

Handbook

Year	2015
QUT code	EN02
CRICOS	086329G
Duration (full-time international)	1 year
OP	14
Rank	70
International fee (indicative)	2015: \$12,500 per study period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Course Coordinator	Ken Beutel; kenneth.beutel@qut.edu.au
Discipline Coordinator	

International Subject prerequisites

- Maths B

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	5.0
Writing	5.0
Reading	5.0
Listening	5.0
Overall	5.5

Diploma in Engineering

The Diploma of Engineering provides students with knowledge of current developments in the engineering environment, and equips them with the skills necessary to process fundamental engineering problems. Knowledge and skills will be based on established Engineering approaches and practices. Students gain coherent and integrated theoretical and practical knowledge with emphasis on developing technical, analytical, decision-making, problem solving and teamwork skills with real world application. The Diploma also emphasises the development of academic literacy, professional communication and reflective learning skills which assist in preparing students for the demands of work, further learning, and continued personal and professional development.

International Course structure

You will complete six of engineering core units as well as two units of communication studies.

Diploma in Engineering units

- Engineering Mathematics
- Energy in Engineering Systems
- Introductory Engineering Mathematics
- Foundations of Electrical Engineering
- Civil Engineering Materials
- Engineering Computation
- Professional Communication 1
- Professional Communication 2

Extension English sessions

For first-semester students, these language sessions take place during weeks 2-8.

Other QUTIC students in university entry programs may join the sessions if their timetable permits.

The aim of extension English sessions is to improve your English language proficiency in speaking, listening and overall writing ability in a relaxed environment.

In addition to developing these language skills, you will have the opportunity to discuss cultural issues and ask questions about studying at university.

Sample Structure

Code	Title
Semester 1	

EGD121	Engineering Mechanics
EGD113	Energy in Engineering Systems
EGD125	Introductory Engineering Mathematics
QCD110	Professional Communication 1
Semester 1	
EGD120	Foundations of Electrical Engineering
EGD270	Civil Engineering Materials
EGD126	Engineering Computation
QCD210	Professional Communication 2

Handbook

Year	2015
QUT code	IT10
CRICOS	081616G
Duration (full-time international)	1 year
OP	14
Rank	70
International fee (indicative)	2015: \$9,036 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Course Coordinator	Ken Beutel (kenneth.beutel@qut.edu.au)
Discipline Coordinator	

International Subject prerequisites

- English

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	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

Diploma in Information Technology units

- Impact of IT
- Computer Technology Fundamentals
- Designing for IT
- Building IT Systems
- Programming Principles
- Modelling Information Systems
- 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.

Sample Structure

Code	Title
Semester One	
ITD101	Impact of IT
ITD102	Computer Technology Fundamentals
ITD104	Building IT Systems
QCD110	Professional Communication 1
NOTE: ITD101 & ITD102 are offered in ALTERNATE semesters	
Semester Two	
ITD103	Designing for IT
ITD121	Programming Principles
ITD122	Modelling Information Systems
QCD210	Professional Communication 2
NOTE: ITD103 & ITD122 are offered in ALTERNATE semesters	

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +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 (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	6.5

Professional Recognition

Full professional accreditation from Engineers Australia has been given for all primary majors in this course.

Complementary Studies

You have the opportunity to undertake a second major or two minors. A second major is a set of eight units (96 credit points) in the same discipline. A minor is a set of four units (48 credit points) in the same discipline. 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 (Honours) 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).

Course Design

Your QUT Bachelor of Engineering (Honours) degree consists of 384 credit points (32 units) arranged as follows:

(a) First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)

(b) Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit

points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Available Majors are:

- Civil
- Computer and Software Systems
- Electrical
- Electrical and Aerospace
- Mechatronics
- Mechanical
- Medical, or
- Process

(c) Complementary Studies: 1 x Second Major (8 unit set) or 2 x Minor (4 unit set each) from the options specified for your chosen major. (96 credit points)

Pathways to Further Study

The (EN01) Bachelor of Engineering (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical

Bachelor of Engineering (Honours)

	Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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.Mahalanga-Iyer; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Professor Manicka Dhanasekar

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Civil) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Bachelor of Engineering (Honours) (Civil)

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	

Code	Title
Year 2, Semester 1	
EGB270	Civil Engineering Materials
EGB273	Principles of Construction
EGB275	Structural Mechanics
EGB371	Engineering Hydraulics
Year 2, Semester 2	
EGB272	Traffic and Transport Engineering
EGB373	Geotechnical Engineering
EGB376	Steel Design
EGH471	Advanced Water Engineering
Year 3, Semester 1	
EGB375	Design of Concrete Structures
EGH473	Advanced Geotechnical Engineering
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 2	
EGH472	Advanced Highway and Pavement Engineering
EGH475	Advanced Concrete Structures
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 2	
EGH400-2	Research Project 2
EGH479	Advances in Civil Engineering Practice
2nd Major/Minor unit	
2nd Major/Minor unit	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Wayne Kelly

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Computer and Software Systems) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Bachelor of Engineering (Honours) (Computer and Software Systems)

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

Foundation Unit Option

Code	Title
Year 2, Semester 1	
EGB240	Electronic Design
EGB242	Signal Analysis
CAB202	Microprocessors and Digital Systems
CAB201	Programming Principles
Year 2, Semester 2	
CAB403	Systems Programming
Intermediate Electrical Unit Option	
Intermediate Electrical or Software Unit Option	
2nd Major/Minor unit	
Year 3, Semester 1	
Intermediate Software Unit Option	
Advanced Electrical Unit Option	
EGH456	Embedded Systems
2nd Major/Minor unit	
Year 3, Semester 2	
EGH455	Advanced Systems Design
Advanced Software Unit Option	
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 2	
EGH400-2	Research Project 2
Advanced Electrical or Software Unit Option	
2nd Major/Minor unit	
2nd Major/Minor unit	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Felipe Gonzalez

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Electrical and Aerospace) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Bachelor of Engineering (Honours) (Electrical and Aerospace)

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

	Engineering
OR	
Foundation Unit Option	

Code	Title
Year 2, Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB242	Signal Analysis
EGB243	Aircraft Systems and Flight
Year 2, Semester 2	
EGB345	Control and Dynamic Systems
EGB346	Unmanned Aircraft Systems
Intermediate Electrical Unit Option	
2nd Major/Minor unit	
Year 3, Semester 1	
EGB349	Systems Engineering and Design Project
Advanced Electrical Unit Option	
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 2	
EGH445	Modern Control
EGH450	Advanced Unmanned Aircraft Systems
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH446	Autonomous Systems
2nd Major/Minor unit	
Year 4, Semester 2	
EGH400-2	Research Project 2
Advanced Electrical Unit Option	
2nd Major/Minor unit	
2nd Major/Minor unit	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Jacob Coetzee

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Electrical) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Bachelor of Engineering (Honours) (Electrical)

Semesters

- [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 2, Semester 1	
EGB241	Electromagnetics and Machines
EGB242	Signal Analysis
CAB202	Microprocessors and Digital Systems
EGB240	Electronic Design
Year 2, Semester 2	
Intermediate Electrical Option Unit	
Intermediate Electrical Option Unit	
Intermediate Electrical Option Unit	
2nd Major/Minor unit	
Year 3, Semester 1	
EGB340	Design and Practice
Advanced Electrical Option Unit	
Advanced Electrical Option Unit or 2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 2	
Advanced Electrical Option Unit	
Advanced Electrical Option Unit	
2nd Major/Minor unit or Advanced Electrical Option Unit	
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 2	
EGH400-2	Research Project 2
Advanced Electrical Option Unit	
2nd Major/Minor unit	
2nd Major/Minor unit	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	

Foundation Unit Option	
Select 36cp from the Intermediate Electrical Unit Options below:	
Code	Title
EGB341	Energy Supply and Delivery
EGB342	Telecommunications and Signal Processing
EGB345	Control and Dynamic Systems
EGB348	Electronics

Select 60cp from the Advanced Electrical Unit Options below:	
Code	Title
EGH440	Power Systems Analysis
EGH441	Power System Modelling
EGH442	RF Techniques and Applications
EGH443	Advanced Telecommunications
EGH444	Digital Signals and Image Processing
EGH445	Modern Control
EGH446	Autonomous Systems
EGH448	Power Electronics
EGH449	Advanced Electronics

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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.Mahalanga-Iyer; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Professor Ted Steinberg

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

candidate for the degree of Bachelor of Engineering (Honours)(Mechanical) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)

Bachelor of Engineering (Honours) (Mechanical)

- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

Code	Title
Year 2, Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
EGB314	Strength of Materials
EGB323	Fluid Mechanics
Year 2, Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB321	Dynamics of Machines
EGB322	Thermodynamics
2nd Major/Minor unit option	
Year 3, Semester 1	
EGB316	Design of Machine Elements
EGH423	Fluids Dynamics
2nd Major/Minor unit option	
2nd Major/Minor unit option	
Year 3, Semester 2	
EGH414	Stress Analysis
EGH421	Vibration and Control
EGH422	Advanced Thermodynamics
2nd Major/Minor unit option	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
2nd Major/Minor unit option	
2nd Major/Minor unit option	
Year 4, Semester 2	
EGH400-2	Research Project 2
EGH420	Mechanical Systems Design
2nd Major/Minor unit option	
2nd Major/Minor unit option	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Jason Ford

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Mechatronics) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)

Bachelor of Engineering (Honours) (Mechatronics)

- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

Code	Title
Year 2, Semester 1	
EGB211	Dynamics
EGB242	Signal Analysis
EGB220	Mechatronics Design 1
Intermediate Electrical or Mechanical unit	
Year 2, Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB345	Control and Dynamic Systems
Intermediate Electrical or Mechanical unit	
2nd Major/Minor unit	
Year 3, Semester 1	
EGH446	Autonomous Systems
EGB320	Mechatronics Design 2
Advanced Electrical or Mechanical Unit	
2nd Major/Minor unit	
Year 3, Semester 2	
EGH445	Modern Control
Advanced Electrical or Mechanical Unit	
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 2	
EGH400-2	Research Project 2
EGH419	Mechatronics Design 3
2nd Major/Minor unit	
2nd Major/Minor unit	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Devakar Epari d.epari@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 (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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Medical) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Bachelor of Engineering (Honours) (Medical)

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

Foundation Unit Option

Code	Title
Year 2, Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
EGB314	Strength of Materials
LSB131	Anatomy
Year 2, Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
2nd Major/Minor unit option	
2nd Major/Minor unit option	
Year 3, Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
2nd Major/Minor unit option	
2nd Major/Minor unit option	
Year 3, Semester 2	
EGH424	Biofluids
EGH418	Biomechanics
EGH414	Stress Analysis
2nd Major/Minor unit option	
Year 4, Semester 1	
SEB400	Foundations of Research
To be replaced by EGH404 from Semester 2, 2016	
EGH400-1	Research Project 1
EGH438	Biomaterials
2nd Major/Minor unit option	
Year 4, Semester 2	
EGH400-2	Research Project 2
EGH435	Modelling and Simulation for Medical Engineers
2nd Major/Minor unit option	
2nd Major/Minor unit option	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Associate Professor Robert Speight

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Process) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)

Bachelor of Engineering (Honours) (Process)

- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

Code	Title
Year 2, Semester 1	
CVB101	General Chemistry
EGB211	Dynamics
EGB260	Operations Management and Process Economics
EGB323	Fluid Mechanics
Year 2, Semester 2	
EGB360	Plant and Process Design
EGB322	Thermodynamics
EGB363	Safety and Environmental Management
2nd Major/Minor unit	
Year 3, Semester 1	
EGB361	Minerals and Minerals Processing
EGH423	Fluids Dynamics
EGH461	Unit Operations
2nd Major/Minor unit	
Year 3, Semester 2	
EGH411	Industrial Chemistry
EGH422	Advanced Thermodynamics
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 2	
EGH400-2	Research Project 2
EGH460	Advanced Process Modelling
2nd Major/Minor unit	
2nd Major/Minor unit	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	

Handbook

Year	2015
QUT code	EN40
CRICOS	056529D
Duration (full-time)	4 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
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.Mahalanga-Iyer; ph: +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 (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 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.

Honours

EN40 students who meet GPA requirements are eligible to be awarded Bachelor of Engineering with Honours. The Honours GPA requirements are set out in [MOPP – 5.2.5 Grading system – awards with honours and bachelor honours degrees.](#)

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).

Handbook

Year	2015
QUT code	EN40
CRICOS	056529D
Duration (full-time)	4 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Felipe Gonzalez

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.

Honours

EN40 students who meet GPA requirements are eligible to be awarded Bachelor of Engineering with Honours. The Honours GPA requirements are set out in [MOPP – 5.2.5 Grading system – awards with honours and bachelor honours degrees](#).

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).

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

Bachelor of Engineering (Aerospace Avionics)

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

Course Updates

From 2015, some first year core units in EN40 Bachelor of Engineering have been recoded, renamed or discontinued. To see how these changes affect you, please consult the Engineering unit replacement table below in conjunction with the revised 2015 course structures. Affected Study Plans are being amended to reflect the changes.

Please contact the Faculty if you have any concerns.

[Engineering Unit Replacement Table](#) ►

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](#)
- [Aerospace Avionics Selectives](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
ENB110	Engineering Statics and Materials
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MZB125	Introductory Engineering Mathematics
[MAB125 replaced by MZB125 in 2015]	
Or	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
Year 1 - Semester 2	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
ENB150	Introducing Engineering Design
Note: ENB150 is replaced by EGB111 (sem 1 unit) from 2015 -	
EGB111	Foundation of Engineering Design
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
OR	
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
Year 2 - Semester 1	
ENB240	Introduction To Electronics

ENB246	Engineering Problem Solving
ENB250	Electrical Circuits
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
OR	
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
Year 2 - Semester 2	
ENB121	Aerodynamics
ENB242	Introduction To Telecommunications
ENB243	Linear Circuits and Systems
CAB202	Microprocessors and Digital Systems
(ENB244 replaced by CAB202 in 2014.)	
Year 3 - Semester 1	
ENB241	Software Systems Design
ENB342	Signals, Systems and Transforms
ENB348	Aircraft Systems and Flight Control
ENB354	Introduction To Systems Design
Year 3 - Semester 2	
ENB343	Fields, Transmission and Propagation
ENB347	Modern Flight Control Systems
ENB355	Advanced Systems Design
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
OR	
Selective	
Year 4 - Semester 1	
BEB801	Project 1
ENB346	Digital Communications
ENB440	RF Techniques and Modern Applications
ENB451	Aerospace Radio and Radar Systems
Year 4 - Semester 2	
SEB701	Work Integrated Learning 1
(BEB701 replaced by SEB701 in 2014.)	
BEB802	Project 2
ENB357	Spacecraft Dynamics and Control
ENB447	Navigation Systems For Aircraft
Aerospace Avionics Selectives	
ENB344	Industrial Electronics
ENB441	Applied Image Processing
ENB448	Signal Processing and Filtering
CAB201	Programming Principles
[INB270 replaced by CAB201 in 2015]	
ENB457	Controls, Systems and Applications
[Note: ENB457 requires Subject Area Coordinator approval]	
NOTE: other units subject to Subject Area Coordinator approval	
CRB040	Learning Science Through

Teaching

Handbook

Year	2015
QUT code	EN40
CRICOS	056529D
Duration (full-time)	4 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Prof Manicka Dhanasekar

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 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

Minors:

Civil and Construction Engineering minor
plus

A minor from anywhere in QUT that is outside of the course (see [University Wide Minors](#)), or one of the Engineering Minors - Dynamics Minor, Materials and Design Minor, Robotics Minor or Thermofluids Minor.

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).

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 (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. 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 (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

Course Updates

From 2015, some first year core units in EN40 Bachelor of Engineering have been recoded, renamed or discontinued. To see how these changes affect you, please consult the Engineering unit replacement table below in conjunction with the revised 2015 course structures. Affected Study Plans are being amended to reflect the changes.

Please contact the Faculty if you have any concerns.

Engineering Unit Replacement Table

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](#)
- [Civil and Construction Engineering Selectives](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
ENB110	Engineering Statics and Materials
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MZB125	Introductory Engineering Mathematics
[MAB125 replaced by MZB125 in 2015]	
Or	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
Year 1 - Semester 2	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
ENB150	Introducing Engineering Design
Note: ENB150 is replaced by EGB111 (sem 1 unit) from 2015 -	
EGB111	Foundation of Engineering Design
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
OR	
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
Year 2 - Semester 1	
ENB270	Engineering Mechanics of Materials
ENB272	Geotechnical Engineering 1
ENB273	Civil Materials
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
Year 2 - Semester 2	
ENB275	Project Engineering 1
ENB276	Structural Engineering 1
ENB280	Hydraulic Engineering
UDB214	Professional Studies 2
Year 3 - Semester 1	
ENB277	Construction Engineering

	Law
ENB375	Structural Engineering 2
ENB381	Civil Engineering Construction
UDB312	Contract Administration
Year 3 - Semester 2	
ENB371	Geotechnical Engineering 2
ENB373	Design and Construction of Steel Structures
ENB382	Estimating in Engineering Construction
Second Major/Minor unit	
Year 4 - Semester 1	
BEB801	Project 1
ENB471	Design of Concrete Structures and Foundations
Second Major/Minor unit	
Second Major/Minor unit	
Year 4 - Semester 2	
SEB701	Work Integrated Learning 1
(BEB701 replaced by SEB701 in 2014.)	
ENB481	Civil Engineering Project Management
Second Major/Minor unit	
Selective	
Civil and Construction Engineering Selectives	
BEB802	Project 2
ENB376	Transport Engineering

Handbook

Year	2015
QUT code	EN40
CRICOS	056529D
Duration (full-time)	4 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Prof Manicka Dhanasekar

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.

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 and Environmental) must obtain at least 60 days of industrial experience/practice in an engineering environment as part of the Work Integrated Learning unit.

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.

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.

Bachelor of Engineering (Civil and Environmental)

Sample Structure

Course Updates

From 2015, some first year core units in EN40 Bachelor of Engineering have been recorded, renamed or discontinued. To see how these changes affect you, please consult the Engineering unit replacement table below in conjunction with the revised 2015 course structures. Affected Study Plans are being amended to reflect the changes.

Please contact the Faculty if you have any concerns.

[Engineering Unit Replacement Table](#) ►

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](#)
- [Civil and Environmental Engineering Selectives](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
ENB110	Engineering Statics and Materials
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MZB125	Introductory Engineering Mathematics
[MAB125 replaced by MZB125 in 2015]	
or	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
Year 1 - Semester 2	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EG B120 in 2015]	
ENB150	Introducing Engineering Design
Note: ENB150 is replaced by EGB111 (sem 1 unit) from 2015 -	
EGB111	Foundation of Engineering Design
Engineering Option Unit	
[Engineering Option Unit replaces ENB200 in 2015. See Engineering Unit Option List]	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
OR	
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
Year 2 - Semester 1	
ENB270	Engineering Mechanics of Materials
ENB272	Geotechnical Engineering 1
ENB273	Civil Materials
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
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
EVB201	Global Environmental Issues
OR	
ERB202	Marine Geoscience
(NQB302/NQB314 alternate replaced by EVB201/ERB202 in 2014.)	
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
Selective	
Year 4 - Semester 2	
SEB701	Work Integrated Learning 1
(BEB701 replaced by SEB701 in 2014.)	
ENB377	Water and Waste Water Treatment Engineering
UDB370	Environmental Planning and Management
One of:	
EVB204	Land Resource Assessment
EVB212	Soils and the Environment
ERB310	Groundwater Systems
(NQB403/NQB614 alternate replaced by EVB212/EVB204/ERB310. NQB403 replaced by EVB212/EVB204 in 2014. NQB614 replaced by ERB310 in 2015. Please note: EVB212 is a semester 1 unit.)	
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

Handbook

Year	2015
QUT code	EN40
CRICOS	056529D
Duration (full-time)	4 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Prof Manicka Dhanasekar

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](#)) or one of the Engineering Minors - Dynamics Minor, Materials and Design Minor, Robotics Minor or Thermofluids Minor.

