 credit points of project or advanced research units.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.
Master of Information Technology (Advanced) (Security)

Domestic Entry requirements

Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
  OR
- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International Entry requirements

Entry requirements
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
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International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Minimum english requirements

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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<th>reading</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Overview

This course offers advanced studies in information security, both in the business and technical sense. You are introduced to a range of information security issues and its broad context; the people, processes and technologies involved with interacting in this new online era. You will explore these topics through participation in the form of projects (research related and industry related) and practice in the community (small groups focusing on particular advanced topics). You will be exposed to the research and industry best-practice environment within QUT’s Information Security Institute (ISI) through collaboration with its staff and students. Students will graduate with an understanding and appreciation of what it means to be a security professional in contemporary global environments.

Why study this Major?

IT systems are increasingly used to store, process and exchange information ranging from e-commerce applications to critical infrastructure such as utilities, financial institutions, transport and telecommunications networks. Security breaches are routinely reported in the mainstream media, making security assurance no longer a choice but a requirement. Associated with this increased awareness and organisational compliance requirement is a growth in demand for IT personnel with management expertise and technical skills in information security.

Career Progression

Careers include information security specialist, information consultant, information assurance professional, information manager and progression to research career in information security.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters Advanced program:

- Students are required to complete 192 credit points of units.
- Students are required to complete the specified core unit.
- Students seeking a single area of specialisation must complete the specific unit requirements for a major.
- Students not seeking a single area of specialisation may graduate with no major.
Master of Information Technology (Advanced) (Security)

- Students must complete 48 credit points of project or advanced research units.
- Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Sample Structure

Seminesters

- Core
- All of the following units:
- Elective Units
- Advanced Research Units (Project Units)

Further Information
For further information about this course, please contact:
Dr Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure

Course completion rules

Before they are able to complete the Masters Advanced program:
- Students are required to complete 192 credit points of units.
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International Course structure

Course completion rules

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- Students not seeking a single area of specialisation may graduate with no major.
- Students must complete 48 credit points of project or advanced research units.

Elective Units

Select any four Postgraduate Units.

Advanced Research Units (Project Units)

Students of IT44 are required to complete 48cp of advanced research/project units in the form of a 48cp Dissertation or two 24cp Projects.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INN500</td>
<td>PRINCE2 (R) Project Management</td>
</tr>
<tr>
<td>INN255</td>
<td>Security</td>
</tr>
<tr>
<td>INN651</td>
<td>Security Technologies</td>
</tr>
<tr>
<td>INN355</td>
<td>Cryptology and Protocols</td>
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<td>INN550</td>
<td>Computer Forensics</td>
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<tr>
<td>INN600</td>
<td>Advanced Readings 1</td>
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<tr>
<td>INN601</td>
<td>Advanced Readings 2</td>
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<tr>
<td>INN602</td>
<td>Advanced Readings 3</td>
</tr>
<tr>
<td>INN605</td>
<td>Advanced Research 1</td>
</tr>
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<td>INN606</td>
<td>Advanced Research 2</td>
</tr>
<tr>
<td>INN607</td>
<td>Advanced Research 3</td>
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<td>INN690</td>
<td>Minor Project 1</td>
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<tr>
<td>INN691</td>
<td>Minor Project 2</td>
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<td>Project</td>
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<td>Introduction To Research</td>
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<td>GSN440</td>
<td>Risk Management 1</td>
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<td>JSN106</td>
<td>Analytical Methods of Intelligence</td>
</tr>
<tr>
<td>MAN778</td>
<td>Applications of Discrete Mathematics</td>
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<tr>
<td>MGN423</td>
<td>Contemporary Strategic Analysis</td>
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<td>MGN433</td>
<td>Managing High-Performance Organisations</td>
</tr>
<tr>
<td>INN701</td>
<td>Advanced Research Topics</td>
</tr>
</tbody>
</table>
Master of Information Technology (Advanced) (Software Architecture)

Domestic Entry requirements

**Entry requirements**
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International Entry requirements

**Entry requirements**
To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor’s degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

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International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Minimum english requirements

Students must meet the English proficiency requirements.

| IELTS (International English Language Testing System) |  
|---|---|
| speaking | 6.0 |
| writing | 6.0 |
| reading | 6.0 |

Overview

This major will enhance your capabilities as a software developer. It will provide you with an understanding of the issues, structure and technologies used for developing software architectures. The course will provide you with the theoretical and practical skills needed to develop enterprise critical applications using state-of-the-art technologies. A comparative technology approach is taken, including an analysis of how software development technologies have evolved to date, in order to identify common themes and to better enable you to comprehend and critically evaluate future software technology offerings.

Why study this Major?

A software architect is responsible for the high-level design and structure of an IT system. The systems developed by a software architect form a key part of the critical infrastructure of an organisation and the architect must balance a wide range of issues such as response time, portability, scalability and availability when designing solutions for a client. Consequently the software architect needs a thorough understanding of advanced software development techniques and technologies and how to take advantage of modern development environments and languages.

Understanding how and why programming approaches enable greater efficiency and flexibility is essential for graduates working in the IT industry. There are a wide variety of technologies available for developing software applications and they are continuing to evolve at a rapid pace.

Career Progression

Careers include business analyst, electronic commerce developer, internet professional, multimedia designer, senior programmer, software engineer or systems programmer.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters Advanced program:

- Students are required to complete 192 credit points of units.
- Students are required to complete the specified core unit.
- Students seeking a single area of
specialisation must complete the specific unit requirements for a major.
• Students not seeking a single area of specialisation may graduate with no major.
• Students must complete 48 credit points of project or advanced research units.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Early exit options
Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information
For further information about this course, please contact:

Dr Ross Hayward
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure
Course completion rules
Before they are able to complete the Masters Advanced program:
• Students are required to complete 192 credit points of units.
• Students are required to complete the specified core unit.
• Students seeking a single area of specialisation must complete the specific unit requirements for a major.
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International Course structure
Course completion rules
Before they are able to complete the Masters Advanced program:
• Students are required to complete 192 credit points of units.
• Students are required to complete the specified core unit.
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• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Sample Structure

Semesters

- Core
- All of the following units:
- In addition, select 3 of the following units:
- Elective Units
- Advanced Research Units (Project Units)

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>INN500</td>
<td>PRINCE2 (R) Project Management</td>
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<td>All of the following units:</td>
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<td>INN371</td>
<td>Data Structures and Algorithms</td>
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<tr>
<td>INN372</td>
<td>Agile Software Development</td>
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<td>INN374</td>
<td>Enterprise Software Architecture</td>
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<td>INN570</td>
<td>Internationalisation of Software</td>
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<td>INN271</td>
<td>The Web</td>
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<td>INN313</td>
<td>Electronic Commerce Site Development</td>
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<td>INN365</td>
<td>Systems Programming</td>
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<td>INN370</td>
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<td>INN373</td>
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<td>Advanced Research Topics</td>
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<tr>
<td>INN700</td>
<td>Introduction To Research</td>
</tr>
</tbody>
</table>

Elective Units
Select any four Postgraduate Units.