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.

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.

Honours

EN40 students who meet GPA requirements are eligible to be awarded Bachelor of Engineering with Honours. The Honours GPA requirements are set out in [MOPP – 5.2.5 Grading system – awards with](#)

[honours and bachelor honours degrees.](#)

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 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 undertake 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 undertake 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 Course Updates

From 2015, some first year core units in EN40 Bachelor of Engineering have been recoded, renamed or discontinued. To see how these changes affect you, please consult the Engineering unit replacement table below in conjunction with the revised 2015 course structures. Affected Study Plans are being amended to reflect the changes.

Please contact the Faculty if you have any concerns.

[Engineering Unit Replacement Table](#) ►

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](#)
- [Civil Engineering Selectives](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
ENB110	Engineering Statics and Materials
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MZB125	Introductory Engineering Mathematics
[MAB125 replaced by MZB125 in 2015]	
Or	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
Year 1 - Semester 2	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
ENB150	Introducing Engineering Design
Note: ENB150 is replaced by EGB111 (sem 1 unit) from 2015 -	
EGB111	Foundation of Engineering Design
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
OR	
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
Year 2 - Semester 1	
ENB270	Engineering Mechanics of Materials
ENB272	Geotechnical Engineering 1
ENB273	Civil Materials
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
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
ENB375	Structural Engineering 2
ENB378	Water Engineering
Second Major/Minor unit	
Year 3 - Semester 2	
ENB371	Geotechnical Engineering 2
ENB376	Transport Engineering
ENB377	Water and Waste Water Treatment Engineering
Second Major/Minor unit	
Year 4 - Semester 1	
SEB701	Work Integrated Learning 1
(BEB701 replaced by SEB701 in 2014.)	
BEB801	Project 1
ENB471	Design of Concrete Structures and Foundations
Second Major/Minor unit	
Year 4 - Semester 2	
ENB472	Project Engineering 2
ENB476	Civil Engineering Design Project
Second Major/Minor unit	
Selective	
Civil Engineering Selectives	
BEB802	Project 2
ENB373	Design and Construction of Steel Structures
ENB379	Transport Engineering and Planning Applications
ENB380	Environmental Law and Assessment
ENB383	Environmental Resource Management
ENB384	Design of Masonry Structures
ENB473	Design and Construction of Multi-storey Buildings
ENB474	Finite Element Methods
ENB475	Structural Engineering 3
ENB477	Facade Engineering
ENB478	Advanced Water Engineering
ENB481	Civil Engineering Project Management
ENB485	Advanced Geotechnical Engineering Practice

Handbook

Year	2015
QUT code	EN40
CRICOS	056529D
Duration (full-time)	4 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Wayne Kelly

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

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.

Honours

EN40 students who meet GPA requirements are eligible to be awarded Bachelor of Engineering with Honours. The Honours GPA requirements are set out in [MOPP – 5.2.5 Grading system – awards with honours and bachelor honours degrees](#).

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 software development, and cover the fundamentals of analogue and digital electronics, and the approach to writing software to solve engineering problems. A mathematics unit is completed. Semester two expands on electronics circuit design, introduces fundamentals of telecommunications and networking protocols, and broadens computer programming skills.

Year 3

You build on your knowledge of software engineering principles, covering topics 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.

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 expand your knowledge of software development, and cover the fundamentals of

Bachelor of Engineering (Computer and Software Systems)

analogue and digital electronics, and the approach to writing software to solve engineering problems. A mathematics unit is completed. Semester two expands on electronics circuit design, introduces fundamentals of telecommunications and networking protocols, and broadens computer programming skills.

Year 3

You build on your knowledge of software engineering principles, covering topics 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

Course Updates

From 2015, some first year core units in EN40 Bachelor of Engineering have been recoded, renamed or discontinued. To see how these changes affect you, please consult the Engineering unit replacement table below in conjunction with the revised 2015 course structures. Affected Study Plans are being amended to reflect the changes.

Please contact the Faculty if you have any concerns.

[Engineering Unit Replacement Table](#) ►

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](#)
- [Computer and Software Systems Selectives](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
ENB110	Engineering Statics and Materials
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MZB125	Introductory Engineering Mathematics
[MAB125 replaced by MZB125 in 2015]	
Or	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
Year 1 - Semester 2	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
ENB150	Introducing Engineering Design

Note - ENB150 is replaced by EGB111 (sem 1 unit) from 2015 -	
EGB111	Foundation of Engineering Design
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
OR	
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
Year 2 - Semester 1	
ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
ENB250	Electrical Circuits
MAB127	Mathematics for Engineering 2
OR	
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
Year 2 - Semester 2	
ENB243	Linear Circuits and Systems
IAB130	Databases
(INB210 replaced by IAB130 in 2014.)	
CAB201	Programming Principles
(INB270 replaced by CAB201 in 2015)	
CAB202	Microprocessors and Digital Systems
(ENB244 replaced by CAB202 in 2014.)	
Year 3 - Semester 1	
ENB354	Introduction To Systems Design
INB301	The Business of IT
CAB302	Software Development
(INB370 replaced by CAB302 in 2015)	
INB371	Data Structures and Algorithms
Year 3 - Semester 2	
ENB355	Advanced Systems Design
CAB303	Networks
(INB251 replaced by CAB303 in 2015)	
CAB403	Systems Programming
(INB365 replaced by CAB403 in 2015)	
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
Or	
Selective	
Year 4 - Semester 1	
BEB801	Project 1
OR	
INB309-1	Major Project
ENB350	Real-time Computer-based Systems
SEB701	Work Integrated Learning 1
Selective	
Year 4 - Semester 2	
CAB240	Information Security
(INB255 replaced by CAB240 in 2015)	

BEB802	Project 2
OR	
INB309-2	Major Project
CAB210	People Context and Technology
(INB272 replaced by CAB210 in 2014.)	
IFB299	Application Design and Development
(INB372 replaced by IFB299 in 2015)	
Computer and Software Systems Selectives	
ENB242	Introduction To Telecommunications
ENB344	Industrial Electronics
ENB352	Communication Environments For Embedded Systems
INB340	Database Design
CAB340	Cryptography
(INB355 replaced by CAB340 in 2015)	
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB375	Parallel Computing
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
CRB040	Learning Science Through Teaching
Any other unit approved by coordinator.	

Handbook

Year	2015
QUT code	EN40
CRICOS	056529D
Duration (full-time)	4 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Jacob Coetzee

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 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

plus

A minor from anywhere in QUT that is outside of the course (see [University Wide Minors](#)), or one of the Engineering Minors - Dynamics Minor, Materials and Design Minor, Robotics Minor or Thermofluids Minor.

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

To graduate, students must complete at least 60 days industrial 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).

Honours

EN40 students who meet GPA requirements are eligible to be awarded Bachelor of Engineering with Honours. The Honours GPA requirements are set out in [MOPP – 5.2.5 Grading system – awards with honours and bachelor honours degrees](#).

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.

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

plus

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

Bachelor of Engineering (Electrical)

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

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.

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

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

Course Updates

From 2015, some first year core units in EN40 Bachelor of Engineering have been recorded, renamed or discontinued. To see how these changes affect you, please consult the Engineering unit replacement table below in conjunction with the revised 2015 course structures. Affected Study Plans are being amended to reflect the changes.

Please contact the Faculty if you have any concerns.

[Engineering Unit Replacement Table](#) ►

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](#)
- [Please note:](#)
- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Electrical Engineering Selectives](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
ENB110	Engineering Statics and Materials
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MZB125	Introductory Engineering Mathematics
[MAB125 replaced by MZB125 in 2015]	
OR	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
Year 1 - Semester 2	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
ENB150	Introducing Engineering Design
Note: ENB150 is replaced by EGB111 (sem 1 unit) from 2015 -	
EGB111	Foundation of Engineering Design
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
OR	
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
Year 2 - Semester 1	
ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
ENB250	Electrical Circuits
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
OR	
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
Year 2 - Semester 2	

ENB242	Introduction To Telecommunications
ENB243	Linear Circuits and Systems
ENB245	Introduction To Design and Professional Practice
CAB202	Microprocessors and Digital Systems
(ENB244 replaced by CAB202 in 2014.)	
Year 3 - Semester 1	
ENB241	Software Systems Design
ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
Year 3 - Semester 2	
ENB343	Fields, Transmission and Propagation
ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
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/SEB701, BEB801 and BEB802 together in either Semester 1 or 2.	
Year 4 - Semester 1	
BEB801	Project 1
ENB346	Digital Communications
Second Major/Minor unit	
Second Major/Minor unit	
Year 4 - Semester 2	
SEB701	Work Integrated Learning 1
(BEB701 replaced by SEB701 in 2014.)	
BEB802	Project 2
Second Major/Minor unit	
Second Major/Minor unit	
Electrical Engineering Selectives	
ENB339	Introduction to Robotics
ENB350	Real-time Computer-based Systems
ENB352	Communication Environments For Embedded Systems
ENB440	RF Techniques and Modern Applications
ENB441	Applied Image Processing
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB454	Power System Management
ENB455	Power Electronics
ENB456	Energy
ENB457	Controls, Systems and Applications
ENB458	Modern Control Systems
CRB040	Learning Science Through Teaching

Handbook

Year	2015
QUT code	EN40
CRICOS	056529D
Duration (full-time)	4 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Professor Ted Steinberg

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 Major and Minors

You will have the opportunity to undertake 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

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

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.

Honours

EN40 students who meet GPA requirements are eligible to be awarded Bachelor of Engineering with

Honours. The Honours GPA requirements are set out in [MOPP – 5.2.5 Grading system – awards with honours and bachelor honours degrees](#).

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 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 undertake 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

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

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 undertake 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

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

Course Updates

From 2015, some first year core units in EN40 Bachelor of Engineering have been recoded, renamed or discontinued. To see how these changes affect you, please consult the Engineering unit replacement table below in conjunction with the

revised 2015 course structures. Affected Study Plans are being amended to reflect the changes.

Please contact the Faculty if you have any concerns.

[Engineering Unit Replacement Table](#) ►

Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Year 2 - Semester 1](#)
- [Year 2 - Semester 2](#)
- [Please note:](#)
- [Year 3 - Semester 1](#)
- [Year 3 - Semester 2](#)
- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Mechanical Engineering Selectives](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
ENB110	Engineering Statics and Materials
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MZB125	Introductory Engineering Mathematics
[MAB125 replaced by MZB125 in 2015]	
OR	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
Year 1 - Semester 2	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
ENB150	Introducing Engineering Design
Note: ENB150 is replaced by EGB111 (sem 1 unit) from 2015 -	
EGB111	Foundation of Engineering Design
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
OR	
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
Year 2 - Semester 1	
ENB211	Dynamics
ENB212	Strength of Materials
ENB231	Materials and Manufacturing 1
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
OR	
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
Year 2 - Semester 2	
ENB205	Electrical and Computer Engineering
ENB215	Fundamentals of Mechanical Design
ENB221	Fluid Mechanics
ENB331	Materials and Manufacturing 2
Please note:	
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/SEB701, BEB801 and BEB802 together in either Semester 1 or 2.

Year 3 - Semester 1	
ENB222	Thermodynamics 1
ENB311	Stress Analysis
ENB312	Dynamics of Machinery
ENB316	Design of Machine Elements
Year 3 - Semester 2	
ENB313	Automatic Control
ENB317	Design and Maintenance of Machinery
ENB321	Fluids Dynamics
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
OR	
Selective	
Year 4 - Semester 1	
BEB801	Project 1
ENB421	Thermodynamics 2
Second Major/Minor unit	
Second Major/Minor unit	
Year 4 - Semester 2	
SEB701	Work Integrated Learning 1
(BEB701 replaced by SEB701 in 2014.)	
BEB802	Project 2
Second Major/Minor unit	
Second Major/Minor unit	
Mechanical Engineering Selectives	
ENB314	Industrial Noise and Vibration
ENB333	Operations Management
ENB336	Industrial Engineering
ENB339	Introduction to Robotics
ENB422	Energy Management
ENB423	Heating, Ventilation and Air-Conditioning
ENB432	Engineering Asset Management and Maintenance
ENB433	Plant and Process Design
ENB434	Tribology
ENB435	Computer Integrated Manufacturing
ENB477	Facade Engineering
CRB040	Learning Science Through Teaching

Handbook

Year	2015
QUT code	EN40
CRICOS	056529D
Duration (full-time)	4 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Jason Ford

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.

Honours

EN40 students who meet GPA requirements are eligible to be awarded Bachelor of Engineering with Honours. The Honours GPA requirements are set out in [MOPP – 5.2.5 Grading system – awards with honours and bachelor honours degrees](#).

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).

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

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

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

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 Course Updates

From 2015, some first year core units in EN40 Bachelor of Engineering have been recoded, renamed or discontinued. To see how these changes affect you, please consult the Engineering unit

replacement table below in conjunction with the revised 2015 course structures. Affected Study Plans are being amended to reflect the changes.

Please contact the Faculty if you have any concerns.

[Engineering Unit Replacement Table](#) ►

[Engineering Unit Replacement Table](#)

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](#)
- [Manufacturing 2nd Major Selectives](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
ENB110	Engineering Statics and Materials
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MZB125	Introductory Engineering Mathematics
[MAB125 is replaced by MZB125 in 2015]	
OR	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
Year 1 - Semester 2	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
ENB150	Introducing Engineering Design
Note: ENB150 is replaced by EGB111 (sem 1 unit) from 2015 -	
EGB111	Foundation of Engineering Design
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
OR	
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
Year 2 - Semester 1	
ENB211	Dynamics
ENB229	Mechatronics Project 1
ENB240	Introduction To Electronics
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
OR	
MXB107	Statistical Models for Data:

Relationships and Effects	
[MAB233 replaced by MXB107 in 2015]	
Year 2 - Semester 2	
ENB215	Fundamentals of Mechanical Design
ENB243	Linear Circuits and Systems
CAB202	Microprocessors and Digital Systems
(ENB244 replaced by CAB202 in 2014.)	
ENB339	Introduction to Robotics
OR	
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
Year 3 - Semester 1	
ENB212	Strength of Materials
ENB231	Materials and Manufacturing 1
ENB246	Engineering Problem Solving
ENB301	Instrumentation and Control
Year 3 - Semester 2	
ENB221	Fluid Mechanics
ENB329	Mechatronics Project 2
ENB331	Materials and Manufacturing 2
ENB339	Introduction to Robotics
OR	
Selective	
Year 4 - Semester 1	
BEB801	Project 1
ENB334	Design For Manufacturing
ENB435	Computer Integrated Manufacturing
Selective	
Year 4 - Semester 2	
SEB701	Work Integrated Learning 1
(BEB701 replaced by SEB701 in 2014.)	
BEB802	Project 2
ENB333	Operations Management
ENB436	Mechatronics System Design
Manufacturing 2nd Major Selectives	
Semester 1:	
ENB222	Thermodynamics 1
ENB350	Real-time Computer-based Systems
ENB439	Advanced Robotics
CAB320	Artificial Intelligence
[INB860 replaced by CAB320 in 2015]	
Semester 2:	
ENB352	Communication Environments For Embedded Systems
ENB457	Controls, Systems and Applications
ENB458	Modern Control Systems
CAB201	Programming Principles
[INB270 replaced by CAB201 in 2015]	
CRB040	Learning Science Through Teaching

Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Year 2 - Semester 1](#)

Bachelor of Engineering (Mechatronics)

- [Year 2 - Semester 2](#)
- [Year 3 - Semester 1](#)
- [Year 3 - Semester 2](#)
- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Robotics 2nd Major Selectives - Depth Set](#)
- [Robotics 2nd Major Selectives - Breadth Set](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
ENB110	Engineering Statics and Materials
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MAB125	Foundations of Engineering Mathematics
[MAB125 replaced by MZB125 in 2015]	
OR	
MAB126	Mathematics for Engineering 1
Year 1 - Semester 2	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
EGB111	Foundation of Engineering Design
[ENB150 replaced by EGB111 in 2015]	
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
MAB126	Mathematics for Engineering 1
OR	
MAB127	Mathematics for Engineering 2
Year 2 - Semester 1	
ENB211	Dynamics
ENB229	Mechatronics Project 1
ENB240	Introduction To Electronics
MAB127	Mathematics for Engineering 2
OR	
MAB233	Engineering Mathematics 3
Year 2 - Semester 2	
ENB215	Fundamentals of Mechanical Design
ENB243	Linear Circuits and Systems
CAB202	Microprocessors and Digital Systems
(ENB244 replaced by CAB202 in 2014.)	
ENB339	Introduction to Robotics
OR	
MAB233	Engineering Mathematics 3
Year 3 - Semester 1	
ENB212	Strength of Materials
ENB231	Materials and Manufacturing 1
ENB246	Engineering Problem Solving
ENB301	Instrumentation and Control
Year 3 - Semester 2	
ENB329	Mechatronics Project 2
ENB458	Modern Control Systems

ENB339	Introduction to Robotics
OR	
Depth Selective	
Breadth Selective	
Year 4 - Semester 1	
BEB801	Project 1
ENB439	Advanced Robotics
Two Selectives from Depth or Breadth Set	
Year 4 - Semester 2	
SEB701	Work Integrated Learning 1
(BEB701 replaced by SEB701 in 2014.)	
BEB802	Project 2
Two Selectives from Depth or Breadth Set	
Robotics 2nd Major Selectives - Depth Set	
ENB312	Dynamics of Machinery
ENB316	Design of Machine Elements
ENB342	Signals, Systems and Transforms
ENB344	Industrial Electronics
ENB441	Applied Image Processing
ENB448	Signal Processing and Filtering
ENB457	Controls, Systems and Applications
CAB320	Artificial Intelligence
[INB860 replaced by CAB320 in 2015]	
Robotics 2nd Major Selectives - Breadth Set	
ENB221	Fluid Mechanics
ENB222	Thermodynamics 1
ENB241	Software Systems Design
ENB242	Introduction To Telecommunications
ENB315	Motor Racing Vehicle Design
ENB350	Real-time Computer-based Systems

Handbook

Year	2015
QUT code	EN40
CRICOS	056529D
Duration (full-time)	4 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Devakar Epari

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

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.

Honours

EN40 students who meet GPA requirements are eligible to be awarded Bachelor of Engineering with Honours. The Honours GPA requirements are set out in [MOPP – 5.2.5 Grading system – awards with honours and bachelor honours degrees](#).

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

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.

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

Bachelor of Engineering (Medical)

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 intergrated learning unit, a project unit and two specialised engineering units.

Sample Structure

Course Updates

From 2015, some first year core units in EN40 Bachelor of Engineering have been recoded, renamed or discontinued. To see how these changes affect you, please consult the Engineering unit replacement table below in conjunction with the revised 2015 course structures. Affected Study Plans are being amended to reflect the changes.

Please contact the Faculty if you have any concerns.

[Engineering Unit Replacement Table](#) ►

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](#)
- [Medical Engineering Selectives](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
ENB110	Engineering Statics and Materials
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MZB125	Introductory Engineering Mathematics
[MAB125 replaced by MZB125 in 2015]	
OR	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
Year 1 - Semester 2	

EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
ENB150	Introducing Engineering Design
Note: ENB150 is replaced by EGB111 (sem 1 unit) from 2015 -	
EGB111	Foundation of Engineering Design
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
OR	
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
Year 2 - Semester 1	
ENB211	Dynamics
ENB212	Strength of Materials
LSB131	Anatomy
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
OR	
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
Year 2 - Semester 2	
ENB205	Electrical and Computer Engineering
ENB215	Fundamentals of Mechanical Design
ENB221	Fluid Mechanics
LSB231	Physiology
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
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
OR	
Selective	
Year 4 - Semester 2	
SEB701	Work Integrated Learning 1
(BEB701 replaced by SEB701 in 2014.)	
BEB802	Project 2

ENB437	Health Legislation in the Medical Environment
PCB605	Biomedical Instrumentation
Medical Engineering Selectives	
BSB115	Management
MXB103	Introductory Computational Mathematics
[MAB220 replaced by MXB103 in 2014]	
MAB422	Mathematical Modelling
[MAB422 discontinued in 2015]	
PCB593	Digital Image Processing
PCN112	Medical Imaging Science
PCN211	Physics of Medical Imaging
PYB100	Foundation Psychology
SCB384	Forensic Sciences - From Crime Scene to Court
[SCB384 discontinued in 2014]	
CRB040	Learning Science Through Teaching

Handbook

Year	2015
QUT code	EN40
CRICOS	056529D
Duration (full-time)	4 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Associate Professor Robert Speight

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

Course Overview

A Process Engineer develops and optimises industrial processes to make the huge range of products on which modern society depends. Process engineering involves refining, renewing or modifying raw materials. In today's world, processing efficiently, sustainably and with a low energy footprint is key to business operations and profitability.