Advanced Research Units (Project Units)

Students of IT44 are required to complete 48cp of advanced research/project units in the form of a 48cp Dissertation or two 24cp Projects.
Master of Information Technology (Non-IT Graduates)

Minimum English Requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

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</tr>
</tbody>
</table>

Course Update
Please note: From 2009, this course is discontinued. IT45 continuing students should contact the course coordinator, Ernest Foo for enrolment or progression advice via sef.enquiry@qut.edu.au or 3138 8822.

Unit Incompatibility/Translation Information
Details on the translation and incompatibility of old and new units is located here:
Postgraduate Translation Table
If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.
Master of Information Technology (Advanced)

**Handbook**

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
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<tbody>
<tr>
<td>QUT code</td>
<td>IT48</td>
</tr>
<tr>
<td>Duration (full-time)</td>
<td>2 years</td>
</tr>
<tr>
<td>Duration (part-time)</td>
<td>4 years</td>
</tr>
<tr>
<td>Campus</td>
<td>Gardens Point</td>
</tr>
<tr>
<td>Total credit points</td>
<td>192</td>
</tr>
<tr>
<td>Credit points full-time sem.</td>
<td>48</td>
</tr>
<tr>
<td>Credit points part-time sem.</td>
<td>24</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Dr Ernest Foo</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Science and Engineering Faculty 3138 8822 <a href="mailto:sef.enquiry@qut.edu.au">sef.enquiry@qut.edu.au</a></td>
</tr>
</tbody>
</table>

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>speaking</th>
<th>writing</th>
<th>reading</th>
<th>listening</th>
<th>overall</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Course Update**

Please note: From 2009, this course is discontinued. IT48 continuing students should contact the course coordinator, Ernest Foo for enrolment or progression advice via enquiry.scitech@qut.edu.au or 3138 2782.

**Unit**

**Incompatibility/Translation Information**

Details on the translation and incompatibility of old and new units is located here:  
Postgraduate Translation Table

If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code

**Further Information**

For further information about this course, please contact:

Ernest Foo  
Phone: +61 7 3138 8822  
Email: sef.enquiry@qut.edu.au

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=IT48&courseID=19181. CRICOS No.00213J
Domestic Entry requirements

Entry Requirements
A bachelor degree with a grade point average of at least 4.5 (on a 7-point scale) AND demonstrated competence in the basic skills and concepts of personal or office computer usage.

International Entry requirements

Entry Requirements
A bachelor degree with a grade point average of at least 4.5 (on a 7-point scale) AND demonstrated competence in the basic skills and concepts of personal or office computer usage.

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

<table>
<thead>
<tr>
<th>Test</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Course Overview

The Master of Business Process Management will provide graduates with the skills and knowledge to create and align information systems to effectively support business and enable business strategy.

The program examines business-IT alignment issues through appropriate theory and skill development, and provides career enhancement opportunities into senior management and governance roles.

Students may undertake study in the areas of corporate systems and business process management, IT professional services (including project management and IT consulting), enterprise architecture and systems, and information and knowledge management within business processes.

Course Structure
Students may be eligible to receive a Graduate Certificate in Business Process Management after completing 48 credit points (4 units) consisting of the four specified units.

Students may also be eligible to receive a Graduate Certificate in Corporate Systems Management after completing 48 credit points (4 units) consisting of the four specified units.

Further Information
For further information about this course, please contact:

Dr Wasana Bandara
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

Domestic Course structure

Course Structure
Students may be eligible to receive a Graduate Certificate in Business Process Management after completing 48 credit points (4 units) consisting of the four specified units.

Students may also be eligible to receive a Graduate Certificate in Corporate Systems Management after completing 48 credit points (4 units) consisting of the four specified units.

International Course structure

Course Structure
Students may be eligible to receive a Graduate Certificate in Business Process Management after completing 48 credit points (4 units) consisting of the four specified units.

Students may also be eligible to receive a Graduate Certificate in Corporate Systems Management after completing 48 credit points (4 units) consisting of the four specified units.

Sample Structure

Semesters

- IT graduates Gateway Units 4 only
- Non-IT graduates Basic Units 4 only
- Block B Core Units 4 Minimum
- Block C Elective Units 24cp
## Master of Business Process Management

**Minimum**
- Grad Cert Business Process Management IT61 exit point only
- Grad Cert Corporate Systems Management IT62 exit point only

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT0700</td>
<td>Introduction To Research</td>
</tr>
<tr>
<td>INN311</td>
<td>Enterprise Systems</td>
</tr>
<tr>
<td>INN340</td>
<td>Database Design</td>
</tr>
<tr>
<td>INN312</td>
<td>Enterprise Systems Applications</td>
</tr>
<tr>
<td>INN221</td>
<td>Technology Management</td>
</tr>
<tr>
<td>INN322</td>
<td>Information Systems Consulting</td>
</tr>
<tr>
<td>INN330</td>
<td>Information Management</td>
</tr>
<tr>
<td>INN500</td>
<td>PRINCE2 (R) Project Management</td>
</tr>
</tbody>
</table>

**Grad Cert Corporate Systems Management IT62 exit point only**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INN331</td>
<td>Management Issues for Information Professionals</td>
</tr>
<tr>
<td>INN690</td>
<td>Minor Project 1</td>
</tr>
</tbody>
</table>

Students must choose 2 of the following units:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INN120</td>
<td>Corporate Systems</td>
</tr>
<tr>
<td>INN101</td>
<td>Impact of IT</td>
</tr>
<tr>
<td>INN122</td>
<td>Organisational Databases</td>
</tr>
<tr>
<td>INN500</td>
<td>PRINCE2 (R) Project Management</td>
</tr>
<tr>
<td>INN124</td>
<td>Information Systems Development</td>
</tr>
<tr>
<td>INN220</td>
<td>Business Analysis</td>
</tr>
<tr>
<td>INN221</td>
<td>Technology Management</td>
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</table>

**Block B Core Units 4 Minimum**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>INN323</td>
<td>Business Process Automation</td>
</tr>
<tr>
<td>INN610</td>
<td>Case Studies in Business Process Management</td>
</tr>
<tr>
<td>INN331</td>
<td>Management Issues for Information Professionals</td>
</tr>
<tr>
<td>INN321</td>
<td>Business Process Improvement</td>
</tr>
<tr>
<td>INN320</td>
<td>Business Process Modelling</td>
</tr>
<tr>
<td>INN690</td>
<td>Minor Project 1</td>
</tr>
<tr>
<td>INN324</td>
<td>Business Process Analytics</td>
</tr>
<tr>
<td>INN326</td>
<td>Advanced Process Modelling</td>
</tr>
<tr>
<td>INN327</td>
<td>Business Process Management</td>
</tr>
</tbody>
</table>