Career Outcomes

The degree will develop responsible professionals with a sense of social awareness, leadership skills and problem solving. QUT has very strong industry links in Process Engineering and has current practicing Process and Chemical Engineers teaching into this course which will provide opportunities for site visits, work integrated learning and research projects.

A degree in Process Engineering will equip students for a wide variety of employment. Process Engineers are predominantly employed in the following sectors/sub-sectors:

- Oil and Gas Production
- Mining
- Refining
- Mineral Processing
- Chemical and Petrochemicals
- Metal Production
- Food Processing
- Electricity Supply
- Pharmaceuticals
- Bio-process industries such as Biofuels and Waste Product Processing

Professional membership

Graduates of this course will be eligible to apply for full professional membership of Engineers Australia

Honours

EN40 students who meet GPA requirements are eligible to be awarded Bachelor of Engineering with Honours. The Honours GPA requirements are set out in [MOPP – 5.2.5 Grading system – awards with honours and bachelor honours degrees](#).

Minors

You will have the opportunity to undertake a minor from anywhere in QUT that is outside of the course (see [University Wide Minors](#)) or one of the Engineering Minors - Dynamics Minor, Materials and Design Minor, Robotics Minor or Thermofluids Minor.

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.

Sample Structure Course Updates

From 2015, some first year core units in EN40 Bachelor of Engineering have been recoded, renamed or discontinued. To see how these changes affect you, please consult the Engineering unit replacement table below in conjunction with the revised 2015 course structures. Affected Study Plans are being amended to reflect the changes.

Please contact the Faculty if you have any concerns.

[Engineering Unit Replacement Table](#) ►

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	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
ENB110	Engineering Statics and Materials
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MZB125	Introductory Engineering Mathematics
[MAB125 replaced by MZB125 in 2015]	
OR	
MXB106	Linear Algebra and Differential Equations

Bachelor of Engineering (Process Engineering)

[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
Year 1 - Semester 2	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
ENB150	Introducing Engineering Design
Note: ENB150 is replaced by EGB111 (sem 1 unit) from 2015 -	
EGB111	Foundation of Engineering Design
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 in 2015 or MZB126 in Semester 1]	
OR	
MXB105	Calculus of One and Two Variables
[MAB127 replaced by MXB105 in 2015]	
Year 2 - Semester 1	
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
ENB222	Thermodynamics 1
ENB231	Materials and Manufacturing 1
In 2013 take:	
PQB525	Unit Operations
From 2014 onwards take:	
CVB221	Unit Operations
Year 2 - Semester 2	
CVB101	General Chemistry
ENB221	Fluid Mechanics
CVB211	Industrial Chemistry
ENB260	Operations Management and Process Economics
Year 3 - Semester 1	
ENB360	Heat and Mass Transfer Operations
ENB361	Minerals and Minerals Processing
ENB363	Safety and Environmental Management
Minor unit	
Year 3 - Semester 2	
ENB313	Automatic Control
CVB102	Chemical Structure and Reactivity
ENB362	Bulk Materials Handling
Minor unit	
Year 4 - Semester 1	
BEB801	Project 1
ENB460	Advanced Process Modelling
ENB461	Advanced Process Control Systems
Minor unit	
Year 4 - Semester 2	
SEB701	Work Integrated Learning 1
BEB802	Project 2
ENB433	Plant and Process Design
Minor unit	

Handbook

Year	2015
QUT code	EN40
CRICOS	056529D
Duration (full-time)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
Total credit points	384
Credit points full-time sem.	48
Course Coordinator	Dr R.Mahalinga-Iyer; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Wayne Kelly

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

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).

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.

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 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](#)
- [Software Engineering Selectives](#)

Code	Title
Year 1 - Semester 1	
ENB100	Engineering and Sustainability
ENB110	Engineering Statics and Materials
ENB120	Electrical Energy and Measurements
MAB125	Foundations of Engineering Mathematics
OR	
MAB126	Mathematics for Engineering 1
Year 1 - Semester 2	
ENB130	Mechanical and Thermal Energy
ENB150	Introducing Engineering Design
ENB200	Introducing Engineering Systems
MAB126	Mathematics for Engineering 1
OR	
MAB127	Mathematics for Engineering 2
Year 2 - Semester 1	
ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
ENB250	Electrical Circuits
MAB127	Mathematics for Engineering 2
OR	
MAB233	Engineering Mathematics 3
Year 2 - Semester 2	
ENB243	Linear Circuits and Systems

Bachelor of Engineering (Software Engineering)

INB210	Databases
INB251	Networks
INB270	Programming
Year 3 - Semester 1	
ENB354	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
OR	
Selective	
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
Software Engineering 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.	

Handbook

Year	2015
QUT code	EN40
CRICOS	056529D
Duration (full-time)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
Total credit points	384
Credit points full-time sem.	48
Course Coordinator	Dr R.Mahalinga-Iyer; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Jasmine Banks

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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.0

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.

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 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	
BEB100	Introducing Professional Learning
ENB101	Engineering Mechanics 1
ENB104	Engineering Materials
MAB131	Engineering Mathematics 1A

OR	
MAB180	Engineering Mathematics 1B
Year 1 - Semester 2	
BEB200	Introducing Sustainability
ENB103	Electrical Engineering
MAB132	Engineering Mathematics 2A
OR	
MAB182	Engineering Mathematics 2B
PCB136	Engineering Physics 1C
Year 2 - Semester 1	
ENB240	Introduction To Electronics
ENB242	Introduction To Telecommunications
INB104	Building IT Systems
MAB233	Engineering Mathematics 3
Year 2 - Semester 2	
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice
INB270	Programming
Year 3 - Semester 1	
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
INB251	Networks
Year 4 - Semester 1	
BEB801	Project 1
ENB440	RF Techniques and Modern Applications
INB350	Internet Protocols and Services
INB353	Wireless and Mobile Networks
Year 4 - Semester 2	
BEB802	Project 2
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering

Handbook

Year	2015
QUT code	IN01
CRICOS	012656E
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	12
Rank	74
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,400 per Study Period (48 credit points)
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	Mr Mike Roggenkamp; ph: +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)).

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 degree equips you to build and apply creative, innovative IT solutions across diverse industries. A hands-on, real world based curriculum gives you the opportunity to explore a wide range of areas within IT, and gain deep understanding within your chosen area specialty, such as networking, software development, data warehousing, business processes, information management, web technologies, or digital societies. You experience an innovative, hands-on approach to learning through projects where you develop IT systems. You will be able to gain entrepreneurial skills if you wish to learn how to develop an idea into a commercial opportunity. You learn to harness your creativity and people skills to maximise the impact of your technical know-how relative to the IT marketplace. It positions you for a challenging and rewarding career within the global economy.

Course Design

Requirements for the completion of IN01 Bachelor of Information Technology(Study Area A) are as follows:

- 72 credit points (6 units) of IT Core units, which includes 24 credit points (2 units) of Option Units selected from an approved list.
- 120 credit points (10 units) of Major Core units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set); or two Minors (4 unit set each); or one Minor (4 unit set) plus 4 elective units.

Majors

Choose your primary area of study, also known as your major, in the following specialisation areas: Information Systems or Computer Science.

Options List

The Bachelor of Information Technology Core Unit Options List comprises a range of units from which you choose to undertake two (2). You are able to undertake these options in any semester. The options include introductory units from a wide variety of disciplines offered at QUT.

Complementary Studies

Students may elect to undertake a Second Major (8 unit set), or two Minors (4 unit set each), or one Minor (4 unit set) plus 4 elective units.

Second Major:

A choice of one second major from:

- Technology Innovation and Design
- Computational and Simulation Science

Minors:

A choice of two minors from either Faculty or University Wide Options.

Professional Recognition

Professional recognition can be found in the individual majors of the Bachelor of Information Technology (IN01).

Pathways for Further Study

The QUT Bachelor of Information Technology is located at Level 7 of the Australian Qualifications Framework (AQF). Eligible graduates may continue their studies in these disciplines with an additional honours year in [\(IN10\) Bachelor of Information Technology \(Honours\)](#).

Handbook

Year	2015
QUT code	IN01
CRICOS	012656E
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	12
Rank	74
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,400 per Study Period (48 credit points)
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	Mr Mike Roggenkamp; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Professor Colin Fidge +61 7 3138 8822 sef.enquiry@qut.edu.au

Domestic Assumed knowledge

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

- Maths A, B or C
- 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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

Overview

Computer science is the scientific and practical approach to computer-based system design, development and operation. Its subfields range from the fundamental principles of computation through to tools and techniques for IT system development and evaluation. It includes identifying and solving systems design issues associated with achieving critical properties such as correctness, efficiency, robustness, usability and security. Its application extends into specialised areas including mobile computing, artificial intelligence, robotics, and large-scale information management involving information retrieval and web search engines.

Career Outcomes

Computer Science graduates will:

- be experienced in the principles and practice of software development;
- be familiar with the principles and operation of networked systems; and
- have a sound understanding of the shared foundations underlying all modern computer-based technologies.

In addition, depending on their choice of optional study areas, they will have the opportunity to gain specific expertise in Information Security, Networks and Communications, Intelligent Systems, Data-Centric Computing, or Human-Computer Interaction.

Course Design

Your QUT Bachelor of Information Technology (Computer Science) degree consists of 288 credit points (24 units) arranged as follows:

- 72 credit points (6 units) of Computer Science Core units, which includes 2 units from a selected options list.
- 120 credit points (10 units) of Computer Science discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set); or two Minors (4 unit set each); or one Minor (4 unit set) plus 4 elective units.

Computer Science Core Units

These units will engage you in understanding Computer Science from a practical approach with an understanding of a range of disciplinary and

multidisciplinary perspectives. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning to apply this knowledge in practical systems development projects.

Computer Science Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher order thinking to an advanced level.

Complementary Studies Options

Second Major:

A choice of one second major from:

- Technology Innovation and Design Second Major
- Computational and Simulation Science Second Major

Minors:

A choice of two minors from the lists below:

- Business Process Management Minor
- Data-Centric Computing Extension Minor
- Information Systems Minor
- Enterprise Systems Minor
- Human-Computer Interaction Minor
- Intelligent Systems Minor
- Mobile Applications Minor
- Networks and Security Minor
- Social Technology Minor
- Software Development for IS and Games Minor
- Technology Innovation Minor
- [University Wide Minors](#)

Professional membership

Graduates are eligible for membership of the ACS (Australian Computer Society)

Domestic Course structure

Requirements for the completion of IN01 Bachelor of Information Technology (Study Area A) are as follows:

- 72 credit points (6 units) of Information Technology Core units, which includes 24 credit points (2 units) of Option Units* selected from an approved list.
- 120 credit points (10 units) of Major Core units.
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set); or two Minors (4 unit set each); or one Minor (4 unit set) plus 4 elective units.

*Unit Options List - comprises a range of units from which you choose to undertake two (2). You are able to undertake these options in any semester. The options include introductory units from a wide variety of disciplines offered at QUT.

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](#)

Code	Title
Year 1, Semester 1	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
IFB103	Designing for IT

Bachelor of Information Technology (Computer Science)

IFB104	Building IT Systems
Year 1, Semester 2	
CAB201	Programming Principles
CAB202	Microprocessors and Digital Systems
Core Unit Option	
Core Unit Option	
Year 2, Semester 1	
CAB203	Discrete Structures
CAB302	Software Development
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 2, Semester 2	
CAB303	Networks
IFB299	Application Design and Development
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 1	
CAB301	Algorithms and Complexity
CAB398	Capstone Project (Phase 1)
2nd Major/Minor unit	
CS Major Elective choice from:	
CAB401	High Performance and Parallel Computing
CAB402	Programming Paradigms
CAB403	Systems Programming
Year 3, Semester 2	
CAB399	Capstone Project (Phase 2)
2nd Major/Minor unit	
2nd Major/Minor unit	
2nd Major/Minor unit	

Handbook

Year	2015
QUT code	IN01
CRICOS	012656E
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	12
Rank	74
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,400 per Study Period (48 credit points)
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	Mr Mike Roggenkamp; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Taizan Chan +61 7 3138 8822 sef.enquiry@qut.edu.au

Domestic Assumed knowledge

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

- Maths A, B or C
- 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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

Overview

Information systems focuses on identifying organisational requirements for applications and acquiring effective systems solutions, whether custom designed and built or selected and implemented, to meet the requirements. Skills involve the design and development of large database applications for business, as well as the purchase and implementation of packaged software addressing business problems. It does not require in-depth knowledge of computer programming but rather in-depth specialised knowledge of databases and software used in business or of the means to analyse business needs and, in partnership with the systems users, design solutions to the inefficiencies or ineffectiveness of business processes.

Career Outcomes

Information Systems graduates will have skills in design, systems thinking, stakeholder engagement and modelling and abstraction which position them to work as Business Analysts, IS Consultants, solving a range of organisational problems. In addition, depending on their choice of optional study areas, they will have the opportunity to gain specific expertise in Business Process Management, Social Media, Mobile Application Development or Services & Solutions undertaken through complementary minors. Specific skills in Service and Outcomes Management can be gained in the complementary minor called Service and Outcomes Management, which positions graduates for IT management roles within organisations. Finally, further knowledge of and skills in design and innovation can be gained in the secondary major of Systems Innovation, which will lead to careers as IT innovators within enterprises, consulting companies or in their own start-ups.

Course Design

Your QUT Bachelor of Information Technology (Information Systems) degree consists of 288 credit points (24 units) arranged as follows:

- 72 credit points (6 units) of Information Systems Core units, which includes 2 units from a selected options list.
- 120 credit points (10 units) of Information Systems discipline units.
- 96 credit points of complementary studies

comprising of either a Second Major (8 unit set); or two Minors (4 unit set each); or one Minor (4 unit set) plus 4 elective units.

Information Systems Core Units

These units will engage you in understanding Information Systems from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Information Systems Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher order thinking to an advanced level.

Complementary Studies Options

Second Major:

A choice of one second major from:

- Technology Innovation and Design Second Major
- Computational and Simulation Science Second Major

Minors:

A choice of two minors from the lists below:

- Business Process Management Minor
- Computer Science Minor
- Enterprise Systems Minor
- Human-Computer Interaction Minor
- Information Systems
- Intelligent Systems Minor
- Mobile Applications Minor
- Networks and Security Minor
- Social Technology Minor
- Software Development for IS and Games Minor
- Technology Innovation Minor
- [University Wide Minors](#)

Professional Recognition

Graduates are eligible for membership of the ACS (Australian Computer Society)

Domestic Course structure

Course Design

Requirements for the completion of IN01 Bachelor of Information Technology (Study Area A) are as follows:

- 72 credit points (6 units) of Information Technology Core units, which includes 24 credit points (2 units) of Option Units* selected from an approved list.
- 120 credit points (10 units) of Major Core units.
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set); or two Minors (4 unit set each); or one Minor (4 unit set) plus 4 elective units.

*Unit Options List - comprises a range of units from which you choose to undertake two (2). You are able to undertake these options in any semester. The options include introductory units from a wide variety of disciplines offered at QUT.

Sample Structure

Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)

Bachelor of Information Technology (Information Systems)

- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)

Code	Title
Year 1, Semester 1	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
IFB103	Designing for IT
IFB104	Building IT Systems
Year 1, Semester 2	
Core Unit Option	
Core Unit Option	
IAB201	Modelling Information Systems
IAB202	Business of Information Technology
Year 2, Semester 1	
IAB203	Business Process Modelling
IAB204	Business Analysis
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 2, Semester 2	
IFB299	Application Design and Development
IAB205	Corporate Systems
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 1	
IAB398	Capstone Project Part 1 - Design
IS Major Elective choice from:	
IAB302	Information Systems Consulting
IAB303	Business Intelligence
IAB304	Project Management
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 2	
IAB399	Capstone Project
IAB301	Enterprise Architecture
2nd Major/Minor unit	
2nd Major/Minor unit	

Handbook

Year	2015
QUT code	IT04
CRICOS	059710E
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	11
Rank	76
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	288
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Assumed knowledge

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

- Maths A, B or C
- English

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

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 Update

This course will be offered in 2014, however the course structure is being redeveloped and is subject to university approval.

For course updates please visit www.qut.edu.au/coursechanges

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 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

*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

Bachelor of Games and Interactive Entertainment

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 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.

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](#).

Domestic 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
- Impact of IT
- Design IT
- 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
- Impact of IT
- Design IT
- 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

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](#)

Code	Title
The course consists of four blocks of studies	
Block A: Core Studies (7 units including a 24 credit point Project)	
Block B: Major (8 units) selected from Animation; Games Design; Software Technologies	
Block C: Minor (4 units)	
Block D: Electives (4 units)	
The Cooperative Education Programs are replacements for general IT electives	
Year 1, Semester 1	
IFB103	Designing for IT
IFB104	Building IT Systems
INB180	Computer Games Studies
Block B or Block C or Block D Unit	
Year 1, Semester 2	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Block B or Block C or Block D Unit	
Block B or Block C or Block D Unit	
Year 2, Semester 1	
Block B or Block C or Block D Unit	
Block B or Block C or Block D Unit	
Block B or Block C or Block D Unit	
Block B or Block C or Block D Unit	
Year 2, Semester 2	
Block B or Block C or Block D Unit	
Block B or Block C or Block D Unit	
Block B or Block C or Block D Unit	
Block B or Block C or Block D Unit	
Year 3, Semester 1	
INB379	Game Project Design
Block B or Block C or Block D Unit	
Block B or Block C or Block D Unit	
Block B or Block C or Block D Unit	
Year 3, Semester 2	
INB380	Games Project
Block B or Block C or Block D Unit	
Block B or Block C or Block D Unit	
Note: Coop Ed students replace INB380 with INS011 and INS012	

Handbook

Year	2015
QUT code	IT04
CRICOS	059710E
Duration (full-time)	3 years
OP	1
Rank	99
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	
Start months	February Fixed closing date: The online questionnaire must be submitted by 16 November 2012
Int. Start Months	February Fixed closing date: The online questionnaire must be submitted by 16 November 2012
Course Coordinator	Mr Richard Thomas; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements 2013 questionnaires have closed

Questionnaires for the 2013 intake were due to completed on the 16 November 2012 and are now closed. If you had not submitted the questionnaire and you are considering applying to study in 2014 we recommend you read the following information as a guide only as it details requirements for entry in 2013 and these may change prior to the 2014 intake. You may also wish to consider applying for the standard entry program for 2013 entry.

Prerequisites

1. Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia.
2. Successful questionnaire

Additional entry requirements

In addition to applying through QTAC and you must also submit the [online Science and Engineering Dean's Scholars questionnaire](#) by the closing date.

Please note submitting the questionnaire with QUT is separate and in addition to listing the course as a preference with [QTAC](#). To successfully apply for entry into this course you are required to do both.

Closing date

Submit the [online questionnaire](#) with QUT by Friday, 16 November 2012.

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

Prerequisite

1. Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia.
2. Successful questionnaire

Closing date

Submit the questionnaire with QUT by Friday, 16 November 2012.