**Block C Elective Units 24cp Minimum**

- 12 cp FIT industry or research project
- 24 cp FIT industry or research project
- 48 cp FIT industry or research project
- 12 cp QUT post-graduate elective units

**Grad Cert Business Process Management IT61 exit point only**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INN311</td>
<td>Enterprise Systems</td>
</tr>
<tr>
<td>INN610</td>
<td>Case Studies in Business Process Management</td>
</tr>
<tr>
<td>INN321</td>
<td>Business Process Improvement</td>
</tr>
<tr>
<td>INN320</td>
<td>Business Process Modelling</td>
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</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=IT53&courseID=15230. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=IT53&courseID=15230. CRICOS No.00213J)
**Master of Information Management (refer to IT43)**

**Handbook**

<table>
<thead>
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<th>Year</th>
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<td>Duration (part-time)</td>
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<tr>
<td>Campus</td>
<td>Gardens Point</td>
</tr>
<tr>
<td>Domestic fee (indicative)</td>
<td>2012: $9400 per Semester</td>
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<tr>
<td>International fee (indicative)</td>
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<tr>
<td>Total credit points</td>
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<tr>
<td>Course Coordinator</td>
<td>Dr Helen Partridge</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Science and Engineering Faculty 3138 8822 <a href="mailto:sef.enquiry@qut.edu.au">sef.enquiry@qut.edu.au</a></td>
</tr>
</tbody>
</table>

**Minimum English Requirements**

Students must meet the English proficiency requirements.

**IELTS (International English Language Testing System)**

- speaking: 6.0
- writing: 6.0
- reading: 6.0
- listening: 6.0
- overall: 6.5

**Note:**

From semester one, 2009 this course will not be available for commencing students. IT70 will only be available for continuing students. New students - please refer to IT43. Please contact sef.enquiry@qut.edu.au for any enquiries.

**Course Structure**

With the availability of a nested graduate diploma, students in the Master of Information Management may be eligible to receive a Graduate Diploma in Information Management (IT72), after completing 96 credit points (8 units), consisting of eight specified units in a concentrated area of study.

**Professional Recognition**

The Master of Information Management is professionally recognised by the Australian Library and Information Association (ALIA).

**Unit Incompatibility/Translation Information**

Details on the translation and incompatibility of old and new units is located here: [Postgraduate Translation Table](#)

If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

**Further Information**

For further information about this course, please contact:

Dr Helen Partridge  
Phone: +61 7 3138 8822  
Email: sef.enquiry@qut.edu.au

**Sample Structure**

**Semesters**

- [Course Structure 2009](#)
# Graduate Certificate in Information Management (Information and Knowledge Management)

**Year:** 2012  
**QUT code:** IT74  
**Duration (part-time):** 2  
**Campus:** Gardens Point  
**Total credit points:** 48  
**Course Coordinator:** Associate Professor Helen Partridge  
**Discipline Coordinator:**  

## Minimum english requirements

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.5</td>
</tr>
</tbody>
</table>

## Course Update

From semester one, 2009 this course will not be available for commencing students. IT74 will only be available for continuing students. New students - please refer to IT43. IT74 continuing students should contact the course coordinator, Helen Partridge for enrolment or progression advice via enquiry.scitech@qut.edu.au or 3138 2782.

## Unit Incompatibility/Translation Information

Details on the translation and incompatibility of old and new units is located here: [Postgraduate Translation Table](#).

If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

## Further Information

For further information about this course, please contact:

Helen Partridge  
Phone: +61 7 3138 8822  
Email: sef.enquiry@qut.edu.au

## Sample Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INN330</td>
<td>Information Management</td>
</tr>
<tr>
<td>INN690</td>
<td>Minor Project 1</td>
</tr>
</tbody>
</table>

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This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=IT74&courseID=19190. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=IT74&courseID=19190. CRICOS No.00213J)
Graduate Certificate in Information Management (Records Management)

**Handbook**

<table>
<thead>
<tr>
<th>Year</th>
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<tbody>
<tr>
<td>QUT code</td>
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<tr>
<td>Duration (part-time)</td>
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<tr>
<td>Campus</td>
<td>Gardens Point</td>
</tr>
<tr>
<td>Total credit points</td>
<td>48</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Associate Professor Helen Partridge</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Helen Partridge</td>
</tr>
</tbody>
</table>

**Minimum english requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking 6.0</td>
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<tr>
<td>writing 6.0</td>
</tr>
<tr>
<td>reading 6.0</td>
</tr>
<tr>
<td>listening 6.0</td>
</tr>
<tr>
<td>overall 6.5</td>
</tr>
</tbody>
</table>

**Course Update**

From semester one, 2009 this course will not be available for commencing students. IT73 will only be available for continuing students. New students - please refer to IT43. IT73 continuing students should contact the course coordinator, Helen Partridge for enrolment or progression advice via enquiry.scitech@qut.edu.au or 3138 2782.

**Unit Incompatibility/Translation Information**

Details on the translation and incompatibility of old and new units is located here:

- Postgraduate Translation Table

If you have completed the unit(s) listed under the “Translation Unit Codes” column you are not permitted to enrol in the listed new code.

**Further Information**

For further information about this course, please contact:

Helen Partridge
Phone: +61 7 3138 8822
Email: sef.enquiry@qut.edu.au

**Sample Structure**

**Semesters**

- Course Structure 2009
- Core Units
- Choose one unit from the following

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
</table>
| Core Units
| Choose one unit from the following |
| INN122 | Organisational Databases    |
| INN530 | Online Information Services  |
International Course structure

The Master of Research Management and Commercialisation is particularly suited to current or aspiring research management leaders, administrators and active researchers in corporations, universities and the public sector. The Masters builds on the content of the Graduate Certificate and allows you to develop a deeper understanding of the context and strategic issues involved in research management and commercialisation. You can tailor the course to your needs by applying these ideas and concepts to issues of relevance to you and, where possible, undertaking assessment through workplace-based projects.

Students enrolled in the masters-level course can choose to exit with an award of Graduate Diploma in Research and Development Management following the completion of eight approved units.

Sample Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>IFP100</td>
<td>Knowledge Transfer and Research Commercialisation</td>
</tr>
<tr>
<td>IFP101</td>
<td>Leadership and Workplace Communication</td>
</tr>
<tr>
<td>IFP102</td>
<td>Project Management and Research</td>
</tr>
<tr>
<td>IFP104</td>
<td>Entrepreneurial Foundations</td>
</tr>
<tr>
<td>IFP105</td>
<td>Principles and Practice of Research Management</td>
</tr>
<tr>
<td>IFP106</td>
<td>Managing Research Careers</td>
</tr>
<tr>
<td>IFP107</td>
<td>Global Sustainability</td>
</tr>
<tr>
<td>IFP108</td>
<td>Strategic Issues in Research Management</td>
</tr>
<tr>
<td>IFP109</td>
<td>Contexts For Research &amp; Development Management</td>
</tr>
<tr>
<td>IFP110</td>
<td>R&amp;D Management Project 1</td>
</tr>
<tr>
<td>IFP111</td>
<td>R&amp;D Management Project 2</td>
</tr>
<tr>
<td>IFP113</td>
<td>Financial Decisions for Research Management</td>
</tr>
</tbody>
</table>
Domestic Entry requirements
To be eligible for admission an applicant:
A Bachelor degree in any discipline.