Additional Entry Requirements

In addition to applying through [QTAC](#) and you must also submit the online Science and Engineering Dean's Scholars questionnaire (available August) by the closing date.

Please Note: Submitting the questionnaire with QUT is separate and in addition to listing the course as a preference with [QTAC](#). To successfully apply for entry into this course you are required to do both.

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

Please Note

As of 2013, all new Dean's Scholar applicants will be admitted into the standard Bachelor programs, with no accelerated studies and no pre-approved articulation to Honours degrees.

As of 2014, there will not be a separate QTAC entry point for the Science and Engineering Dean's Scholar Programs whilst the scholarship undergoes a further review.

Eligibility Criteria

Applicants must:

- have completed Year 12 in the year they apply for the program, or the previous year
- have received an OP 1 (or equivalent)
- be starting university for the first time
- demonstrate leadership experience and potential
- demonstrate community participation and engagement
- apply for and gain a place in the relevant Dean's Scholars Program

If studying at QUT International College (QUTIC), applicant must have a grade point average (GPA) of at least 6.5 for the two semesters immediately before they apply for the Dean's Scholars Program.

If expecting to get an OP of 1-3, applicant should apply for consideration.

Conditions as of 2013.

To keep a place in the Dean's Scholars program, students must:

- maintain enrolment full-time in the eligible undergraduate course
- graduate from the Bachelor of Games and Interactive Entertainment within 3 years of starting, except where you've taken a leave of absence approved by the Assistant Dean, or there are other extenuating circumstances
- maintain a grade point average (GPA) of at least 6.0 each semester
- meet the requirements of program completion (for example work experience and work integrated learning)
- pay any costs associated with their program that aren't covered by the scholarship, including additional and repeated units
- demonstrate adequate participation in extracurricular elements of the program.

Students can:

• apply to change their course structure under exceptional circumstances. Students must apply through their academic mentor or course coordinator, and receive prior written approval from the Assistance Dean International and Engagement.

• apply [for other scholarships and bursaries](#), including ones associated with travel, as long as they are allowed to under the conditions of the other scholarship and under our [Industry sponsored student scholarships policy](#).

Financial Support as of 2013.

Successful applicants will receive:

• A scholarship of up to \$6,000 per annum, usually payable in 2 instalments of \$3,000 by the 2nd week of semester 1 and semester 2 of each year. The scholarship would apply for the full-time duration of the undergraduate degree, contingent upon students meeting the conditions of the program (refer to Conditions below). The total value of the scholarship is limited to \$18,000 for the 3 year programs and \$24,000 for the 4 year programs.

Financial Support prior to 2013

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.

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.

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

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](#).

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.

^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.

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.

^Only available to those undertaking the software technologies major.

Sample Structure

Code	Title
Course Notes	
Refer to IT04 course structure.	

Handbook

Year	2015
QUT code	IT06
CRICOS	059712C
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	12
Rank	75
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
Total credit points	288
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

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

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
- 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

Bachelor of Corporate Systems Management

- 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 intermediate level elective units.

- INB120 Corporate Systems
- INB220 Business Analysis
- INB255 Security
- INB272 Interaction Design

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

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

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.

Handbook

Year	2015
QUT code	IT06
CRICOS	059712C
Duration (full-time)	3 years
OP	1
Rank	99
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
Total credit points	
Start months	February Fixed closing date - 16 November 2012.
Int. Start Months	February Fixed closing date - 30 November
Course Coordinator	Mr Richard Thomas; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements 2013 questionnaires have closed

Questionnaires for the 2013 intake were due to completed on the 16 November 2012 and are now closed. If you had not submitted the questionnaire and you are considering applying to study in 2014 we recommend you read the following information as a guide only as it details requirements for entry in 2013 and these may change prior to the 2014 intake. You may also wish to consider applying for the standard entry program for 2013 entry.

Prerequisites

1. Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia.
2. Successful questionnaire

Additional entry requirements

In addition to applying through QTAC and you must also submit the [online Science and Engineering Dean's Scholars questionnaire](#) by the closing date.

Please note submitting the questionnaire with QUT is separate and in addition to listing the course as a preference with [QTAC](#). To successfully apply for entry into this course you are required to do both.

Closing date

Submit the [online questionnaire](#) with QUT by Friday, 16 November 2012.

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

Prerequisite

1. Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia.
2. Successful questionnaire

Closing date

Submit the questionnaire with QUT by Friday, 16 November 2012.

Additional entry requirements

In addition to applying through [QTAC](#) and you must also submit the online Science and Engineering Dean's Scholars questionnaire (available October) by the closing date.

Please note: Submitting the questionnaire with QUT is separate and in addition to listing the course as a preference with [QTAC](#). To successfully apply for entry into this course you are required to do both.

Applicants will be notified via email when the questionnaire is available.

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

Please Note

As of 2013, all new Dean's Scholar applicants will be admitted into the standard Bachelor programs, with no accelerated studies and no pre-approved articulation to Honours degrees.

As of 2014, there will not be a separate QTAC entry point for the Science and Engineering Dean's Scholar Programs whilst the scholarship undergoes a further review.

Eligibility Criteria

Applicants must:

- have completed Year 12 in the year they apply for the program, or the previous year
- have received an OP 1 (or equivalent)
- be starting university for the first time
- demonstrate leadership experience and potential
- demonstrate community participation and engagement
- apply for and gain a place in the relevant Dean's Scholars Program

If studying at QUT International College (QUTIC), applicant must have a grade point average (GPA) of at least 6.5 for the two semesters immediately before they apply for the Dean's Scholars Program.

If expecting to get an OP of 1-3, applicant should apply for consideration.

Financial Support as of 2013.

Successful applicants will receive:

- A scholarship of up to \$6,000 per annum, usually payable in 2 instalments of \$3,000 by the 2nd week of semester 1 and semester 2 of each year. The scholarship would apply for the full-time duration of the undergraduate degree, contingent upon students meeting the conditions of the program (refer to Conditions below). The total value of the scholarship is limited to \$18,000 for the 3 year programs and \$24,000 for the 4 year programs.

Conditions as of 2013.

To keep a place in the Dean's Scholars program, students must:

- maintain enrolment full-time in the eligible undergraduate course
- graduate from the Bachelor of Corporate Systems Management within 3 years of starting, except where you've taken a leave of absence approved by the Assistant Dean, or there are other extenuating

circumstances

- maintain a grade point average (GPA) of at least 6.0 each semester
- meet the requirements of program completion (for example work experience and work integrated learning)
- pay any costs associated with their program that aren't covered by the scholarship, including additional and repeated units
- demonstrate adequate participation in extracurricular elements of the program.

Students can:

- apply to change their course structure under exceptional circumstances. Students must apply through their academic mentor or course coordinator, and receive prior written approval from the Assistance Dean International and Engagement.
- apply [for other scholarships and bursaries](#), including ones associated with travel, as long as they are allowed to under the conditions of the other scholarship and under our [Industry sponsored student scholarships policy](#).

Financial Support prior to 2013

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.

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 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.

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.

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.

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
- INB220 Business Analysis
- INB255 Security
- INB272 Interaction Design

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

Domestic 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.

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.

Bachelor of Corporate Systems Management - Dean's Scholars Program

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

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.

Sample Structure

Refer to the [IT06 course structure](#).

Code	Title
Course Notes	

Handbook

Year	2015
QUT code	IT23
CRICOS	012656E
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	12
Rank	75
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	288
Start months	February, July
Int. Start Months	February, July This course is available to international students who are eligible for a year or more of Advanced Standing (Credit).
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Mr Mike Roggenkamp; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

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 Update

As of 2014, this course will only be available for IT23 continuing students and those students who are commencing in 2014 with approved advanced standing of 60cp or more towards core units. New students should refer to [IN01 Bachelor of Information Technology](#).

For further assistance, please contact sef.enquiry@qut.edu.au.

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.

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 developing 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 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 [CEEED 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.

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

Domestic Course structure The Bachelor of Information Technology has been redesigned for 2014 to the specifications of the Australian Qualifications Framework and to align with current industry requirements. The changes for 2014 include:

- New course code and award – Bachelor of Information Technology (Study Area A)
- Majors : Information Systems and Computer Science
- **The new course information will be uploaded to this site shortly.**

Design your own degree This information applies to continuing students and those on pathway courses

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

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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.

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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 Course Updates

This structure is for students who are admitted to IT23 commencing 2014 or for those students who have not yet completed their 1st year Core units.

From 2014, first year core units in IT23 Bachelor of Information Technology have been recoded, renamed or discontinued. To see how these changes affect you, please consult the Information Technology unit replacement table below in conjunction with the course structure. Affected Study Plans are being amended to reflect the changes.

Please contact the Faculty if you have any concerns.

[Information Technology Unit Replacement Table](#) ►

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](#)

Code	Title
Year 1, Semester 1	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
IFB103	Designing for IT
IFB104	Building IT Systems
[Note: INB101 - INB104 have been replaced with new units IFB101-104 from Semester 1 2014 onwards]	
Year 1, Semester 2	
IT Breadth Option Unit	
IT Breadth Option Unit	
IT Breadth Option Unit	
Complementary Studies Unit	
Year 2, Semester 1	
IFB299	Application Design and Development
[INB201 replaced by IFB299 in 2015 and is offered in Semester 2 only.]	
[NOTE: INB201/IFB299 can only be taken after you have completed a minimum of 36 credit points of breadth units.]	
IT Breadth Option Unit	
IT Specialisation Option Unit	
Complementary Studies Unit	

Bachelor of Information Technology

Year 2, Semester 2

IT Specialisation Option Unit

Complementary Studies Unit

Complementary Studies Unit

Complementary Studies Unit

Year 3, Semester 1

INB300	Professional Practice in IT
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IAB202	Business of Information Technology
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[INB301 replaced by IAB202 in 2016.]

[NOTE: INB300 and INB301/IAB202 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

INB302	IT Capstone Project
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[NOTE: INB301/IAB202 must be completed before enrolling in INB302.]

IT Specialisation Option Unit

Complementary Studies Unit

Complementary Studies Unit

Handbook

Year	2015
QUT code	IT23
CRICOS	012656E
Duration (full-time)	3 years
OP	1
Rank	99
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	
Start months	February Fixed closing date: The online questionnaire must be submitted by 16 November 2012
Int. Start Months	February Fixed closing date: The online questionnaire must be submitted by 16 November 2012
Course Coordinator	Mr Richard Thomas; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements 2013 questionnaires have closed

Questionnaires for the 2013 intake were due to completed on the 16 November 2012 and are now closed. If you had not submitted the questionnaire and you are considering applying to study in 2014 we recommend you read the following information as a guide only as it details requirements for entry in 2013 and these may change prior to the 2014 intake. You may also wish to consider applying for the standard entry program for 2013 entry.

Prerequisites

1. Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia.
2. Successful questionnaire

Additional entry requirements

In addition to applying through QTAC and you must also submit the [online Science and Engineering Dean's Scholars questionnaire](#) by the closing date.

Please note submitting the questionnaire with QUT is separate and in addition to listing the course as a preference with [QTAC](#). To successfully apply for entry into this course you are required to do both.

Closing date

Submit the [online questionnaire](#) with QUT by Friday, 16 November 2012.

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

Prerequisite

1. Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia.
2. Successful questionnaire

Closing date

Submit the questionnaire with QUT by Friday, 16 November 2012.

Additional Entry Requirements

In addition to applying through [QTAC](#) and you must also submit the online Science and Engineering Dean's Scholars questionnaire (available August) by the closing date.

Please Note: Submitting the questionnaire with QUT is separate and in addition to listing the course as a preference with [QTAC](#). To successfully apply for entry into this course you are required to do both.

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

Please Note

As of 2013, all new Dean's Scholar applicants will be admitted into the standard Bachelor programs, with no accelerated studies and no pre-approved articulation to Honours degrees.

As of 2014, there will not be a separate QTAC entry point for the Science and Engineering Dean's Scholar Programs whilst the scholarship undergoes a further review.

Eligibility Criteria

Applicants must:

- have completed Year 12 in the year they apply for the program, or the previous year
- have received an OP 1 (or equivalent)
- be starting university for the first time
- demonstrate leadership experience and potential
- demonstrate community participation and engagement
- apply for and gain a place in the relevant Dean's Scholars Program

If studying at QUT International College (QUTIC), applicant must have a grade point average (GPA) of at least 6.5 for the two semesters immediately before they apply for the Dean's Scholars Program.

If expecting to get an OP of 1-3, applicant should apply for consideration.

Financial Support as of 2013.

Successful applicants will receive:

- A scholarship of up to \$6,000 per annum, usually payable in 2 instalments of \$3,000 by the 2nd week of semester 1 and semester 2 of each year. The scholarship would apply for the full-time duration of the undergraduate degree, contingent upon students meeting the conditions of the program (refer to Conditions below). The total value of the scholarship is limited to \$18,000 for the 3 year programs and \$24,000 for the 4 year programs.

Conditions as of 2013.

To keep a place in the Dean's Scholars program, students must:

- maintain enrolment full-time in the eligible undergraduate course
- graduate from the Bachelor of Information Technology within 3 years of starting, except where you've taken a leave of absence approved by the Assistant Dean, or there are other extenuating

Bachelor of Information Technology - Dean's Scholars Program

circumstances

- maintain a grade point average (GPA) of at least 6.0 each semester
- meet the requirements of program completion (for example work experience and work integrated learning)
- pay any costs associated with their program that aren't covered by the scholarship, including additional and repeated units
- demonstrate adequate participation in extracurricular elements of the program.

Students can:

- apply to change their course structure under exceptional circumstances. Students must apply through their academic mentor or course coordinator, and receive prior written approval from the Assistance Dean International and Engagement.

- apply [for other scholarships and bursaries](#), including ones associated with travel, as long as they are allowed to under the conditions of the other scholarship and under our [Industry sponsored student scholarships policy](#).

Financial support prior to 2013

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

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 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.

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.

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.

Sample Structure

Code	Title
Course Notes	
Refer to IT23 course structure.	

Handbook

Year	2015
QUT code	MA54
CRICOS	049433D
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	7
Rank	87
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,400 per Study Period (48 credit points)
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 Tim Moroney; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline 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: 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.

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 2014, this course will only be available for MA54 continuing students and those students who are commencing in 2014 with approved advanced standing of 60cp or more towards core units. New students should refer to [MS01 Bachelor of Mathematics](#).

For further assistance, please contact sef.enquiry@qut.edu.au.

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.

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
- 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.

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

Course Updates

A number of changes have been made to Science and Engineering Faculty courses. From 2014, units in MA54 Bachelor of Mathematics will progressively be recoded, renamed or discontinued. To see how these changes affect you, please consult the Mathematics unit replacement table below in conjunction with the course structure. Affected Study Plans are being amended to reflect the changes. Please contact the Faculty if you have any concerns.

[Mathematics Unit Replacement Table](#) ►

Semesters

- [Level 1 Mathematics Units](#)
- [Level 2 and 3 Mathematics Units](#)
- [Other Units - Complementary Studies](#)

Code	Title
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
OR select Level 2 or 3 Mathematical unit option (MAB101 alternate as of 2013)	
MXB100	Introductory Calculus and Algebra
[MAB120 is replaced by MXB100 from 2014]	
MXB105	Calculus of One and Two Variables
[MAB121 is replaced by MXB105 from 2014]	
MXB106	Linear Algebra and Differential Equations
[MAB122 is replaced by MXB106 from 2014]	
MXB101	Probability and Stochastic Modelling 1
[MAB210 is replaced by MXB101 from 2014]	
MXB103	Introductory Computational Mathematics
[MAB220 is replaced by MXB103 from 2014]	
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:	
MXB202	Advanced Calculus
[MAB311 is replaced by MXB202 from 2015]	
MXB201	Advanced Linear Algebra
[MAB312 is replaced by MXB201 from 2015]	
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.	

Handbook

Year	2015
QUT code	MS01
CRICOS	049433D
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	6
Rank	89
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,000 per Study Period (48 credit points)
Total credit points	288
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 Tim Moroney; ph: +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 (4, SA). Recommended Study: 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

Course Overview

The Bachelor of Mathematics course provides a modern and rigorous training in mathematics to prepare students both for graduate careers in industry and government as well as for honours and postgraduate research work. This course provides students with a mathematics degree that clearly defines paths of study associated with different graduate outcomes in order to meet the wide range of employment possibilities open to mathematics graduates. As well as this, it maintains for students the option to complete a degree that is heavily mathematical through the inclusion of second major and minor options in mathematics and statistics.

The course combines underlying theory with modelling, computational skills and the latest computer technology to enable students to solve real-world problems and prepare them for their future career. Skill development in communication, problem solving, critical thinking and teamwork form an integral part of this course.

Course Design

Your QUT Bachelor of Mathematics degree consists of 288 credit points (24 units) arranged as follows:

(a) 72 credit points (6 units) of Core units, which are further divided into 48 credit points (4 units) of Mathematics Core units, and 24 credit points (2 units) of Core Option units selected from an approved list.

(b) 120 credit points (10 units) of Major Core units, comprising from a choice of one (1) Major in either:

- Applied and Computational Mathematics;
- Decision Science; or
- Statistical Science.

(c)

96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors

(4 unit set each).

Professional Recognition

Professional recognition can be found in the individual majors of the Bachelor of Mathematics (MS01).

Pathways to Further Study

The QUT Bachelor of Mathematics is located at Level 7 of the Australian Qualifications Framework (AQF). Eligible graduates may continue their studies in this discipline with an additional honours year in [\(MS10\) Bachelor of Mathematics \(Honours\)](#).

Handbook

Year	2015
QUT code	MS01
CRICOS	049433D
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	6
Rank	89
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,000 per Study Period (48 credit points)
Total credit points	288
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 Tim Moroney; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Qianqian Yang +61 7 3138 8822 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 (4, SA). Recommended Study: 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

Overview

The Applied and Computational Mathematics major provides high quality learning for students who want to combine their studies in mathematics with considerable involvement in real-world applications and computational simulations. The major introduces you to a wide range of concepts in mathematical foundations, modelling and computational methods, and provides strong links between theory and application. You will investigate underlying mathematical theory to see how it can be applied to real-world scenarios from many fields of study including the physical and chemical sciences, biology, engineering and the social sciences. You will also develop computational solution and simulation methods to couple with modelling skills in order to investigate large-scale applied problems.

Course Design

Your QUT Bachelor of Mathematics degree consists of 288 credit points (24 units) arranged as follows:

- (a) 72 credit points (6 units) of Core units, which are further divided into 48 credit points (4 units) of Mathematics Core units, and 24 credit points (2 units) of Core Option units selected from an approved list.
- (b) 120 credit points (10 units) of Major Core units
- (c) 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Mathematics Core Units

These units give you the grounding in mathematical theory and practice upon which your major units will build, and also provide an introductory taste of each of the three majors: applied and computational mathematics; decision science; and statistical science.

Core Option Units List

You may choose from a wide variety of introductory units from other disciplines offered at QUT, or you may choose additional mathematics units. The additional mathematics units include a unit specially designed to assist students without a background of successful study in Mathematics C at high school; an alternative unit aimed at high achieving students that explores some interesting and unusual aspects of mathematics in some detail; and a unit introducing the field of computational and simulation science which combines mathematics, science and computing to simulate real-world problems.

Major Units

Your major is your area of specialisation, in which you will acquire in-depth knowledge and expertise, preparing you for your entry into the workforce or for further study. All majors share the same introductory and advanced units in algebra and calculus, meaning you do not need to decide on your major upfront.

Complementary Studies

Applied and Computational Mathematics Major students may elect to undertake a Second Major (8 unit set) or two Minors (4 unit set each)

Second Major:

A choice of one second major from:

- Decision Science
- Statistical Science
- Computational and Simulation Science
- Accountancy
- Applied Economics and Finance
- Logistics Management
- Biological Sciences
- Chemistry
- Earth Science
- Environmental Science
- Physics

Minors:

A choice of two minors from:

- Decision Science
- Statistical Science
- Discrete Mathematics
- Computational and Simulation Science
- Biological Sciences
- Chemistry
- Earth Science
- Environmental Science
- Physics
- International exchange

- [University Wide Minors](#)

Career Outcomes

As a graduate of the Bachelor of Mathematics (Applied and Computational Mathematics) you will find employment opportunities across a wide range of areas, such as finance, investment, information technology, environmental management, health, marketing, logistics, defence, medicine, education and research. In addition to your knowledge and abilities in mathematics, you will also be highly valued for your analytical and problem-solving skills.

Professional Recognition

Graduates are eligible for membership in the Australian Mathematical Society (AMS), and ANZIAM.

Domestic Course structure Course Design

Your QUT Bachelor of Mathematics degree consists of 288 credit points (24 units) arranged as follows:

- 72 credit points (6 units) of Core units, which are further divided into 48 credit points (4 units) of Mathematics Core units, and 24 credit points (2 units) of Core Option units selected from an approved list.
- 120 credit points (10 units) of Major units.
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Mathematics core units

These units give you the grounding in mathematical theory and practice upon which your major units will build, and also provide an introductory taste of each of the three majors: applied and computational mathematics; decision science; and statistical science.

Core option units

You may choose from a wide variety of introductory units from other disciplines offered at QUT, or you may choose additional mathematics units. The additional mathematics units include a unit specially designed to assist students without a background of successful study in Mathematics C at high school; an alternative unit aimed at high achieving students that explores some interesting and unusual aspects of mathematics in some detail; and a unit introducing the field of computational and simulation science which combines mathematics, science and computing to simulate real-world problems.

Major units

Your major is your area of specialisation, in which you will acquire in-depth knowledge and expertise, preparing you for your entry into the workforce or for further study. All majors share the same introductory and advanced units in algebra and calculus, meaning you do not need to decide on your major until your second year of study.

Second major or minors

You may choose to undertake a second major: an 8 unit set in which you will acquire a significant depth of knowledge and expertise in an area to complement your major. You may choose a second major in applied and computational mathematics, decision science, statistical science, computational and simulation science, accountancy, applied economics and finance, logistics management, physics, chemistry, biological science, earth science or environmental science.

Alternatively you may choose to undertake two minors: 4 unit sets with intermediate to advanced level content which extend or supplement studies in your major. Minors are available from a range of inter- and intra-faculty disciplines, as well as experiential minors such as international exchange.

International Course structure Course Design

Your QUT Bachelor of Mathematics degree consists of 288 credit points (24 units) arranged as follows:

- 72 credit points (6 units) of Core units, which are further divided into 48 credit points (4 units) of Mathematics Core units, and 24 credit points (2 units) of Core Option units selected from an approved list.
- 120 credit points (10 units) of Major units.
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Mathematics Core Units

These units give you the grounding in mathematical theory and practice upon which your major units will build, and also provide an introductory taste of each of the three majors: applied and computational mathematics; decision science; and statistical science.

Core Option Units

You may choose from a wide variety of introductory units from other disciplines offered at QUT, or you may choose additional mathematics units. The additional mathematics units include a unit specially designed to assist students without a background of successful study in Mathematics C at high school; an alternative unit aimed at high achieving students that explores some interesting and unusual aspects of mathematics in some detail; and a unit introducing the field of computational and simulation science which combines mathematics, science and computing to simulate real-world problems.

Major Units

Your major is your area of specialisation, in which you will acquire in-depth knowledge and expertise, preparing you for your entry into the workforce or for further study. All majors share the same introductory and advanced units in algebra and calculus, meaning you do not need to decide on your major until your second year of study.

Second Major or Minors

You may choose to undertake a second major: an 8 unit set in which you will acquire a significant depth of knowledge and expertise in an area to complement your major. You may choose a second major in applied and computational mathematics, decision science, statistical science, computational and simulation science, accountancy, applied economics and finance, logistics management, physics, chemistry, biological science, earth science or environmental science.

Alternatively you may choose to undertake two minors: 4 unit sets with intermediate to advanced level content which extend or supplement studies in your major. Minors are available from a range of inter- and intra-faculty disciplines, as well as experiential minors such as international exchange.

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](#)
- [NOTE:](#)

Code	Title
Year 1, Semester 1	
MXB101	Probability and Stochastic Modelling 1
MXB102	Abstract Mathematical Reasoning

MXB103	Introductory Computational Mathematics
Core Unit Option*	
Year 1, Semester 2	
MXB105	Calculus of One and Two Variables
MXB106	Linear Algebra and Differential Equations
MXB107	Statistical Models for Data: Relationships and Effects
Core Unit Option*	
Year 2, Semester 1	
MXB201	Advanced Linear Algebra
MXB221	Ordinary Differential Equations
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 2, Semester 2	
MXB202	Advanced Calculus
MXB222	Computational Linear Algebra
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 1	
MXB321	Applied Transport Theory
MXB322	Partial Differential Equations
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 2	
MXB323	Dynamical Systems
MXB324	Computational Fluid Dynamics
2nd Major/Minor unit	
2nd Major/Minor unit	
NOTE:	
*Core Unit Options may be taken in any semester - depending on choice of Options/ 2nd Major/ Minors	

Handbook

Year	2015
QUT code	MS01
CRICOS	049433D
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	6
Rank	89
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,000 per Study Period (48 credit points)
Total credit points	288
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 Tim Moroney; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Kai Becker +61 7 3138 8822 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 (4, SA). Recommended Study: 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

Overview

Decision science is a mathematical discipline that considers how to make appropriate and better decisions in complex decision-making problems. It deals with how best to design, operate and/or predict behaviour of complex systems like people, machinery, materials and money in industry, business, finance, education, government and defence. The Decision Science major encompasses the study of quantitative techniques relevant to decision-making in its broadest sense. You will employ a problem-solving approach, using advanced analytical methods such as operations research, financial mathematics, stochastic and mathematical modelling, and mathematical optimisation. Along the way you will also use a variety of software and improve your information technology skills. Because of its emphasis on human-technology interaction and its focus on practical applications, Decision Science overlaps with other disciplines, notably industrial engineering and operations management, economics and finance. This is a multi-disciplinary field.

The coursework also introduces you to different industries and processes that greatly contribute to the economy and environment of nations around the world. These include manufacturing and production, management, health care, finance and economics, goods and services, infrastructure, transportation and logistics, mining, defence, etc. This study area provides a foundation for a variety of careers, and further study.

There is a strong emphasis on:

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](#)
- [NOTE:](#)

Code	Title
Year 1, Semester 1	
MXB101	Probability and Stochastic Modelling 1
MXB102	Abstract Mathematical

	Reasoning
MXB103	Introductory Computational Mathematics
Core Unit Option*	
Year 1, Semester 2	
MXB105	Calculus of One and Two Variables
MXB106	Linear Algebra and Differential Equations
MXB107	Statistical Models for Data: Relationships and Effects
Core Unit Option*	
Year 2, Semester 1	
MXB201	Advanced Linear Algebra
MXB231	Financial Mathematics 1
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 2, Semester 2	
MXB202	Advanced Calculus
MXB232	Operations Research 1
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 1	
MXB331	Financial Mathematics 2
MXB332	Operations Research 2
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 2	
MXB333	Financial Data Analysis and Forecasting
MXB334	Operations Research 3
2nd Major/Minor unit	
2nd Major/Minor unit	
NOTE:	
*Core Unit Options may be taken in any semester - depending on choice of Options/ 2nd Major/ Minors	

Handbook

Year	2015
QUT code	MS01
CRICOS	049433D
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	6
Rank	89
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,000 per Study Period (48 credit points)
Total credit points	288
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 Tim Moroney; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Chris Drovandi +61 7 3138 8822 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 (4, SA). Recommended Study: 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

Overview

The Statistical Science major will provide you with the methodology for analysing data using empirical, theoretical and computational tools. You will discover complex statistical techniques and concepts through applications and datasets from the real world, providing strong links between theory and application. Many of our academics are world leaders in research and have strong industry ties that ensure the relevance of teaching material and high-quality learning experiences. The major will provide you with a fundamental and thorough understanding of statistics and statistical methodology, and the ability to apply such quantitative skills in real-world scenarios. Thus we aim to prepare you for a career in industry, government and/or research.

Course Design

Your QUT Bachelor of Mathematics degree consists of 288 credit points (24 units) arranged as follows:

- (a) 72 credit points (6 units) of Core units, which are further divided into 48 credit points (4 units) of Mathematics Core units, and 24 credit points (2 units) of Core Option units selected from an approved list.
- (b) 120 credit points (10 units) of Major Core units
- (c) 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Mathematics Core Units

These units give you the grounding in mathematical theory and practice upon which your major units will build, and also provide an introductory taste of each of the three majors: applied and computational mathematics; decision science; and statistical science.

Core Option Units List

You may choose from a wide variety of introductory units from other disciplines offered at QUT, or you may choose additional mathematics units. The additional mathematics units include a unit specially designed to assist students without a background of successful study in Mathematics C at high school; an alternative unit aimed at high achieving students that explores some interesting and unusual aspects of mathematics in some detail; and a unit introducing the field of computational and simulation science which combines mathematics, science and computing to simulate real-world problems.

Major Units

Your major is your area of specialisation, in which you will acquire in-depth knowledge and expertise, preparing you for your entry into the workforce or for further study. All majors share the same introductory and advanced units in algebra and calculus, meaning you do not need to decide on your major upfront.

Complementary Studies

Statistical Science Major students may elect to undertake a Second Major (8 unit set) or two Minors (4 unit set each)

Second Major:

A choice of one second major from:

- Applied and Computational Mathematics
- Decision Science
- Accountancy
- Applied Economics and Finance
- Logistics Management
- Biological Sciences
- Chemistry
- Earth Science
- Environmental Science
- Physics

Minors:

A choice of two minors from:

- Applied and Computational Mathematics
- Decision Science
- Discrete Mathematics
- Computational and Simulation Science
- Biological Sciences
- Chemistry
- Earth Science
- Environmental Science
- Physics
- International exchange
- [University Wide Minors](#)

Career Outcomes

Career outcomes for graduates of the Bachelor of Mathematics (Statistical Science) include data analyst, quantitative analyst, researcher, risk analyst, and statistician. Positions of this nature are often found with employers such as the Australian Bureau of Statistics, Queensland Treasury, state and Commonwealth governments, financial institutions, CSIRO, insurance companies, medical companies.

Professional Recognition

Graduates are eligible for membership in the Statistical Society of Australia

Domestic Course structure

Course Design

Your QUT Bachelor of Mathematics degree consists of 288 credit points (24 units) arranged as follows:

- 72 credit points (6 units) of Core units, which are further divided into 48 credit points (4 units) of Mathematics Core units, and 24 credit points (2 units) of Core Option units selected from an approved list.
- 120 credit points (10 units) of Major units.
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Mathematics core units

These units give you the grounding in mathematical theory and practice upon which your major units will build, and also provide an introductory taste of each of the three majors: applied and computational mathematics; decision science; and statistical science.

Core option units

You may choose from a wide variety of introductory units from other disciplines offered at QUT, or you may choose additional mathematics units. The additional mathematics units include a unit specially designed to assist students without a background of successful study in Mathematics C at high school; an alternative unit aimed at high achieving students that explores some interesting and unusual aspects of mathematics in some detail; and a unit introducing the field of computational and simulation science which combines mathematics, science and computing to simulate real-world problems.

Major units

Your major is your area of specialisation, in which you will acquire in-depth knowledge and expertise, preparing you for your entry into the workforce or for further study. All majors share the same introductory and advanced units in algebra and calculus, meaning you do not need to decide on your major until your second year of study.

Second major or minors

You may choose to undertake a second major: an 8 unit set in which you will acquire a significant depth of knowledge and expertise in an area to complement your major. You may choose a second major in applied and computational mathematics, decision science, statistical science, computational and simulation science, accountancy, applied economics and finance, logistics management, physics, chemistry, biological science, earth science or environmental science.

Alternatively you may choose to undertake two minors: 4 unit sets with intermediate to advanced level content which extend or supplement studies in your major. Minors are available from a range of inter- and intra-faculty disciplines, as well as experiential minors such as international exchange.

International Course structure

Course Design

Your QUT Bachelor of Mathematics degree consists of 288 credit points (24 units) arranged as follows:

- 72 credit points (6 units) of Core units, which are further divided into 48 credit points (4 units) of Mathematics Core units, and 24 credit points (2 units) of Core Option units selected from an approved list.
- 120 credit points (10 units) of Major units.
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Mathematics Core Units

These units give you the grounding in mathematical theory and practice upon which your major units will build, and also provide an introductory taste of each of the three majors: applied and computational mathematics; decision science; and statistical science.

Core Option Units

You may choose from a wide variety of introductory units from other disciplines offered at QUT, or you may choose additional mathematics units. The additional mathematics units include a unit specially designed to assist students without a background of successful study in Mathematics C at high school; an alternative unit aimed at high achieving students that explores some interesting and unusual aspects of mathematics in some detail; and a unit introducing the field of computational and simulation science which combines mathematics, science and computing to simulate real-world problems.

Major Units

Your major is your area of specialisation, in which you will acquire in-depth knowledge and expertise, preparing you for your entry into the workforce or for further study. All majors share the same introductory and advanced units in algebra and calculus, meaning you do not need to decide on your major until your second year of study.

Second Major or Minors

You may choose to undertake a second major: an 8 unit set in which you will acquire a significant depth of knowledge and expertise in an area to complement your major. You may choose a second major in applied and computational mathematics, decision science, statistical science, computational and simulation science, accountancy, applied economics and finance, logistics management, physics, chemistry, biological science, earth science or environmental science.

Alternatively you may choose to undertake two minors: 4 unit sets with intermediate to advanced level content which extend or supplement studies in your major. Minors are available from a range of inter- and intra-faculty disciplines, as well as experiential minors such as international exchange.

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](#)
- [NOTE:](#)

Code	Title
Year 1, Semester 1	
MXB101	Probability and Stochastic Modelling 1
MXB102	Abstract Mathematical Reasoning
MXB103	Introductory Computational Mathematics
Core Unit Option*	

Year 1, Semester 2	
MXB105	Calculus of One and Two Variables
MXB106	Linear Algebra and Differential Equations
MXB107	Statistical Models for Data: Relationships and Effects
Core Unit Option*	
Year 2, Semester 1	
MXB201	Advanced Linear Algebra
MXB241	Probability and Stochastic Modelling 2
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 2, Semester 2	
MXB202	Advanced Calculus
MXB242	Regression and Design
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 1	
MXB341	Statistical Inference
MXB342	Statistical Techniques
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 2	
MXB343	Modelling Dependent Data
MXB344	Modelling Non-Normal Data with Generalised Linear Models
2nd Major/Minor unit	
2nd Major/Minor unit	
NOTE:	

*Core Unit Options may be taken in any semester - depending on choice of Options/ 2nd Major/ Minors

Handbook

Year	2015
QUT code	SC01
CRICOS	003502J
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
Rank	72
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
Total credit points	288
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July This course has been replaced by ST01 Bachelor of Science. However if you are offered a second or third year place you will be admitted to this course instead as only the first year of ST01 Bachelor of Science will be offered in 2013.
Int. Start Months	February, July Conditions apply for July entry.
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Dr Marion Bateson; ph: +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)). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or 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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

IMPORTANT NOTICE

This course is only available for continuing students in Bachelor of Applied Science and for 2013 commencing students meeting 96cp Science Advanced Standing 1st year units. New students should refer to [ST01 Bachelor of Science](#). Please contact sef.enquiry@qut.edu.au for any enquiries.

Forensic Science: Is currently under review. Students wishing to select and enrol into the Forensic Science major will need to discuss this first with the Course Coordinator [Dr Marion Bateson](#).

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:

Handbook

Year	2015
QUT code	SC01
CRICOS	003502J
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
Rank	72
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
Total credit points	288
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July This course has been replaced by ST01 Bachelor of Science. However if you are offered a second or third year place you will be admitted to this course instead as only the first year of ST01 Bachelor of Science will be offered in 2013.
Int. Start Months	February, July Conditions apply for July entry
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Dr Marion Bateson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Perry Hartfield +61 7 3138 2984 (Alternate phone: +61 7 3138 8822) p.hartfield@qut.edu.au (Alternate 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)). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or Maths C.

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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

IMPORTANT NOTICE

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.

Sample Structure Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2 \(Life Sciences Pre-Major Strand\)](#)
- [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:](#)

Code	Title
Year 1, Semester 1	
SC01	Selective*
[*See "Science Selective Units" options on e-Student or refer to list at the bottom of the page.]	
[SCB110 is replaced by SC01 Selective in 2013.]	
CVB101	General Chemistry

Bachelor of Applied Science (Biochemistry)

[SCB111 is replaced by CVB101 after Semester 1 2013.]	
LQB182	Cell and Molecular Biology
[SCB112 is replaced by LQB182 in 2013.]	
Select ONE unit from:	
MAB141	Mathematics and Statistics for Medical Science
MZB101	Modelling with Introductory Calculus
MXB100	Introductory Calculus and Algebra
MAB121	Single Variable Calculus and Differential Equations
[MAB121 is discontinued from 2014. Please consult the Course Coordinator for replacement unit.]	
1. Students without a Sound Achievement (4 semesters) in Maths A should enrol in MZB101.	
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB141.	
3. Students with a Sound Achievement in Maths C and wishing to major in Physics should consult with the Course Coordinator for a replacement unit.	
4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MXB100.	
5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.	
[Options MAB101/MAB105/MAB120/MAB121 replaced by options MAB141/MZB101/MXB100/consult with course coordinator in 2014.]	
Year 1, Semester 2 (Life Sciences Pre-Major Strand)	
LSB258	Principles of Human Physiology
OR	
LSB142	Human Anatomy and Physiology
[Please note LSB142 is only offered in semester 1.]	
[SCB120 is replaced by LSB258 or LSB142 in 2013.]	
CVB102	Chemical Structure and Reactivity
[SCB121 is replaced by CVB102 after Semester 1 2013.]	
LQB281	Human Health & Disease Concepts
[Students who have already completed SCB112, must do LQB182 instead of LQB281.]	
[SCB122 is replaced by LQB281 or LQB182 in 2013.]	
PCB150	Biomedical Physics
[SCB123 is replaced by PCB150 in 2013.]	
Year 2, Semester 1	
LQB381	Biochemistry
LQB385	Molecular Biology and Bioinformatics
[LQB483 is replaced by LQB385 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 2 Semester 2 *	
LQB481	Biochemical Pathways and Metabolism
LQB485	Cell Biology
[LQB383 is replaced by LQB485 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 1 *	
LQB581	Functional Biochemistry
LQB582	Biomedical Research Technologies
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 2 *	

LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering
Plus TWO other units selected according to the second major requirements	
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.	

Handbook

Year	2015
QUT code	SC01
CRICOS	003502J
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
Rank	72
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
Total credit points	288
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July This course has been replaced by ST01 Bachelor of Science. However if you are offered a second or third year place you will be admitted to this course instead as only the first year of ST01 Bachelor of Science will be offered in 2013.
Int. Start Months	February, July Conditions apply for July entry
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Dr Marion Bateson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Marion Bateson +61 7 3138 1269 (Alternate phone: +61 7 3138 8822) m.bateson@qut.edu.au (Alternate 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)). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or Maths C.

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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

IMPORTANT NOTICE

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-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

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-based learning, and you will undertake a mix of independent activities and group work.