Students who do not have sufficient background in introductory calculus, linear algebra and statistics may be advised to enrol in the Graduate Certificate in Mathematical Science (MA65) as a pathway to Masters.

International Entry requirements
To be eligible for admission an applicant:
A Bachelor degree in any discipline.

Students who do not have sufficient background in introductory calculus, linear algebra and statistics may be advised to enrol in the Graduate Certificate in Mathematical Science (MA65) as a pathway to Masters.

Minimum english requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
- speaking: 6.0
- writing: 6.0
- reading: 6.0
- listening: 6.0
- overall: 6.5

Overview
This course enables graduates from any discipline to develop their knowledge and skills in one or more areas of the mathematical sciences. Strands available include mathematical modelling/applied mathematics, computational mathematics, statistics/statistical modelling, quantitative analysis/financial mathematics and operations research. This course recognises that students may not have studied mathematics for some time.

Course Design
The program of study for an individual student will be decided in consultation with the course coordinator and will take into account the student's background and area of interest within the mathematical sciences.

For the Masters program, at least 36 credit points must be taken from advanced postgraduate mathematics units. Up to 24 credit points can be taken from units other than mathematics units and there is a limit of 48 credit points from project units.

International Course structure
Course design
The program of study for an individual student will be decided in consultation with the course coordinator and will take into account the student's background and area of interest within the mathematical sciences.

For the Masters program, at least 36 credit points must be taken from advanced postgraduate mathematics units. Up to 24 credit points can be taken from units other than mathematics units and there is a limit of 48 credit points from project units.

Sample Structure
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Course Notes</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>- Total credit points: 144</td>
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<tr>
<td></td>
<td></td>
<td>- At least 36 credit points must be taken from advanced postgraduate mathematics units.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Up to 24 credit points can be taken from units other than mathematics units.</td>
</tr>
</tbody>
</table>
- The units recommended will depend upon your mathematics background from secondary school or tertiary studies, length of time since you have studied mathematics, and your areas of interest.

### Units available:

<table>
<thead>
<tr>
<th>Code</th>
<th>Unit Name</th>
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<tbody>
<tr>
<td>MAN101</td>
<td>Statistical Data Analysis 1</td>
</tr>
<tr>
<td>MAN121</td>
<td>Calculus and Differential Equations</td>
</tr>
<tr>
<td>MAN122</td>
<td>Algebra and Analytic Geometry</td>
</tr>
<tr>
<td>MAN200</td>
<td>Advanced Topics in Mathematical Sciences 1</td>
</tr>
<tr>
<td>MAN201</td>
<td>Advanced Topics in Mathematical Sciences 2</td>
</tr>
<tr>
<td>MAN210</td>
<td>Statistical Modelling 1</td>
</tr>
<tr>
<td>MAN220</td>
<td>Computational Mathematics 1</td>
</tr>
<tr>
<td>MAN281</td>
<td>Mathematics for Computer Graphics</td>
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<tr>
<td>MAN311</td>
<td>Advanced Calculus</td>
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<tr>
<td>MAN312</td>
<td>Linear Algebra</td>
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<tr>
<td>MAN313</td>
<td>Mathematics of Finance</td>
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<tr>
<td>MAN314</td>
<td>Statistical Modelling 2</td>
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<tr>
<td>MAN315</td>
<td>Operations Research 2</td>
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<tr>
<td>MAN413</td>
<td>Differential Equations</td>
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<tr>
<td>MAN414</td>
<td>Applied Statistics 2</td>
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<tr>
<td>MAN420</td>
<td>Computational Mathematics 2</td>
</tr>
<tr>
<td>MAN422</td>
<td>Mathematical Modelling</td>
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<tr>
<td>MAN461</td>
<td>Discrete Mathematics</td>
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<td>MAN521</td>
<td>Applied Mathematics 3</td>
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<td>MAN522</td>
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<td>MAN524</td>
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<td>MAN536</td>
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<td>MAN613</td>
<td>Partial Differential Equations</td>
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<td>MAN623</td>
<td>Financial Mathematics</td>
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<td>MAN700</td>
<td>Project</td>
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<td>MAN717</td>
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### ADVANCED POSTGRADUATE MATHEMATICS UNITS:

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<tbody>
<tr>
<td>MAN74</td>
<td>Perturbation Methods</td>
</tr>
<tr>
<td>MAN75</td>
<td>Statistical Modelling of Financial Processes</td>
</tr>
<tr>
<td>MAN778</td>
<td>Applications of Discrete Mathematics</td>
</tr>
<tr>
<td>MAN787</td>
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</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=MA85&courseID=15251. CRICOS No. 00213J
Master of Lighting

Handbook

Year: 2012
QUT code: PH82
CRICOS: 058287A
Duration (full-time): 1.5 years
Duration (part-time domestic): 3 years
Campus: Gardens Point
Domestic fee (indicative): 2012: $7600 per Semester
International fee (indicative): 2012: $11800 per Semester
Total credit points: 144
Credit points part-time sem.: 24
Start months: February
Int. Start Months: February
Course Coordinator: Associate Professor Ian Cowling
Discipline Coordinator: Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Entry Requirements

Domestic Entry requirements
- Bachelor-level degree in an appropriate field, or
- successful completion of the Graduate Certificate or Graduate Diploma in Lighting or equivalent.

International Entry requirements
- Bachelor-level degree in an appropriate field, or
- successful completion of the Graduate Certificate or Graduate Diploma in Lighting or equivalent.

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)
- speaking: 6.0
- writing: 6.0
- reading: 6.0
- listening: 6.0
- overall: 6.5

Course Design
Masters students will undertake 24 credit point research project, which may be based within their place of employment and two units (24 credit points) of coursework which may be reading topics associated with their project or other electives taken from any relevant units within the University, on approval of the Course Coordinator.

Further Information
For further information about this course, please contact:

Ian Cowling
Phone: +61 7 3138 2592
Email: i.cowling@qut.edu.au

Domestic Course structure

Course design
Masters students will undertake a 24 credit point research project, which may be based within their place of employment and two units (24 credit points) of coursework which may be reading topics associated with their project or other electives taken from any relevant units within the University, on approval of the Course Coordinator.

Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
<th>Year 1, Semester 1</th>
<th>Year 1, Semester 2</th>
<th>Year 2, Semester 1</th>
<th>Year 2, Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>PCN121 Vision Colour and Photometry</td>
<td>PCN124 Lamps and Luminaires</td>
<td>PCN212 Lighting Design</td>
<td>PCN123 Sustainability and Human Factors</td>
</tr>
<tr>
<td>Title</td>
<td>Vision Colour and Photometry</td>
<td>Lamps and Luminaires</td>
<td>Lighting Design</td>
<td>Sustainability and Human Factors</td>
</tr>
<tr>
<td></td>
<td>PCN223 Lighting Applications</td>
<td>PCN222 Advanced Lighting Design</td>
<td>Lighting Applications</td>
<td>Advanced Lighting Design</td>
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<tr>
<td></td>
<td>PCN320 Lighting Project</td>
<td>PCN321 Reading Topic 1</td>
<td>PCN320 Lighting Project</td>
<td>Reading Topic 1</td>
</tr>
<tr>
<td></td>
<td>PCN322 Reading Topic 2</td>
<td>PCN321 Reading Topic 1</td>
<td>PCN320 Lighting Project</td>
<td>Reading Topic 2</td>
</tr>
</tbody>
</table>

Most units in the internal mode will be offered in block format on weekends and some weeknights.

International Course structure

Course design
Masters students will undertake a 24 credit point research project, which may be based within their place of employment and two units (24 credit points) of coursework which may be reading topics associated with their project or other electives taken from any relevant units within the University, on approval of the Course Coordinator.

Most units in the internal mode will be offered in block format on weekends and some weeknights.
Master of Cardiac Ultrasound

Domestic Entry requirements
To be eligible for admission, an applicant:

- will normally have a diploma level qualification with a minimum of 5 years clinical experience in cardiac ultrasound degree or a bachelor degree in a relevant science or allied health field
- must provide written proof of a minimum of three months full-time equivalent prior supervised, hands-on clinical experience in cardiac ultrasound
- must have access to suitable clinical experience for the duration of the course.

July entry into the Master of Cardiac Ultrasound is available only to students who have completed the Graduate Diploma in Cardiac Ultrasound or students with advanced standing.

Advanced standing is granted to students who hold the Diploma in Medical Ultrasonography (Cardiac) awarded by the Australasian Society for Ultrasound in Medicine. An appropriate program of coursework should be discussed with the course coordinator.

Minimum English requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>Speaking</th>
<th>Writing</th>
<th>Reading</th>
<th>Listening</th>
<th>Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Entry Requirements
To be eligible for admission, an applicant:

Sample Structure

Semesters

- **STAGE 1:** Students must complete the units listed below, totalling 96 credit points:
  - Year 1, Semester 1
  - Year 1, Semester 2
  - Year 2, Semester 1
  - Year 2, Semester 2
- **STAGE 2:** Students must complete the units listed below, totalling 48 credit points:
  - First Semester ** (Project Over Two Semesters)

Course Notes
Notes: A student may request an extension of time in which to submit the project report for assessment. A request for an extension of time up to a maximum of six months should be made in writing through the Head of School to the Dean. Any request for a further extension, or any request for an extension to a date later than six months after the original due date, should be made to the Academic Board. The Academic Board may grant the extension under such conditions as it may consider appropriate, or may award the student a "Fail" result in the project unit.

A student who has received a "Fail" result in the project unit may re-enrol in the unit only in exceptional circumstances and with the express permission of the Academic Board.
Master of Cardiac Ultrasound

* Masters project units are offered in both semesters.

** Second Semester enrolments for PH85 will only be accepted under the following circumstances:

1. Students who have successfully completed PH75 Graduate Diploma in Cardiac Ultrasound may enrol into the Masters project (PCN640-1) in second semester.

2. Students who have completed the Cardiac DMU and who are eligible to apply for advanced standing may enrol into PH85 in second semester.#

# Under university rules and regulations, these students are required to undertake 50% of the coursework for PH85. Therefore, in addition to the Masters project, students will be required to complete two other units (PCN218 Research Methodology and Professional Studies and PCN459 Advanced Cardiac Ultrasound).

Students in the Master of Cardiac Ultrasound (PH85) wishing to exit with the Graduate Diploma in Cardiac Ultrasound (PH75) are required to submit an Application to Graduate Early with an Approved Exit Course (SRX) Form in their final semester of study.
Master of Urban Development (Urban and Regional Planning)

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
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</thead>
<tbody>
<tr>
<td>QUT code</td>
<td>UD50</td>
</tr>
<tr>
<td>CRICOS</td>
<td>060809F</td>
</tr>
<tr>
<td>Duration (full-time)</td>
<td>1 year</td>
</tr>
<tr>
<td>Duration (part-time)</td>
<td>2 years</td>
</tr>
<tr>
<td>Campus</td>
<td>Gardens Point</td>
</tr>
<tr>
<td>Domestic fee (indicative)</td>
<td>2012: $8,800 per Semester</td>
</tr>
<tr>
<td>International fee (indicative)</td>
<td>2012: $12,000 per Semester</td>
</tr>
<tr>
<td>Total credit points</td>
<td>96</td>
</tr>
<tr>
<td>Credit points full-time sem.</td>
<td>48</td>
</tr>
<tr>
<td>Start months</td>
<td>February, July</td>
</tr>
<tr>
<td>Int. Start Months</td>
<td>February, July</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>ASPRO Tan Yigitcanlar</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Science and Engineering Faculty 3138 8822 <a href="mailto:sef.enquiry@qut.edu.au">sef.enquiry@qut.edu.au</a></td>
</tr>
</tbody>
</table>

Domestic Entry requirements
A four-year full-time bachelor degree in a relevant urban development discipline area and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

International Entry requirements
A four-year full-time bachelor degree in a relevant urban development discipline area and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
<tr>
<td>overall</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Professional Recognition
Students completing the Graduate Certificate in Built Environment and Engineering, with appropriate unit selection, and the Master of Urban Development (Urban and Regional Planning), will be eligible for graduate membership of the Planning Institute of Australia.

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Advanced Standing
Students completing two Masters courses in the following Master Courses - BN87, BN88, BN89, EN50(Systems), UD50 - will be eligible to apply for a maximum of 24 credit points advanced standing in the second course on the basis of common units already completed. Such students will be required to complete a minimum of 72cp to be determined in consultation with the nominated Course Leader, to achieve the second Masters.

Further Information
Science and Engineering Faculty - Phone +61 7 3138 8822, Email: sef.enquiry@qut.edu.au

Sample Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEN610</td>
<td>Project Management Principles</td>
</tr>
<tr>
<td>UDN510</td>
<td>Urban Planning Practice</td>
</tr>
<tr>
<td>UDN516</td>
<td>Master Concepts and Ethics Seminar</td>
</tr>
<tr>
<td>AMN435</td>
<td>Communication, Negotiation and Leadership</td>
</tr>
<tr>
<td>BEN710</td>
<td>Sustainable Practice in Built Environment and Engineering</td>
</tr>
<tr>
<td>BEN910</td>
<td>Integrated Project</td>
</tr>
<tr>
<td>UDN512</td>
<td>Community Planning</td>
</tr>
<tr>
<td>UDN514</td>
<td>Regional Planning Practice</td>
</tr>
</tbody>
</table>

This information is correct as at 16/12/2013. For the most up-to-date course information, visit http://www.student.qut.edu.au/studying/courses/course?courseCode=UD50&courseID=16210. CRICOS No.00213J
# Master of Applied Science (Research)

<table>
<thead>
<tr>
<th>Handbook</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year</strong></td>
</tr>
<tr>
<td><strong>QUT code</strong></td>
</tr>
<tr>
<td><strong>CRICOS</strong></td>
</tr>
<tr>
<td><strong>Duration (full-time)</strong></td>
</tr>
<tr>
<td><strong>Duration (part-time)</strong></td>
</tr>
<tr>
<td><strong>Campus</strong></td>
</tr>
<tr>
<td><strong>Domestic fee (indicative)</strong></td>
</tr>
<tr>
<td><strong>International fee (indicative)</strong></td>
</tr>
<tr>
<td><strong>Total credit points</strong></td>
</tr>
<tr>
<td><strong>Course Coordinator</strong></td>
</tr>
<tr>
<td><strong>Discipline Coordinator</strong></td>
</tr>
</tbody>
</table>

## Domestic Entry requirements
A four-year degree in an appropriate discipline with Honours or equivalent qualification or a graduate diploma or masters degree in an appropriate discipline with a minimum grade point average of 5 with relevant experience or professional experience and/or other qualifications.

## International Entry requirements
A four-year degree in an appropriate discipline with Honours or equivalent qualification or a graduate diploma or masters degree in an appropriate discipline with a minimum grade point average of 5 with relevant experience or professional experience and/or other qualifications.

## Minimum english requirements
Students must meet the English proficiency requirements.

### IELTS (International English Language Testing System)

<table>
<thead>
<tr>
<th>Speaking</th>
<th>Writing</th>
<th>Reading</th>
<th>Listening</th>
<th>Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.5</td>
</tr>
</tbody>
</table>

## Further Information
Science and Engineering Research, Phone: +61 7 3138 2595, Email: sef.research@qut.edu.au
# Master of Engineering (Research)

This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=BN72&courseID=16570. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=BN72&courseID=16570. CRICOS No.00213J)

## Handbook

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUT code</td>
<td>BN72</td>
</tr>
<tr>
<td>CRICOS</td>
<td>003465J</td>
</tr>
<tr>
<td>Duration (full-time)</td>
<td>1 year</td>
</tr>
<tr>
<td>Duration (part-time)</td>
<td>2 years</td>
</tr>
<tr>
<td>Campus</td>
<td>Gardens Point</td>
</tr>
<tr>
<td>Domestic fee (indicative)</td>
<td>Aust citizens or PRs will be awarded an RTS/RTA place or a QUT sponsorship for tuition fees. If you exceed the max time, you will be charged - 2012: $12300 per Semester</td>
</tr>
<tr>
<td>International fee (indicative)</td>
<td>2012: $13700 per Semester</td>
</tr>
<tr>
<td>Total credit points</td>
<td></td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Enquiries to <a href="mailto:sef.research@qut.edu.au">sef.research@qut.edu.au</a> or 07 3138 2595.</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Science and Engineering Faculty 3138 2595 <a href="mailto:sef.research@qut.edu.au">sef.research@qut.edu.au</a></td>
</tr>
</tbody>
</table>

## Domestic Entry requirements

A four-year degree in an appropriate discipline with Honours or equivalent qualification or a graduate diploma or masters degree in an appropriate discipline with a minimum grade point average of 5 with relevant experience or professional experience and/or other qualifications.

## International Entry requirements

A four-year degree in an appropriate discipline with Honours or equivalent qualification or a graduate diploma or masters degree in an appropriate discipline with a minimum grade point average of 5 with relevant experience or professional experience and/or other qualifications.

## Minimum english requirements

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
</tr>
<tr>
<td>writing</td>
</tr>
<tr>
<td>reading</td>
</tr>
<tr>
<td>listening</td>
</tr>
<tr>
<td>overall</td>
</tr>
</tbody>
</table>

## Course Information and Notes

Please consult notes for BN71 Master of Applied Science for course information and requirements.

## Further Information

Science and Engineering Research, Phone: +61 7 3138 2595, Email: sef.research@qut.edu.au
Master of Information Technology (Research)

**Domestic Entry requirements**
To be eligible for this course, applicants must have:

- an approved degree in information technology from a recognised tertiary institution or an equivalent qualification, with a grade point average of 5 (on a 7-point scale), or

- an approved degree from a recognised tertiary institution plus evidence of professional experience and skills to satisfy the Academic Board that the applicant possesses the capacity to pursue the course of study. The evidence should include details of any project or research activities undertaken.

In addition to assessing qualifications, the Faculty must also be satisfied that adequate supervision and resources are available to support the applicant's proposed research.

**International Entry requirements**
To be eligible for this course, applicants must have:

- an approved degree in information technology from a recognised tertiary institution or an equivalent qualification, with a grade point average of 5 (on a 7-point scale), or

- an approved degree from a recognised tertiary institution plus evidence of professional experience and skills to satisfy the Academic Board that the applicant possesses the capacity to pursue the course of study. The evidence should include details of any project or research activities undertaken.

In addition to assessing qualifications, the Faculty must also be satisfied that adequate supervision and resources are available to support the applicant's proposed research.

**Minimum english requirements**
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>speaking</td>
<td>6.0</td>
</tr>
<tr>
<td>writing</td>
<td>6.0</td>
</tr>
<tr>
<td>reading</td>
<td>6.0</td>
</tr>
<tr>
<td>listening</td>
<td>6.0</td>
</tr>
</tbody>
</table>

**Research Areas**
Areas of research interest and contact details can be obtained from the Faculty website

**Course Structure**
Students entering the degree with second-class honours division A (or better) in an IT-related course will often complete the degree in one year full-time. The length of the program is generally expected to be 18 months full-time (including six months of provisional registration) or three years part-time (including one year of provisional registration).

Assessment for this research masters is based on a program of supervised research and investigation, culminating in a thesis.

Programs may include some coursework in support of the conduct of research and preparation of a thesis. Candidates are required to have regular, face-to-face interaction with supervisors and to participate in University scholarly activities such as research seminars, teaching and publication.

**Further Information**
Science and Engineering Research,
Phone: +61 7 3138 2595, Email: sef.research@qut.edu.au

**Domestic Course structure**
Students entering the degree with second-class honours division A (or better) in an IT-related course will often complete the degree in one year full-time. The length of the program is generally expected to be 18 months full-time (including six months of provisional registration) or three years part-time (including one year of provisional registration).

Assessment for this research masters is based on a program of supervised research and investigation, culminating in a thesis.

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Master of Information Technology (Research)

International Course structure
Students entering the degree with second-class honours division A (or better) in an IT-related course will often complete the degree in one year full-time. The length of the program is generally expected to be 18 months full-time (including six months of provisional registration) or three years part-time (including one year of provisional registration).