Sample Structure Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2 \(Life Sciences Pre-Major Strand\)](#)
- [Year 2, Semester 1](#)

Bachelor of Applied Science (Biotechnology)

- [Year 2, Semester 2 *](#)
- [Year 3, Semester 1 *](#)
- [Year 3, Semester 2 *](#)
- [Recommended Second Majors:](#)
- [* Elective Unit for all Majors except Forensic Science:](#)

Code	Title
Year 1, Semester 1	
SC01 Selective*	
[*See "Science Selective Units" options on e-Student or refer to list at the bottom of the page.]	
[SCB110 is replaced by SC01 Selective in 2013.]	
CVB101	General Chemistry
[SCB111 is replaced by CVB101 after Semester 1 2013.]	
LQB182	Cell and Molecular Biology
[SCB112 is replaced by LQB182 in 2013.]	
Select ONE unit from:	
MAB141	Mathematics and Statistics for Medical Science
MZB101	Modelling with Introductory Calculus
MXB100	Introductory Calculus and Algebra
MAB121	Single Variable Calculus and Differential Equations
[MAB121 is discontinued from 2014. Please consult the Course Coordinator for a replacement unit.]	
1. Students without a Sound Achievement (4 semesters) in Maths A should enrol in MZB101.	
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB141.	
3. Students with a Sound Achievement in Maths C and wishing to major in Physics should consult with the Course Coordinator for a replacement unit.	
4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MXB100.	
5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.	
[Options MAB101/MAB105/MAB120/MAB121 replaced by options MAB141/MZB101/MXB100/consult with course coordinator in 2014.]	
Year 1, Semester 2 (Life Sciences Pre-Major Strand)	
LSB258	Principles of Human Physiology
OR	
LSB142	Human Anatomy and Physiology
[Please note LSB142 is only offered in semester 1.]	
[SCB120 is replaced by LSB258 or LSB142 in 2013.]	
CVB102	Chemical Structure and Reactivity
[SCB121 is replaced by CVB102 after Semester 1 2013.]	
LQB281	Human Health & Disease Concepts
[Students who have already completed SCB112, must do LQB182 instead of LQB281.]	
[SCB122 is replaced by LQB281 or LQB182 in 2013.]	
PCB150	Biomedical Physics
[SCB123 is replaced by PCB150 in 2013.]	
Year 2, Semester 1	
LQB381	Biochemistry
LQB385	Molecular Biology and Bioinformatics
[LQB483 is replaced by LQB385 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 2, Semester 2 *	

LQB481	Biochemical Pathways and Metabolism
[LQB484 is replaced by LQB481 in 2014.]	
LQB485	Cell Biology
[LQB383 is replaced by LQB485 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 1 *	
Select TWO units from:	
LQB583	Molecular Systems Biology
LQB595	Cellular Engineering
[LQB584 is replaced by LQB595 in 2015.]	
BVB317	Principles of Biotechnology
[LQB585 is replaced by BVB317 in 2015.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 2 *	
Select TWO units from:	
LQB601	Cancer Biology
LQB682	Protein Biochemistry and Bioengineering
LQB684	Medical Biotechnology
BVB328	Applications in Biotechnology
[LQB685 is replaced by BVB328 in 2015.]	
Plus TWO other units selected according to the second major requirements	
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.	

Handbook

Year	2015
QUT code	SC01
CRICOS	003502J
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
Rank	72
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
Total credit points	288
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July This course has been replaced by ST01 Bachelor of Science. However if you are offered a second or third year place you will be admitted to this course instead as only the first year of ST01 Bachelor of Science will be offered in 2013.
Int. Start Months	February, July Conditions apply for July entry
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Dr Marion Bateson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Associate Professor Eric Waclawik +61 7 3138 2579 (Alternate phone: +61 7 3138 8822) e.waclawik@qut.edu.au (Alternate email: sef.enquiry@qut.edu.au)

Domestic Entry requirements Advanced standing entry only

This course has been replaced by [ST01 Bachelor of Science](#). However if you are offered a second or third year place you will be admitted to this course instead as only the first year of ST01 Bachelor of Science will be offered in 2013.

Deferment

Whilst deferment available it is mostly likely deferred students will commence [ST01 Bachelor of Science](#) in 2014.

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 Chemistry, Physics, Biology, Earth Science or Maths C.

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

IMPORTANT NOTICE

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, food chemistry, 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.

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.

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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

Bachelor of Applied Science (Chemistry)

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.

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Sample Structure Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2 \(Chemistry Pre-Major Strand\)](#)
- [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:](#)

Code	Title
Year 1, Semester 1	
SC01	Selective*
[*See "Science Selective Units" options on e-Student or refer to list at the bottom of the page.]	
[SCB110 is replaced by SC01 Selective in 2013.]	
CVB101	General Chemistry
[SCB111 is replaced by CVB101 after Semester 1 2013.]	
LQB182	Cell and Molecular Biology
OR	
BVB101	Foundations of Biology
[BVB101 is highly recommended for Ecology major and Environmental Science major students. Please note: BVB101 is only offered in Semester 2.]	
[SCB112 is replaced by LQB182 or BVB101 in 2013.]	
Plus ONE of:	
MAB141	Mathematics and Statistics for Medical Science
MZB101	Modelling with Introductory Calculus
MXB100	Introductory Calculus and Algebra
MAB121	Single Variable Calculus and Differential Equations
[MAB121 is discontinued from 2014. Please contact the Course Coordinator for a replacement unit.]	
1. Students without a Sound Achievement (4 semesters) in Maths A should enrol in MZB101.	
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB141.	
3. Students with a Sound Achievement in Maths C and wishing to major in Physics should with the Course Coordinator for a replacement unit.	
4. Students without a Sound Achievement in Maths	

C and wishing to major in Physics should enrol in MXB100.	
5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.	
[Options MAB101/MAB105/MAB120/MAB121 replaced by options MAB141/MZB101/MXB100/consult with course coordinator in 2014.]	
Year 1, Semester 2 (Chemistry Pre-Major Strand)	
CVB102	Chemical Structure and Reactivity
[SCB121 is replaced by CVB102 after Semester 1 2013.]	
PVB102	Physics of the Very Small
[SCB123 is replaced by PVB102 in 2013.]	
SCB131	Experimental Chemistry
[SCB131 is not offered after 2013. Please consult course coordinator for an alternative.]	
Plus ONE of:	
MXB100	Introductory Calculus and Algebra
Or	
LQB182	Cell and Molecular Biology
Or	
LQB281	Human Health & Disease Concepts
Note: MXB100 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	
[Options MAB120 or SCB122 replaced by MXB100 or LQB182 or LQB281 in 2014.]	
Year 2, Semester 1	
CVB201	Inorganic Chemistry
[PQB331 is replaced by CVB201 in 2014.]	
CVB202	Analytical Chemistry
[PQB312 is replaced by CVB202 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 2, Semester 2 *	
CVB203	Physical Chemistry
[PQB401 is replaced by CVB203 in 2014.]	
CVB204	Organic Structure and Mechanisms
[PQB442 is replaced by CVB204 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 1 *	
CVB301	Organic Chemistry: Strategies for Synthesis
[PQB531 is replaced by CVB301 in 2015.]	
CVB302	Applied Physical Chemistry
[PQB502 is replaced by CVB302 in 2015.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 2 *	
CVB303	Coordination Chemistry
[PQB631 is replaced by CVB303 in 2015.]	
CVB304	Chemistry Research Project
[PQB642 is replaced by CVB304 in 2015.]	
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.

Handbook

Year	2015
QUT code	SC01
CRICOS	003502J
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
Rank	72
OP Guarantee	Yes
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
Total credit points	288
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July This course has been replaced by ST01 Bachelor of Science. However if you are offered a second or third year place you will be admitted to this course instead as only the first year of ST01 Bachelor of Science will be offered in 2013.
Int. Start Months	February, July Conditions apply for July entry
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Dr Marion Bateson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Ian Williamson +61 7 3138 2779 (Alternate phone: +61 7 3138 8822) i.williamson@qut.edu.au (Alternate 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)). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or Maths C.

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

IMPORTANT NOTICE

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 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

Bachelor of Applied Science (Ecology)

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.

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 *](#)
- [Year 3, Semester 2 *](#)
- [Recommended Second Majors:](#)
- [* Elective Unit for all Majors except Forensic Science:](#)

Code	Title
Year 1, Semester 1	
SC01	Selective*
[*See "Science Selective Units" options on e-Student or refer to list at the bottom of the page.]	
[SCB110 is replaced by SC01 Selective in 2013.]	
CVB101	General Chemistry
[SCB111 is replaced by CVB101 after Semester 1 2013.]	
BVB101	Foundations of Biology
OR	
LQB182	Cell and Molecular Biology
[BVB101 is highly recommended for Ecology major and Environmental Science major students. Please note: BVB101 is only offered in Semester 2.]	
[SCB112 is replaced by BVB101 or LQB182 in 2013.]	
Plus ONE of:	
MAB141	Mathematics and Statistics for Medical Science
MZB101	Modelling with Introductory Calculus
MXB100	Introductory Calculus and Algebra
MAB121	Single Variable Calculus and Differential Equations
[MAB121 is discontinued from 2014. Please consult Course Coordinator for a replacement unit]	
1. Students without a Sound Achievement (4 semesters) in Maths A should enrol in MZB101.	
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB141.	
3. Students with a Sound Achievement in Maths C and wishing to major in Physics should consult with the Course Coordinator for a replacement unit.	
4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MXB100.	
5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.	
[Options MAB101/MAB105/MAB120/MAB121 replaced by options MAB141/MZB101/MXB100/consult with course coordinator in 2014.]	
Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)	
ERB101	Earth Systems
[NQB201 is replaced by ERB101 in 2013.]	
BVB102	Evolution

[Students who have already completed NQB422, must do EVB102 instead of BVB102.]	
[NQB202 is replaced by BVB102 in 2013.]	
BVB214	Vertebrate Life
OR	
BVB224	Plant Diversity
[SCB120 is replaced by NQB323 or NQB423 in 2013, BVB214 or BVB224 in 2014]	
Plus ONE of:	
CVB102	Chemical Structure and Reactivity
ERB102	Evolving Earth
EVB102	Ecosystems and the Environment
PVB101	Physics of the Very Large
[Options SCB121/SCB122/SCB123 replaced by CVB102/ERB102/EVB102/PVB101 in 2013.]	
Year 2, Semester 1	
BVB202	Experimental Design and Quantitative Methods
[NQB421 is replaced by BVB202 in 2014.]	
Plus ONE of:	
BVB213	Marine and Freshwater Biology
BVB214	Vertebrate Life
BVB223	Insect Life
BVB224	Plant Diversity
ERB201	Destructive Earth
(Please note: BVB223 and BVB224 are only offered in Semester 2.)	
[Options NQB302/NQB322/NQB323 replaced by options BVB213/BVB214/BVB223/BVB224/ERB201 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 2, Semester 2 *	
BVB102	Evolution
[NQB422 is replaced by BVB102 in 2014.]	
BVB204	Ecology
[NQB321 is replaced by BVB204 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 1 *	
BVB313	Population Genetics and Molecular Ecology
[NQB521 replaced by BVB313 in 2015.]	
BVB312	Pest Management
[NQB523 replaced by BVB312 in 2015.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 2 *	
BVB311	Conservation Biology
[NQB622 replaced by BVB311 in 2015.]	
BVB321	Invasion Ecology
[NQB623 replaced by BVB321 in 2015.]	
Plus TWO other units selected according to the second major requirements	
Recommended Second Majors:	
Biodiversity, Environmental 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.	

Handbook

Year	2015
QUT code	SC01
CRICOS	003502J
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
Rank	72
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
Total credit points	288
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July This course has been replaced by ST01 Bachelor of Science. However if you are offered a second or third year place you will be admitted to this course instead as only the first year of ST01 Bachelor of Science will be offered in 2013.
Int. Start Months	February, July Conditions apply for July entry
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Dr Marion Bateson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Ian Williamson +61 7 3138 2779 (Alternate phone: +61 7 3138 8822) i.williamson@qut.edu.au (Alternate 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)). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or Maths C.

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

IMPORTANT NOTICE

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

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.

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.

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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

Bachelor of Applied Science (Environmental Science)

systems and remote sensing. Case studies and problem-solving methods are used to introduce you to a wide variety of issues in sustainable management.

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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 *](#)
- [Year 3, Semester 2 *](#)
- [Recommended Second Majors:](#)
- [* Elective Unit for all Majors except Forensic Science:](#)

Code	Title
Year 1, Semester 1	
SC01	Selective*
[*See "Science Selective Units" options on e-Student or refer to list at the bottom of the page.]	
[SCB110 is replaced by SC01 Selective in 2013.]	
CVB101	General Chemistry
[SCB111 is replaced by CVB101 after Semester 1 2013.]	
BVB101	Foundations of Biology
OR	
LQB182	Cell and Molecular Biology
[BVB101 is highly recommended for Ecology major and Environmental Science major students. Please note: BVB101 is only offered in Semester 2.]	
[SCB112 is replaced by BVB101 or LQB182 in 2013.]	
Plus ONE of:	
MAB141	Mathematics and Statistics for Medical Science
MZB101	Modelling with Introductory Calculus
MXB100	Introductory Calculus and Algebra
MAB121	Single Variable Calculus and Differential Equations
[MAB121 discontinued from 2014. Please consult Course Coordinator for a replacement unit]	
1. Students without a Sound Achievement (4 semesters) in Maths A should enrol in MZB101.	
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB141.	
3. Students with a Sound Achievement in Maths C and wishing to major in Physics should consult with the course coordinator for MAB121 replacement unit.	
4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MXB100	
5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.	
[Options MAB101/MAB105/MAB120/MAB121 replaced by options MAB141/MZB101/MXB100/consult Course Coordinator in 2014.]	
Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)	
ERB101	Earth Systems
[NQB201 is replaced by ERB101 in 2013.]	
EVB102	Ecosystems and the Environment
[NQB202 is replaced by EVB102 in 2013.]	
BVB214	Vertebrate Life
OR	

BVB224	Plant Diversity
[SCB120 is replaced by NQB323 or NQB423 in 2013, BVB214 or BVB224 in 2014]	
Plus ONE of:	
BVB102	Evolution
CVB102	Chemical Structure and Reactivity
ERB102	Evolving Earth
PVB101	Physics of the Very Large
[Options SCB121/SCB122/SCB123 replaced by BVB102/CVB102/ERB102/PVB101 in 2013.]	
Year 2, Semester 1	
BVB202	Experimental Design and Quantitative Methods
[NQB421 is replaced by BVB202 in 2014.]	
EVB201	Global Environmental Issues
[NQB302 is replaced by EVB201 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 2, Semester 2 *	
BVB204	Ecology
[NQB321 is replaced by BVB204 in 2014.]	
EVB212	Soils and the Environment
[NQB403 replaced by EVB212 in 2015. EVB212 was also changed from a SEM-1 to a SEM-2 unit in 2015. To assist with course progression in 2014, NQB403 was replaced by EVB204.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 1 *	
EVB301	Urban and Natural Environmental Systems
[NQB502 is replaced by EVB301 in 2015.]	
EVB302	Environmental Pollution
[NQB501 is replaced by EVB302 in 2015.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 2 *	
EVB304	Case Studies in Environmental Science
[NQB301 is replaced by EVB304 in 2015.]	
Select ONE of:	
ERB310	Groundwater Systems
ENB380	Environmental Law and Assessment
[NQB614/NQB623 option is replaced by ERB310/ENB380 in 2015.]	
Plus TWO other units selected according to the second major requirements	
Recommended Second Majors:	
Biodiversity, Ecology, Geoscience	
* 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.	

Handbook

Year	2015
QUT code	SC01
CRICOS	003502J
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
Rank	72
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
Total credit points	288
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July This course has been replaced by ST01 Bachelor of Science. However if you are offered a second or third year place you will be admitted to this course instead as only the first year of ST01 Bachelor of Science will be offered in 2013.
Int. Start Months	February, July Conditions apply for July entry
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Dr Marion Bateson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Emad Kiriakous +61 7 3138 8822 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)). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or Maths C.

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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

IMPORTANT NOTICE

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 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.

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 knowledge of expanded applications in advanced forensic analysis and toxicology. All theory is complemented and supplemented by focused workshops and laboratory classes.

Sample Structure Semesters

- [Note: Must be taken as a double major with Biochemistry, Biotechnology, Chemistry or Microbiology](#)

Bachelor of Applied Science (Forensic Science)

- [Year 1, Semester 1](#)
- [Year 1, Semester 2 \(Forensic Science Pre-Major Strand\)](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2 *](#)
- [Year 3, Semester 1 *](#)
- [Year 3, Semester 2 *](#)

Code	Title
Note: Must be taken as a double major with Biochemistry, Biotechnology, Chemistry or Microbiology	
Year 1, Semester 1	
SC01 Selective*	
[*See "Science Selective Units" options on e-Student or refer to list at the bottom of the page]	
[SCB110 is replaced by SC01 Selective in 2013.]	
CVB101	General Chemistry
[SCB111 is replaced by CVB101 after Semester 1 2013.]	
LQB182	Cell and Molecular Biology
[SCB112 is replaced by LQB182 in 2013.]	
Plus ONE of:	
MAB141	Mathematics and Statistics for Medical Science
MZB101	Modelling with Introductory Calculus
MXB100	Introductory Calculus and Algebra
MAB121	Single Variable Calculus and Differential Equations
[MAB121 is discontinued from 2014. Please consult the Course Coordinator for a replacement unit.]	
1. Students without a Sound Achievement (4 semesters) in Maths A should enrol in MZB101.	
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB141.	
4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MXB100.	
3. Students with a Sound Achievement in Maths C and wishing to major in Physics should consult with the Course Coordinator for replacement unit.	
5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.	
[Options MAB101/MAB105/MAB120/MAB121 replaced by options MAB141/MZB101/MXB100/consult with course coordinator in 2014.]	
Year 1, Semester 2 (Forensic Science Pre-Major Strand)	
CVB102	Chemical Structure and Reactivity
[SCB121 is replaced by CVB102 after Semester 1 2013.]	
LQB281	Human Health & Disease Concepts
[Students who have already completed SCB112, must do LQB182 instead of LQB281.]	
[SCB122 is replaced by LQB281 or LQB182 in 2013.]	
PVB102	Physics of the Very Small
[SCB123 is replaced by PVB102 in 2013.]	
SCB131	Experimental Chemistry
[SCB131 is not offered after 2013. Please consult course coordinator for an alternative.]	
Year 2, Semester 1	
CVB202	Analytical Chemistry
[PQB312 is replaced by CVB202 in 2014.]	
CVB215	Criminalistic and Physical Evidence
[SCB384 is replaced by CVB215 in 2014.]	
Plus TWO other units selected according to the second major requirements	

Year 2, Semester 2 *	
JSB174	Forensic Psychology and the Law
[JSB173 is replaced by JSB174 in 2014.]	
LQB385	Molecular Biology and Bioinformatics
OR	
LQB485	Cell Biology
[LQB383 is replaced by LQB385/LQB485 alternate in 2014. LQB385 is recommended.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 1 *	
CVB216	Forensic Chemistry
[PQB684 is replaced by CVB216 in 2014.]	
CVB320	Instrumental Analysis
[PQB513 is replaced by CVB320 in 2015.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 2 *	
CVB217	Digital Forensics
[PQB584 is replaced by CVB217 in 2014.]	
CVB225	Forensic Biology and Analytical Toxicology
[PQB680 is replaced by CVB225 in 2014.]	
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.	

Handbook

Year	2015
QUT code	SC01
CRICOS	003502J
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
Rank	72
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
Total credit points	288
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July This course has been replaced by ST01 Bachelor of Science. However if you are offered a second or third year place you will be admitted to this course instead as only the first year of ST01 Bachelor of Science will be offered in 2013.
Int. Start Months	February, July Conditions apply for July entry
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Dr Marion Bateson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Craig Sloss +61 7 3138 2610 (Alternate phone: +61 7 3138 8822) c.sloss@qut.edu.au (Alternate 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)). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or Maths C.

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

IMPORTANT NOTICE

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

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

(AusIMM), 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, 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

Bachelor of Applied Science (Geoscience)

analysis, including computer-based geographical information systems.