Assessment for this research masters is based on a program of supervised research and investigation, culminating in a thesis.

Programs may include some coursework in support of the conduct of research and preparation of a thesis. Candidates are required to have regular, face-to-face interaction with supervisors and to participate in University scholarly activities such as research seminars, teaching and publication.

Sample Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Full-time Course Structure</strong></td>
<td></td>
</tr>
<tr>
<td>A program of research and investigation developed in conjunction with the Principal</td>
<td></td>
</tr>
<tr>
<td>Supervisor and approved by the Faculty Research Committee (Workload equivalent to 48 credit points per semester)</td>
<td></td>
</tr>
<tr>
<td><strong>Part-time Course Structure</strong></td>
<td></td>
</tr>
<tr>
<td>A program of research and investigation developed in conjunction with the Principal</td>
<td></td>
</tr>
<tr>
<td>Supervisor and approved by the Faculty Research Committee (Workload equivalent to 24 credit points per semester)</td>
<td></td>
</tr>
</tbody>
</table>
## Domestic Entry requirements
A Bachelor of Applied Science, equivalent qualification or other evidence of qualifications that demonstrate that the applicant possesses the capacity to pursue the course of study.

In addition to assessing qualifications, the Faculty must also be satisfied that adequate supervision and resources are available to support the applicant’s proposed research.

## International Entry requirements
A Bachelor of Applied Science, equivalent qualification or other evidence of qualifications that demonstrate that the applicant possesses the capacity to pursue the course of study.

In addition to assessing qualifications, the Faculty must also be satisfied that adequate supervision and resources are available to support the applicant’s proposed research.

## Minimum English requirements
Students must meet the English proficiency requirements.

### IELTS (International English Language Testing System)

<table>
<thead>
<tr>
<th>Speaking</th>
<th>Writing</th>
<th>Reading</th>
<th>Listening</th>
<th>Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.0</td>
<td>6.5</td>
</tr>
</tbody>
</table>

## Course Design
This degree consists of coursework that can comprise up to one-third of the course and research, which must be at least two-thirds of the course. The assessed coursework may be in the form of advanced lectures, seminars, reading courses or independent study designed to focus on information retrieval skills. The research component is a program of supervised research and investigation at a level of scientific competence significantly higher than that expected from an undergraduate degree and, typically, a masters thesis does not need to be as substantial as a Doctor of Philosophy thesis.

Students undertake a program of research and investigation on a topic approved by the Academic Board. All projects should be sponsored either by outside agencies such as industry, government authorities, or professional organisations, or by the University itself.

Students entering the course with an honours degree or equivalent substantial relevant work experience normally gain exemptions to a maximum of 96 credit points at the discretion of the Academic Board on the recommendation of the Head of School.

Students entering the course with a graduate diploma may gain exemption to a maximum of 96 credit points at the discretion of the Academic Board on the recommendation of the Head of School.

A full-time candidate who does not hold an honours degree appropriate to the course of study will normally be required to complete both course and research work, including submission of the thesis for examination during a period of registration of 24 months. The corresponding period in the case of a part-time candidate shall be 48 months. In special cases the Academic Board may approve a shorter period.

A holder of an honours degree or its equivalent appropriate to the course of study may submit the thesis for examination after not less than 12 months of registration if a full-time student, or 24 months if a part-time student. In special cases the Academic Board may approve a shorter period.

## Overview
The objectives of this course are to:

## Sample Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
</table>

### Course Notes

The Research Work component of the degree must constitute at least 96 credit points. The units below have been devised to represent the EFTSU (Effective Full-time Student Unit) and attendance type of graduate research students.

At the end of each semester a grade of T - Assessment Continues will be awarded in any IFNX00 units provided satisfactory progress is being maintained. A final grade (S - Satisfactory or U - Unsatisfactory) will be awarded once the thesis has been examined according to the degree rules.

### Disciplines

Mathematical Sciences
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
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<td>IFT612</td>
<td>Thesis</td>
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<tr>
<td>IFT613</td>
<td>Thesis</td>
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<td>IFT614</td>
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<td>IFT615</td>
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<tr>
<td>IFT621</td>
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<tr>
<td>IFT622</td>
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<tr>
<td>IFT635</td>
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<td>IFT637</td>
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<td>IFT661</td>
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<tr>
<td>IFT696</td>
<td>Thesis</td>
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</table>

Chemical Sciences
Earth Sciences
Thesis

Biological Sciences, Agriculture, Horticulture & Viticulture, Forestry Studies, Fisheries Studies, Environmental Studies, Other Agriculture, Environmental & Related Studies

Physics & Astronomy, Other Natural & Physical Sciences

Computer Science

Information Systems & Other Information Technology

Electrical & Electronic Engineering

Environmental Engineering, Biomedical Engineering

Medical Studies, Pharmacy, Dentistry

Political Science & Policy Studies; Human Welfare Studies & Services; Behavioural Science; Librarianship, Information Management & Curatorial Studies; Language & Literature; Philosophy & Religious Studies; Sport & Recreation; Other Society & Culture
**Minimum English Requirements**

Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
<th>speaking</th>
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<th>writing</th>
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</thead>
<tbody>
<tr>
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</table>

**International Student Entry**

Admission to the Doctor of Philosophy depends on an applicant’s demonstrated research aptitude and the availability of supervision, infrastructure and resources needed for the proposed research project.

An applicant would normally hold:
- a relevant first or second class division A honours degree or equivalent, or
- an appropriate Masters degree or Professional Doctorate (by research or coursework)

Masters and Professional Doctorates degrees by coursework must contain a significant research component, normally no less than 25%.

Holders of Masters and Professional Doctoral by Coursework must:
- have a grade point average of at least 5.0 on a 7 point scale and
- present evidence of research experience and potential for approval

English language proficiency requirements International applicants to meet an IELTS overall bandscore of 6.5 with no sub-score below 6.0.

**FINANCIAL GUARANTEE**

Acceptable forms of evidence include:
- A letter from an approved employer confirming the continuation of your salary;
- A signed Scholarship Agreement between QUT and your sponsoring agency;
- An accepted letter of offer from QUT for a postgraduate research scholarship;
- An approved external scholarship.

**Course Structure**

QUT adopts a project management approach. PhD candidates work closely with their supervisory team to meet collegially reviewed milestones leading to timely submission of a thesis for examination. QUT is proud of its record of timely completions and low attrition rates realised by this approach.

During candidature the supervisor and other key stakeholders will provide advice and direction to the candidate to encourage their participation in university scholarly activities such as research seminars, teaching and publication. The length of the thesis varies according to the topic, but should normally be no longer than 100,000 words, excluding bibliography.
Doctor of Philosophy (Information Technology)

### Domestic Entry requirements
Applicants must have a relevant first- or second-class division A honours degree or equivalent from QUT or another recognised institution.

### International Entry requirements
Applicants must have a relevant first- or second-class division A honours degree or equivalent from QUT or another recognised institution.

### Minimum english requirements
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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</thead>
<tbody>
<tr>
<td>speaking</td>
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<tr>
<td>overall</td>
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</table>

### Entry Requirements
Applicants must have a relevant first- or second-class division A honours degree or equivalent from QUT or another recognised institution.

### Research Area
Areas of research interest and contact details can be obtained from the Faculty website.

### Course Structure
The length of the program is generally three years full-time or six years part-time.

Assessment for the doctoral award is based on a program of supervised research and preparation of the thesis. Candidates are required to have regular, face-to-face interaction with supervisors and to participate in University scholarly activities such as research seminars, teaching and publication.

### Further Information
For further information about this course, please contact:

Professor Chris Langton
Assistant Dean - Research

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This information is correct as at 16/12/2013. For the most up-to-date course information, visit [http://www.student.qut.edu.au/studying/courses/course?courseCode=IF49&courseID=15631. CRICOS No.00213J](http://www.student.qut.edu.au/studying/courses/course?courseCode=IF49&courseID=15631. CRICOS No.00213J)
**Doctor of Philosophy (Mathematics)**

**Handbook**

<table>
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<th>Year</th>
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<tr>
<td>QUT code</td>
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<td>CRICOS</td>
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<td>Duration (part-time domestic)</td>
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<td>Domestic fee (indicative)</td>
<td>Aust citizens or PRs will be awarded an RTS/RTA place or a QUT sponsorship for tuition fees. If you exceed the max time, you will be charged - 2012: $12,400 per Semester</td>
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<td>Int. Start Months</td>
<td>At any time</td>
</tr>
<tr>
<td>Course Coordinator</td>
<td>Enquiries to <a href="mailto:sef.research@qut.edu.au">sef.research@qut.edu.au</a> or 07 3138 2595.</td>
</tr>
<tr>
<td>Discipline Coordinator</td>
<td>Science and Engineering Faculty 3138 2595 <a href="mailto:sef.research@qut.edu.au">sef.research@qut.edu.au</a></td>
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**Domestic Entry requirements**
Candidates must have a relevant first-class or second-class division A (upper division) honours degree or an appropriate masters degree.

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**Entry Requirements**
Candidates must have a relevant first-class or second-class division A (upper division) honours degree or an appropriate masters degree.

**Course Description**
When enrolling in the doctoral program, you can undertake an approved project in any field of interest supported by a Science research area within the Faculty of Science and Technology (outlined in the Faculty Prospectus).

Please note that these areas of research specialisation are given as a guide only. Staff are happy to discuss these and any related topics. Please contact the program leader of the relevant research area for further information.

You can undertake the course either full-time or part-time. If studying full-time with an appropriate honours degree, you can expect to complete your Doctor of Philosophy degree in three-and-a-half-years.

**Further Information**
For further information about this course, please contact:

Professor Chris Langton  
Assistant Dean - Research  
Science and Engineering Research,
**Doctor of Philosophy (Science)**

### Domestic Entry requirements
Candidates must have a relevant first-class or second-class division A (upper division) honours degree or an appropriate masters degree.

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You can undertake the course either full-time or part-time. If studying full-time with an appropriate honours degree, you can expect to complete your Doctor of Philosophy degree in three-and-a-half years.

### Further Information
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Professor Chris Langton  
Assistant Dean - Research  
Science and Engineering Research,
Doctor of Information Technology

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Course Structure
The degree consists of 288 credit points of which up to 96 credit points are coursework, and the balance is research. Students are expected to develop a high level of research skill and analysis and make an original contribution to knowledge and professional practice. The Doctor of Information Technology will provide focused research and coursework studies in the IT's research areas.

Research Area
Areas of research interest and contact details can be obtained from the Faculty website.

Further Information
For further information about this course, please contact:

Associate Professor Shlomo Geva
Phone: +61 7 3138 2595
Email: sef.research@qut.edu.au

Sample Structure

<table>
<thead>
<tr>
<th>Semesters</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Year 1, Semester 1</td>
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</tr>
<tr>
<td>Year 1, Semester 2</td>
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<tr>
<td>Year 2 to Year 3</td>
<td></td>
</tr>
<tr>
<td>Computer Science</td>
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<tr>
<td>Information Systems</td>
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<table>
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<tr>
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<tr>
<td>PG coursework elective unit</td>
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<td>PG coursework elective unit</td>
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<tr>
<td>INN690 Minor Project 1</td>
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</tbody>
</table>
### Doctor of Information Technology

#### Domestic Entry requirements
To be eligible for this course, applicants must have industry experience in a field relevant to the professional doctorate and possess one of the following:

- a four-year degree or its equivalent with first-class or second-class honours division A
- a masters degree
- a three-year bachelor degree and industry experience
- an equivalent combination of experience and/or education and training.

Students with exemplary professional practice and who do not meet one of the above criteria may still be eligible to apply and should consult the course coordinator.

Before submitting an application for enrolment, potential candidates should consult the course coordinator for assistance with preparation of the appropriate application form concerning eligibility and special interests.

#### Minimum English requirements
Students must meet the English proficiency requirements.

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#### Course Structure
The degree consists of 288 credit points of which up to 96 credit points are coursework, and the balance is research. Students are expected to develop a high level of research skill and analysis and make an original contribution to knowledge and professional practice. The Doctor of Information Technology will provide focused research and coursework studies in the IT's research areas.

#### Research Area
Areas of research interest and contact details can be obtained from the Faculty website.

#### Further Information
For further information about this course, please contact:

- Associate Professor Richi Nayak
  - Phone: +61 7 3138 2595
  - Email: sef.research@qut.edu.au

#### Domestic Course Structure
The degree consists of 288 credit points of which up to 96 credit points are coursework, and the balance is research. Students are expected to develop a high level of research skill and analysis and make an original contribution to knowledge and professional practice. The Doctor of Information Technology will provide focused research and coursework studies in the IT's research areas.

#### International Course Structure
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samples in the IT's research areas.

Sample Structure

Semesters

- Notes
- Year 1, Semester 1
- Year 1, Semester 2
- Year 2 to Year 3
- Computer Science
- Information Systems

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<tr>
<td>PG coursework elective unit</td>
<td></td>
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<tr>
<td>PG coursework elective unit</td>
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<tr>
<td>INN690</td>
<td>Minor Project 1</td>
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<tr>
<td>Allows you an opportunity to extend your knowledge in related fields, improve your understanding of project management, develop venture capital, leadership competencies or to lead research groups.</td>
<td></td>
</tr>
<tr>
<td>Coursework should normally be completed within the first year, subject to unit availability. Variations to this would be made in consultation with your supervisory team.</td>
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<td>Year 1, Semester 2</td>
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<td>INN691</td>
<td>Minor Project 2</td>
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<td>INN701</td>
<td>Advanced Research Topics</td>
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<td>A pilot study of the selected theory and method to a subset of the problem in order to test the efficacy of the methods and theories selected.</td>
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<td>Students construct an integrated research proposal.</td>
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