Sample Structure Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2 \(Geoscience Pre-Major Strand\)](#)
- [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:](#)

Code	Title
Year 1, Semester 1	
SC01	Selective*
[*See "Science Selective Units" options on e-Student or refer to list at the bottom of the page]	
[SCB110 is replaced by SC01 Selective in 2013.]	
CVB101	General Chemistry
[SCB111 is replaced by CVB101 after Semester 1 2013.]	
LQB182	Cell and Molecular Biology
OR	
BVB101	Foundations of Biology
[BVB101 is highly recommended for Ecology major and Environmental Science major students. Please note: BVB101 is only offered in Semester 2.]	
[SCB112 is replaced by BVB101 or LQB182 in 2013.]	
Plus ONE of:	
MAB141	Mathematics and Statistics for Medical Science
MZB101	Modelling with Introductory Calculus
MXB100	Introductory Calculus and Algebra
MAB121	Single Variable Calculus and Differential Equations
[MAB121 is discontinued from 2014. Please consult the Course Coordinator for a replacement unit.]	
1. Students without a Sound Achievement (4 semesters) in Maths A should enrol in MZB101.	
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB141.	
3. Students with a Sound Achievement in Maths C and wishing to major in Physics should consult with Course Coordinator for a replacement unit.	
4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MXB100.	
5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.	
[Options MAB101/MAB105/MAB120/MAB121 replaced by options MAB141/MZB101/MXB100/consult with course coordinator in 2014.]	
Year 1, Semester 2 (Geoscience Pre-Major Strand)	
ERB101	Earth Systems
[NQB201 is replaced by ERB101 in 2013.]	
ERB102	Evolving Earth
[NQB202 is replaced by ERB102 in 2013.]	
PVB101	Physics of the Very Large
[SCB123 is replaced by PVB101 in 2013.]	
SC01	Selective*
[*See "Science Selective Units" options on e-Student or refer to list at the bottom of the page]	
[SCB222 is replaced by SC01 Selective in 2013.]	

Year 2, Semester 1	
ERB202	Marine Geoscience
[NQB314 is replaced by ERB202 in 2014.]	
ERB205	Earth Materials
[NQB311 is replaced by ERB205 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 2, Semester 2 *	
ERB204	Deforming Earth
[NQB412 is replaced by ERB204 in 2014.]	
ERB206	Petrology
[NQB411 is replaced by ERB206 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 1 *	
ERB301	Chemical Earth
[NQB615 is replaced by ERB301 in 2015.]	
ERB302	Applied Geophysics
[NQB513 is replaced by ERB302 in 2015.]	
ERB305	Geological Field Methods
[NQB502 is replaced by ERB305 in 2015.]	
Plus ONE other unit selected according to the second major requirements	
Year 3, Semester 2 *	
ONE of	
ERB303	Energy Resources and Basin Analysis
ERB304	Dynamic Earth:Plate Tectonics
ERB310	Groundwater Systems
[NQB612/NQB613/NQB614 option replaced by ERB303/ERB304/ERB310 option in 2015.]	
Plus THREE other units selected according to the second major requirements	
Recommended Second Majors:	
Applied Geology, Environmental Science, Physics	
* 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.	

Handbook

Year	2015
QUT code	SC01
CRICOS	003502J
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
Rank	72
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
Total credit points	288
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July This course has been replaced by ST01 Bachelor of Science. However if you are offered a second or third year place you will be admitted to this course instead as only the first year of ST01 Bachelor of Science will be offered in 2013.
Int. Start Months	February, July Conditions apply for July entry
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Dr Marion Bateson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Christine Knox +61 7 3138 8822 c.knox@qut.edu.au (Alternate 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)). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or Maths C.

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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

IMPORTANT NOTICE

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

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.

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.

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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 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.

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.

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Sample Structure Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2 \(Life Sciences Pre-Major Strand\)](#)
- [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:](#)

Code	Title
Year 1, Semester 1	
SC01	Selective*
[*See "Science Selective Units" options on e-Student or refer to list at the bottom of the page]	
[SCB110 is replaced by SC01 Selective in 2013.]	
CVB101	General Chemistry
[SCB111 is replaced by CVB101 after Semester 1 2013.]	
LQB182	Cell and Molecular Biology
[SCB112 is replaced by LQB182 in 2013.]	
Plus ONE of:	
MAB141	Mathematics and Statistics for Medical Science
MZB101	Modelling with Introductory Calculus
MXB100	Introductory Calculus and Algebra
MAB121	Single Variable Calculus and Differential Equations
[MAB121 is discontinued from 2014. Please consult the Course Coordinator for a replacement unit.]	
1. Students without a Sound Achievement (4 semesters) in Maths A should enrol in MZB101.	
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB141.	
3. Students with a Sound Achievement in Maths C and wishing to major in Physics should consult with the Course Coordinator for a replacement unit.	
4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MXB100.	
5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.	
[Options MAB101/MAB105/MAB120/MAB121 replaced by options MAB141/MZB101/MXB100/consult with course coordinator in 2014.]	
Year 1, Semester 2 (Life Sciences Pre-Major Strand)	
LSB258	Principles of Human Physiology
OR	
LSB142	Human Anatomy and Physiology
[Please note LSB142 is only offered in semester 1.]	
[SCB120 is replaced by LSB258 or LSB142 in 2013.]	
CVB102	Chemical Structure and Reactivity
[SCB121 is replaced by CVB102 after Semester 1 2013.]	
LQB281	Human Health & Disease Concepts
[Students who have already completed SCB112, must do LQB182 instead of LQB281.]	
[SCB122 is replaced by LQB281 or LQB182 in 2013.]	
PCB150	Biomedical Physics
[SCB123 is replaced by PCB150 in 2013.]	

Year 2, Semester 1	
LQB381	Biochemistry
LQB362	Microbiology: Principles and Practice
[LQB386 is replaced by LQB362 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 2, Semester 2 *	
LQB385	Molecular Biology and Bioinformatics
OR	
LQB485	Cell Biology
(LQB483 is replaced by LQB385/LQB485 alternative in 2014.)	
(LQB385 is the recommended option.)	
LQB494	Pathogen Biology and Pathogenesis
[LQB486 is replaced by LQB494 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 1 *	
LQB594	Diagnosis and Therapeutics
[LQB586 replaced by LQB594 in 2015.]	
LQB583	Molecular Systems Biology
[LQB587 replaced by LQB583 in 2015.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 2 *	
LQB693	Perspectives in Immunology
[LQB686 replaced by LQB693 in 2015.]	
LQB694	Infectious Diseases Outbreaks
[LQB687 replaced by LQB694 in 2015.]	
Plus TWO other units selected according to the second major requirements	
Recommended Second Majors:	
Biochemistry, Biotechnology, Forensic Science, Life Science Technologies	
* 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.	

Handbook

Year	2015
QUT code	SC01
CRICOS	003502J
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
Rank	72
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
Total credit points	288
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July This course has been replaced by ST01 Bachelor of Science. However if you are offered a second or third year place you will be admitted to this course instead as only the first year of ST01 Bachelor of Science will be offered in 2013.
Int. Start Months	February, July Conditions apply for July entry
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Dr Marion Bateson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Stephen Hughes +61 7 3138 2327 (Alternate phone: +61 7 3138 8822) sw.hughes@qut.edu.au (Alternate 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)). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or Maths C.

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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

IMPORTANT NOTICE

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

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:](#)

Bachelor of Applied Science (Physics)

Code	Title
Year 1, Semester 1	
SC01 Selective*	
[*See "Science Selective Units" options on e-Student or refer to list at the bottom of the page]	
[SCB110 is replaced by SC01 Selective in 2013.]	
CVB101	General Chemistry
[SCB111 is replaced by CVB101 after Semester 1 2013.]	
LQB182	Cell and Molecular Biology
OR	
BVB101	Foundations of Biology
[BVB101 is highly recommended for Ecology major and Environmental Science major students. Please note: BVB101 is only offered in Semester 2.]	
[SCB112 is replaced by BVB101 or LQB182 in 2013.]	
Plus ONE of:	
MAB141	Mathematics and Statistics for Medical Science
MZB101	Modelling with Introductory Calculus
MXB100	Introductory Calculus and Algebra
MAB121	Single Variable Calculus and Differential Equations
[MAB121 is discontinued from 2014. Please consult the Course Coordinator for a replacement unit.]	
1. Students without a Sound Achievement (4 semesters) in Maths A should enrol in MZB101.	
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Physics should enrol in MAB141.	
3. Students with a Sound Achievement in Maths C and wishing to major in Physics should consult with the Course Coordinator for a replacement unit.	
4. Students without a Sound Achievement in Maths C and wishing to major in Physics should enrol in MXB100.	
5. Students without a Sound Achievement in Maths B or Maths A should consult with the course coordinator.	
[Options MAB101/MAB105/MAB120/MAB121 replaced by options MAB141/MZB101/MXB100/consult with course coordinator in 2014.]	
Year 1, Semester 2 (Physics Pre-Major Strand)	
MXB106	Linear Algebra and Differential Equations
[MAB122 is replaced by MXB106 in 2014.]	
PVB101	Physics of the Very Large
[PQB250 is replaced by PVB101 in 2013.]	
PVB102	Physics of the Very Small
[PQB251 is replaced by PVB102 in 2013.]	
Plus either:	
MXB105	Calculus of One and Two Variables
Or	
MXB103	Introductory Computational Mathematics
[MAB121 or MAB220 option replaced by MXB105 or MXB103 option in 2014.]	
Year 2, Semester 1	
PVB200	Computational and Mathematical Physics
[PQB350 replaced by PVB201 in 2014. Consequently, PVB201 replaced by PVB200 in 2015.]	
PVB203	Experimental Physics
[PQB450 replaced by PVB203 in 2014.]	
Plus TWO other unit selected according to the second major requirements	

Year 2, Semester 2 *	
PVB202	Mathematical Methods in Physics
OR (for those who have completed MAB122)	
MXB202	Advanced Calculus
(Students following PVBxxx progression, should do PVB202 instead of MAB311/MXB202.)	
PVB204	Electromagnetism
[PQB451 is replaced by PVB204 in 2014.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 1 *	
PVB301	Materials and Thermal Physics
[PQB551 is replaced by PVB301 in 2015.]	
PVB302	Classical and Quantum Physics
[PQB550 is replaced by PVB302 in 2015.]	
Plus TWO other units selected according to the second major requirements	
Year 3, Semester 2 *	
PVB303	Nuclear and Particle Physics
[PQB650 is replaced by PVB303 in 2015.]	
PVB304	Physics Research
[PQB651 is replaced by PVB304 in 2015.]	
Plus TWO other units selected according to the second major requirements	
Recommended Second Majors:	
Astrophysics, Mathematics	
* 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.	

Handbook

Year	2015
QUT code	ST01
CRICOS	077696D
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	13
Rank	71
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$15,300 per Study Period (48 credit points)
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 Graham Johnson; ph: +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 (4, SA). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or 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.

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 Rules

1. To fulfil the requirements for the award of the Bachelor of Science degree, you must complete a total of at least 288 credit points, comprising at least 192 credit points of science units. The units completed for the award of the degree must include:

- the first year program as outlined in the course summary
- a major study
- a second major study or two minor areas of study

Major and second major studies are defined in terms of the discipline area and the academic level at which the units are offered.

Major

A major must be completed in one of the following discipline areas: biological sciences; chemistry; earth science; environmental science; physics. A major comprises 120 credit points of units at advanced level, including at least 48 credit points at the third level.

Second Major

A second major may be completed by selecting appropriate units from another major, or from the following additional discipline areas: Human Biomolecular Science, Innovation and Entrepreneurship, Policy & Governance, Sustainable Environments for Health, Computational Science, Science Communication.

Minors and Extension Minors

Minors and Extension Minors are offered in the following disciplines:

Analytical Chemistry, Astrophysics, Cell and Molecular Biology, Human Health and Disease, Industrial Chemistry, Sustainable Environments for Health, Wildlife Biology, Marine Science, Plant Biotechnology, Genetics and Genomics, Forensic Science, Applied Ecology.

Non-Science: corporate IT systems, environmental engineering studies, ethics and human rights, foreign languages, games technology, management, marketing, music, nutrition, psychology etc.

Note: A second major comprises 96 credit points with at least 60 credit points at advanced level for the Science second majors and at least 48 credit points for the non-Science second majors. Major and second major studies may be taken in closely related discipline areas.

2. Optional (elective) units may be chosen from (a) ST01 majors/second majors other than those undertaken by a student, (b) other appropriate units offered by the Science and Engineering Faculty, and (c) units offered by other faculties.

3. Students are normally expected to complete the course in minimum time. A full-time student normally enrolls in an average of 48 credit points per semester for six semesters and a part-time student normally enrolls in 24 credit points per semester for 12 semesters. (A full-time student is one who is enrolled in 36 or more credit points per semester, whereas a part-time student is one who is enrolled in less than 36 credit points per semester.)

Notes on the Rules

1. For offerings in the Science and Engineering Faculty, the term advanced level refers to units in Schedules 2 and 3. For units offered outside the Science and Engineering Faculty, the term advanced level refers to units for which there is at least one prerequisite unit.

2. Level 2 and level 3 units are listed in Schedules 2 and 3 respectively according to their unit codes. For each unit, the major(s) and/or second major(s) in which the unit is offered are shown. It should be noted that not every advanced level unit offered in each major/second major is mandatory.

3. The major undertaken by a student will qualify the generic award title of BSc and will appear in the award title in parentheses. The general form of the award will therefore be: BSc(Major).

Domestic Course structure Your science degree

At QUT you'll create your own personal science degree program of 24 units. During your first year of study you'll get to sample a range of core science disciplines, allowing you to decide on your major later.

Faculty core and imagine science units

These six units give you an introduction to the principles of science the opportunity to learn by enquiry, and to broaden your understanding of the core sciences. You'll study two Faculty core units, two Imagine Science units and two Optional units of your choice.

From your very first semester, you will collaborate with your peers and teaching staff in QUT's exciting new learning environments. In your Imagine Science units you will explore real-world problems from multiple scientific perspectives and learn the tools of the trade. Depending on your choices, you may find yourself out in the field, working in the laboratory or learning about the impact of scientific discovery on people, policy, industry and the planet.

Working with data you have collected, you'll study how to apply fundamental methods of scientific practice, perform scientific analysis, and learn the tools to present your findings. You'll have the opportunity to explore and discover the range of career and professional outcomes available to you, so you can gain the most from your unit selection and the

Bachelor of Science

flexibility the Bachelor of Science has to offer.

Primary major

Your major is your main area of study for what you aspire to become professionally. You will receive in-depth knowledge and expertise within your chosen scientific discipline, preparing you for entry into the workforce or further study.

It comprises 10 units and there are five majors to choose from:

- biological sciences
- chemistry
- earth sciences
- environmental sciences
- physics.

Complementary study areas

This is where you make the degree your own, tailoring your studies to further match your individual career goals with a wide range of complementary study options available. You'll have the opportunity to develop sought-after professional skills, deepen your understanding of your major discipline, pursue an interest from across the university, or broaden your scientific understanding. You can even work with industry or study overseas to gain credit towards your degree.

You can choose: a Second major (eight units); or an Extended minor (four units) or Breadth minor (four units), plus either a Faculty minor (four units) or Breadth minor (four units).

Second major (eight units)

Choose a second area of study to complement your major, and develop a significant depth of knowledge and skills in two discipline areas. Experience another field, learn another academic methodology and experience interdisciplinary networking.

Choose a second Science discipline, or explore different perspectives which might include:

- computational science
- innovation
- science communication, or
- policy and governance.

Minor (four units)

You might prefer to expand the breadth and depth of your studies by adding to your chosen science major with two minors. Minors include:

Extension minor (four units)

Gain further insights and depth in your primary area of study. Intensify your chosen major to develop additional knowledge, skills and experience for your career in science.

Breadth minor (four units)

Broaden your studies to include minors from the list of science majors, second majors or from the list of University-wide minors.

Sample Structure

Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)

Code	Title
Year 1, Semester 1	
SEB104	Grand Challenges in Science
SEB113	Quantitative Methods in Science
SEB115	Experimental Science 1

SEB116	Experimental Science 2
[As of 2015, 1st year units SEB101, SEB102 and SEB114 have been replaced by SEB104, SEB115 and SEB116.]	
Year 1, Semester 2	
Major Unit	
Major Unit	
Core Unit Option	
Core Unit Option	
Year 2, Semester 1	
Major Unit	
Major Unit	
2nd major or minor unit	
2nd major or minor unit	
Year 2, Semester 2	
Major Unit	
Major Unit	
2nd major or minor unit	
2nd major or minor unit	
Year 2, Semester 1	
Major Unit	
Major Unit	
2nd major or minor unit	
2nd major or minor unit	
Year 2, Semester 2	
Major Unit	
Major Unit	
2nd major or minor unit	
2nd major or minor unit	

Handbook

Year	2015
QUT code	ST01
CRICOS	077696D
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	13
Rank	71
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$15,300 per Study Period (48 credit points)
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 Graham Johnson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Marion Bateson

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: Biology 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.

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

Biology is the study of life and living things: animals, insects, plants, and microorganisms; everything that breathes, grows and feeds us; creatures that fly through the air majestically and those that lurk in the depths of the ocean, under rocks, or even under the toilet seat.

Biologists are curious about all these things and want to know how they work, how to grow and protect them—how to get involved with life on this planet.

Biologists also love a challenge. How will we feed a population of eight billion people in 2025? Can we use biological waste to solve our energy crisis? How can we protect our plants and animals from new and fiendish exotic diseases? And how many rare species can we save from extinction?

Why choose this course?

This course will provide a strong foundation in the core biological sciences such as physiology, genetics, zoology, plant sciences and microbiology. It has been designed to be hands on, to develop problem solving skills through active learning, and to give an early appreciation of the way that many disciplines can be brought to bear on a single problem.

As well as receiving core training in the basics through the biology major, students can either add breadth to their degree by choosing a minor from a complementary discipline (e.g. chemistry), or depth to their biological skills through a specialised minor such as biotechnology.

During the course you will experience some of the most advanced laboratories in Australia and be taught by staff who are at the top of their research fields internationally. You can also expect to stay in touch with the real world, as guest lectures, site visits and opportunities for work-integrated learning bring a strong industry flavour to the degree.

Career outcomes

Biology graduates work in a wide range of jobs throughout the public and private sectors, and in a range of environments including offices, laboratories, farms, fields, factories cities and forests.

Laboratory-based careers may include laboratory management, basic research, forensic microbiology, or molecular genetics. Farm and field-based work could entail animal management, plant breeding, entomology, marine biology, or pest and disease management. Industrial work might involve biotechnology to produce food, fuel or pharmaceuticals. Other careers could involve science writing, teaching, policy development, or the commercialisation and the management of biological products and processes.

Professional recognition

Professional recognition can be achieved through membership of an appropriate scientific society, such as the Australian Society for Biochemistry and Molecular Biology, the Ecological Society of Australia, the Australian Society of Horticultural Science and many more.

Domestic Course structure

Your science degree

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Primary major

Your major is your main area of study for what you aspire to become professionally. You will receive in-depth knowledge and expertise within your chosen scientific discipline, preparing you for entry into the workforce or further study.

It comprises 10 units and there are five majors to choose from:

- biological sciences
- chemistry
- earth science
- environmental science
- physics.

Complementary study areas

This is where you make the degree your own, tailoring your studies to further match your individual career

Bachelor of Science (Biological Sciences)

goals with a wide range of complementary study options available. You'll have the opportunity to develop sought-after professional skills, deepen your understanding of your major discipline, pursue an interest from across the university, or broaden your scientific understanding. You can even work with industry or study overseas to gain credit towards your degree.

You can choose: a Second major (eight units); or an Extended minor (four units) or Breadth minor (four units), plus either a Faculty minor (four units) or Breadth minor (four units).

Second major (eight units)

Choose a second area of study to complement your major, and develop a significant depth of knowledge and skills in two discipline areas. Experience another field, learn another academic methodology and experience interdisciplinary networking.

Choose a second Science discipline, or explore different perspectives which might include:

- computational and simulation science
- innovation and entrepreneurship
- science communication, or
- policy and governance

Minor (four units)

You might prefer to expand the breadth and depth of your studies by adding to your chosen science major with two minors. Minors include:

Extension minor (four units)

Gain further insights and depth in your primary area of study. Intensify your chosen major to develop additional knowledge, skills and experience for your career in science.

Breadth minor (four units)

Broaden your studies to include minors from the list of science majors, second majors or from the list of University-wide minors.

International Course structure

Your science degree

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- innovation and entrepreneurship
- science communication, or
- policy and governance

Minor (four units)

You might prefer to expand the breadth and depth of your studies by adding to your chosen science major with two minors. Minors include:

Extension minor (four units)

Gain further insights and depth in your primary area of study. Intensify your chosen major to develop additional knowledge, skills and experience for your career in science.

Breadth minor (four units)

Broaden your studies to include minors from the list of science majors, second majors or from the list of University-wide minors.

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](#)

Code	Title
Year 1, Semester 1	
SEB104	Grand Challenges in Science
SEB113	Quantitative Methods in Science
SEB115	Experimental Science 1
SEB116	Experimental Science 2
Year 1, Semester 2	

BVB101	Foundations of Biology
BVB102	Evolution
Core Unit Option	
Core Unit Option	
Year 2, Semester 1	
BVB201	Biological Processes
BVB202	Experimental Design and Quantitative Methods
2nd major or minor unit	
2nd major or minor unit	
Year 2, Semester 2	
BVB203	Plant Biology
BVB204	Ecology
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 1	
BVB301	Animal Biology
BVB305	Microbiology and the Environment
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 2	
BVB302	Applied Biology
BVB304	Integrative Biology
2nd major or minor unit	
2nd major or minor unit	

Handbook

Year	2015
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CRICOS	077696D
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	13
Rank	71
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$15,300 per Study Period (48 credit points)
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 Graham Johnson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Associate Professor Eric Waclawik

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: Biology 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.

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

Chemists are involved in most areas of science, technology, environment and industry; for example, medicinal drugs, nanotechnology, water and air quality and energy production. Manufacturing industries rely on chemists to ensure that quality and safety standards are maintained. The development of better and safer drugs depends heavily on the input of chemists.

Chemistry is the study of structures, properties, synthesis and reactions of molecules and materials and these principles are fundamental to many other disciplines, including biotechnology, environmental science, geosciences, materials science and food science.

At QUT you will study analytical, physical, organic and inorganic chemistry with an additional focus on modern applications such as nanotechnology, analytical chemistry, and spectroscopy.

Why choose this course?

The QUT chemistry degree is a qualification that is known and respected by employers. Many employers prefer QUT chemistry graduates, especially those with an extension minor in chemistry, because of their advanced technical skills, their experience with modern instrumentation and their training in scientific communication.

After two years' study, you will be eligible to apply for the Queensland Health Analytical Chemistry Scholarship (available only to QUT chemistry students), which pays \$21 000 for your third year, with guaranteed employment for two years after graduation#.

Our training in analytical chemistry throughout the chemistry degree is renowned nationally. You will undertake a comprehensive laboratory program including experiments using modern computer-based

analytical instruments and gain vital knowledge and experience in the health and safety aspects of handling chemicals. You will learn under the guidance of highly respected lecturers, most of whom are actively involved in cutting-edge research.

Career outcomes

Among a diverse range of employment opportunities, you may become an industrial chemist, materials scientist, environmental chemist, quality control analyst, laboratory supervisor, food chemist, or an organic/inorganic chemist. Your interaction 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 are eligible for membership of the Royal Australian Chemical Institute.

Domestic Course structure

Your science degree

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Primary major

Your major is your main area of study for what you aspire to become professionally. You will receive in-depth knowledge and expertise within your chosen scientific discipline, preparing you for entry into the workforce or further study.

It comprises 10 units and there are five majors to choose from:

- biological sciences
- chemistry
- earth science
- environmental science
- physics.

Complementary study areas

This is where you make the degree your own, tailoring your studies to further match your individual career goals with a wide range of complementary study options available. You'll have the opportunity to develop sought-after professional skills, deepen your understanding of your major discipline, pursue an interest from across the university, or broaden your scientific understanding. You can even work with industry or study overseas to gain credit towards your degree.

You can choose: a Second major (eight units); or an Extended minor (four units) or Breadth minor (four units), plus either a Faculty minor (four units) or Breadth minor (four units).

Second major (eight units)

Choose a second area of study to complement your major, and develop a significant depth of knowledge and skills in two discipline areas. Experience another field, learn another academic methodology and experience interdisciplinary networking.

Choose a second Science discipline, or explore different perspectives which might include:

- computational and simulation science
- innovation and entrepreneurship
- science communication, or
- policy and governance.

Minor (four units)

You might prefer to expand the breadth and depth of your studies by adding to your chosen science major with two minors. Minors include:

Extension minor (four units)

Gain further insights and depth in your primary area of study. Intensify your chosen major to develop additional knowledge, skills and experience for your career in science.

Breadth minor (four units)

Broaden your studies to include minors from the list of science majors, second majors or from the list of University-wide minors.

International Course structure

Your science degree

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- chemistry
- earth science
- environmental science
- physics.

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Choose a second Science discipline, or explore different perspectives which might include:

- computational and simulation science
- innovation and entrepreneurship
- science communication, or
- policy and governance.

Minor (four units)

You might prefer to expand the breadth and depth of your studies by adding to your chosen science major with two minors. Minors include:

Extension minor (four units)

Gain further insights and depth in your primary area of study. Intensify your chosen major to develop additional knowledge, skills and experience for your career in science.

Breadth minor (four units)

Broaden your studies to include minors from the list of science majors, second majors or from the list of University-wide minors.

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](#)

Code	Title
Year 1, Semester 1	
SEB104	Grand Challenges in Science
SEB113	Quantitative Methods in Science
SEB115	Experimental Science 1

SEB116	Experimental Science 2
Year 1, Semester 2	
CVB101	General Chemistry
CVB102	Chemical Structure and Reactivity
Core Unit Option	
Core Unit Option	
Year 2, Semester 1	
CVB201	Inorganic Chemistry
CVB202	Analytical Chemistry
2nd major or minor unit	
2nd major or minor unit	
Year 2, Semester 2	
CVB203	Physical Chemistry
CVB204	Organic Structure and Mechanisms
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 1	
CVB301	Organic Chemistry: Strategies for Synthesis
CVB302	Applied Physical Chemistry
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 2	
CVB303	Coordination Chemistry
CVB304	Chemistry Research Project
2nd major or minor unit	
2nd major or minor unit	

Handbook

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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 Graham Johnson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Jessica Trofimovs

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, Physics, Biology, Earth Science or 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.

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

The Earth is an amazing place and for an earth scientist, it offers a unique natural laboratory that covers both space and time. Earth science is a multidisciplinary science that applies the tools of chemistry, physics, biology and mathematics to understand earth processes, decipher its past and predict its future. Earth scientists work to monitor changes in the Earth's environment and suggest solutions to environmental problems. They study natural hazards to find ways to lessen the loss of life and reduce property damage.

Earth scientists play key roles in the search for fuels and minerals. Climate change, earthquakes, and geothermal energy are just a few of the issues that require knowledge of earth science. Earth science (also known as geoscience) blends the traditional fields of geology, physical geography and oceanography/ hydrology. Geology describes the rocky parts of the Earth's crust (or lithosphere) and its historic development. Physical geography, which studies the Earth's surface, includes geomorphology, soil science, and biogeoscience. The marine and freshwater parts of Earth define the fields of oceanography and hydrology.

Why choose this course?

Earth science is an exciting and fun science with many interesting and practical applications and a great number of travelling opportunities. If you enjoy working outdoors and are interested in understanding how the world works, then you will find earth science a rewarding area of study. Blending current research issues and problem solving with theory and industry-related, hands-on practicals, the earth science major provides you with a fundamental background to pursue a career in either the resource or the environmental sector.

Career outcomes

There is currently a shortage of earth scientists in Australia and employment rates are high and salaries great. Earth scientists are in high demand in the energy sector (oil, gas, coal, geothermal) and exploration and mining industries. Many earth scientists find employment in environmental consulting companies tackling geotechnical, groundwater contamination, natural hazards or climate change issues. Earth scientists may work for government agencies such as CSIRO and Geoscience Australia doing applied research, or for state or local governments.

Domestic Course structure

Your science degree

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Choose a second Science discipline, or explore different perspectives which might include:

- computational and simulation science
- innovation and entrepreneurship
- science communication, or
- policy and governance

Minor (four units)

You might prefer to expand the breadth and depth of your studies by adding to your chosen science major with two minors. Minors include:

Extension minor (four units)

Gain further insights and depth in your primary area of study. Intensify your chosen major to develop additional knowledge, skills and experience for your career in science.

Breadth minor (four units)

Broaden your studies to include minors from the list of science majors, second majors or from the list of University-wide minors.

International Course structure

Your science degree

At QUT you'll create your own personal science degree program of 24 units. During your first year of study you'll get to sample a range of core science disciplines, allowing you to decide on your major later.

Faculty core and imagine science units

These six units give you an introduction to the principles of science the opportunity to learn by enquiry, and to broaden your understanding of the core sciences. You'll study two Faculty core units, two Imagine Science units and two Optional units of your choice.

From your very first semester, you will collaborate with your peers and teaching staff in QUT's exciting new learning environments. In your Imagine Science units you will explore real-world problems from multiple scientific perspectives and learn the tools of the trade. Depending on your choices, you may find yourself out in the field, working in the laboratory or learning about the impact of scientific discovery on people, policy, industry and the planet.

Working with data you have collected, you'll study how to apply fundamental methods of scientific practice, perform scientific analysis, and learn the tools to present your findings. You'll have the opportunity to explore and discover the range of career and professional outcomes available to you, so you can gain the most from your unit selection and the flexibility the Bachelor of Science has to offer.

Primary major

Your major is your main area of study for what you aspire to become professionally. You will receive in-depth knowledge and expertise within your chosen scientific discipline, preparing you for entry into the workforce or further study.

It comprises 10 units and there are five majors to choose from:

- biological sciences
- chemistry
- earth science
- environmental science
- physics.

Complementary study areas

This is where you make the degree your own, tailoring your studies to further match your individual career goals with a wide range of complementary study options available. You'll have the opportunity to develop sought-after professional skills, deepen your understanding of your major discipline, pursue an interest from across the university, or broaden your scientific understanding. You can even work with industry or study overseas to gain credit towards your degree.

You can choose: a Second major (eight units); or an Extended minor (four units) or Breadth minor (four units), plus either a Faculty minor (four units) or Breadth minor (four units).

Second major (eight units)

Choose a second area of study to complement your major, and develop a significant depth of knowledge and skills in two discipline areas. Experience another field, learn another academic methodology and experience interdisciplinary networking.

Choose a second Science discipline, or explore different perspectives which might include:

- computational and simulation science
- innovation and entrepreneurship
- science communication, or
- policy and governance

Minor (four units)

You might prefer to expand the breadth and depth of your studies by adding to your chosen science major with two minors. Minors include:

Extension minor (four units)

Gain further insights and depth in your primary area of study. Intensify your chosen major to develop additional knowledge, skills and experience for your career in science.

Breadth minor (four units)

Broaden your studies to include minors from the list of science majors, second majors or from the list of University-wide minors.

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](#)

Code	Title
Year 1, Semester 1	
SEB104	Grand Challenges in Science
SEB113	Quantitative Methods in Science
SEB115	Experimental Science 1
SEB116	Experimental Science 2
Year 1, Semester 2	
ERB101	Earth Systems
ERB102	Evolving Earth
Core Unit Option	
Core Unit Option	
Year 2, Semester 1	
ERB201	Destructive Earth
ERB202	Marine Geoscience
2nd major or minor unit	
2nd major or minor unit	

Year 2, Semester 2	
ERB203	Sedimentary Geology and Stratigraphy
ERB204	Deforming Earth
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 1	
ERB301	Chemical Earth
ERB302	Applied Geophysics
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 2	
ERB303	Energy Resources and Basin Analysis
ERB304	Dynamic Earth:Plate Tectonics
2nd major or minor unit	
2nd major or minor unit	

Handbook

Year	2015
QUT code	ST01
CRICOS	077696D
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	13
Rank	71
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$15,300 per Study Period (48 credit points)
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 Graham Johnson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Andrew Baker

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: At least one of Chemistry, Physics, Biology, Earth Science or 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.

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?

The environmental science course at QUT is designed to provide hands-on skills and field experiences using real-world industry examples and methods to allow you to pursue a variety of careers as an environmental scientist. The program has particular strengths in the areas of land resources, hydrogeology, environmental geology, biogeochemistry, geographic information systems and field mapping, systems modelling and sustainable management.

The program also emphasises practical skills and experience, including day-long and extended field trips. You will learn from guest lecturers from relevant government agencies, industry and QUT staff who regularly provide advice for industry, government and community groups.

Overview

We rely on our natural environment to sustain our lives and our lifestyles. Do you want to help the earth's natural environment to maintain its integrity while continuing our urban and rural development? Have you wanted to be part of the solution to our increasing environmental issues such as climate change, air, water and soil quality, soil erosion, dry land salinity or water resources? We continually need to improve our understanding and management of the natural environment to balance our development with wise management while minimising impacts and degradation.

An understanding of the mechanisms controlling environmental systems provides the skills required to undertake a great range of scientific environmental planning and management, and tackle problems such as local water quality and ecosystem impacts, soil erosion, catchment and groundwater use, or adaptation to global climate change.

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, local councils, consultancy, and 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 and a variety of other scientific societies, including the Soil Science Society of Australia and the Ecological Society of Australia.

Domestic Course structure

Your science degree

At QUT you'll create your own personal science degree program of 24 units. During your first year of study you'll get to sample a range of core science disciplines, allowing you to decide on your major later.

Faculty core and imagine science units

These six units give you an introduction to the principles of science the opportunity to learn by enquiry, and to broaden your understanding of the core sciences. You'll study two Faculty core units, two Imagine Science units and two Optional units of your choice.

From your very first semester, you will collaborate with your peers and teaching staff in QUT's exciting new learning environments. In your Imagine Science units you will explore real-world problems from multiple scientific perspectives and learn the tools of the trade. Depending on your choices, you may find yourself out in the field, working in the laboratory or learning about the impact of scientific discovery on people, policy, industry and the planet.

Working with data you have collected, you'll study how to apply fundamental methods of scientific practice, perform scientific analysis, and learn the tools to present your findings. You'll have the opportunity to explore and discover the range of career and professional outcomes available to you, so you can gain the most from your unit selection and the flexibility the Bachelor of Science has to offer.

Primary major

Your major is your main area of study for what you aspire to become professionally. You will receive in-depth knowledge and expertise within your chosen scientific discipline, preparing you for entry into the workforce or further study.

It comprises 10 units and there are five majors to choose from:

- biological sciences
- chemistry
- earth science
- environmental science
- physics.

Bachelor of Science (Environmental Science)

Complementary study areas

This is where you make the degree your own, tailoring your studies to further match your individual career goals with a wide range of complementary study options available. You'll have the opportunity to develop sought-after professional skills, deepen your understanding of your major discipline, pursue an interest from across the university, or broaden your scientific understanding. You can even work with industry or study overseas to gain credit towards your degree.

You can choose: a Second major (eight units); or an Extended minor (four units) or Breadth minor (four units), plus either a Faculty minor (four units) or Breadth minor (four units).

Second major (eight units)

Choose a second area of study to complement your major, and develop a significant depth of knowledge and skills in two discipline areas. Experience another field, learn another academic methodology and experience interdisciplinary networking.

Choose a second Science discipline, or explore different perspectives which might include:

- computational and simulation science
- innovation and entrepreneurship
- science communication, or
- policy and governance.

Minor (four units)

You might prefer to expand the breadth and depth of your studies by adding to your chosen science major with two minors. Minors include:

Extension minor (four units)

Gain further insights and depth in your primary area of study. Intensify your chosen major to develop additional knowledge, skills and experience for your career in science.

Breadth minor (four units)

Broaden your studies to include minors from the list of science majors, second majors or from the list of University-wide minors.

International Course structure

Your science degree

At QUT you'll create your own personal science degree program of 24 units. During your first year of study you'll get to sample a range of core science disciplines, allowing you to decide on your major later.

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flexibility the Bachelor of Science has to offer.

Primary major

Your major is your main area of study for what you aspire to become professionally. You will receive in-depth knowledge and expertise within your chosen scientific discipline, preparing you for entry into the workforce or further study.

It comprises 10 units and there are five majors to choose from:

- biological sciences
- chemistry
- earth science
- environmental science
- physics.

Complementary study areas

This is where you make the degree your own, tailoring your studies to further match your individual career goals with a wide range of complementary study options available. You'll have the opportunity to develop sought-after professional skills, deepen your understanding of your major discipline, pursue an interest from across the university, or broaden your scientific understanding. You can even work with industry or study overseas to gain credit towards your degree.

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Choose a second area of study to complement your major, and develop a significant depth of knowledge and skills in two discipline areas. Experience another field, learn another academic methodology and experience interdisciplinary networking.

Choose a second Science discipline, or explore different perspectives which might include:

- computational and simulation science
- innovation and entrepreneurship
- science communication, or
- policy and governance.

Minor (four units)

You might prefer to expand the breadth and depth of your studies by adding to your chosen science major with two minors. Minors include:

Extension minor (four units)

Gain further insights and depth in your primary area of study. Intensify your chosen major to develop additional knowledge, skills and experience for your career in science.

Breadth minor (four units)

Broaden your studies to include minors from the list of science majors, second majors or from the list of University-wide minors.

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](#)

Code	Title
Year 1, Semester 1	
SEB104	Grand Challenges in Science
SEB113	Quantitative Methods in Science
SEB115	Experimental Science 1

SEB116	Experimental Science 2
Year 1, Semester 2	
ERB101	Earth Systems
EVB102	Ecosystems and the Environment
Core Unit Option	
Core Unit Option	
Year 2, Semester 1	
BVB202	Experimental Design and Quantitative Methods
EVB201	Global Environmental Issues
2nd major or minor unit	
2nd major or minor unit	
Year 2, Semester 2	
EVB203	Geospatial Information Science
EVB212	Soils and the Environment
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 1	
EVB301	Urban and Natural Environmental Systems
EVB302	Environmental Pollution
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 2	
ENB380	Environmental Law and Assessment
EVB304	Case Studies in Environmental Science
2nd major or minor unit	
2nd major or minor unit	

Handbook

Year	2015
QUT code	ST01
CRICOS	077696D
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
OP	13
Rank	71
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$15,300 per Study Period (48 credit points)
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 Graham Johnson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Kristy Vernon

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, Physics, Biology, Earth Science or 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.

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

Physicists are involved in finding solutions to many current and future challenges facing our world. These include developing instruments for environmental monitoring, computer models for climate change prediction, and developing solar and renewable energy systems. Physicists are also attempting to address the world's ever-increasing appetite for information and information processing by undertaking research into quantum computers, nanotechnology, lasers and photonics.

Physics deals with the natural laws and processes, and the states and properties, of matter, energy, space and time. Physics also underlies many of the recent advances in information technology, medicine and biotechnology. Areas of specialisation include mechanics, electromagnetism, lasers and optics, medical physics, computational physics, nuclear and radiation physics, astronomy and astrophysics, thermodynamics, quantum mechanics and relativity.

Why choose this course?

QUT's physics course has a strong applied emphasis so you will spend a significant amount of time in the undergraduate teaching laboratories. In each unit that you study the theory will be supported by experimental work. In your final year, you will undertake research and gain exposure to the research laboratories through the experimental physics unit.

You can also apply for a Vacation Research Experience Scholarship to gain experience working on a research project. Many of the lecturers at QUT have worked in industry and QUT works closely with industry through consultancy and research projects, so you can be sure that the course will be up to date and relevant to the real world.

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 and the Defence Science and Technology Organisation, 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 makes 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, dependent on choice of study options.

Domestic Course structure Your science degree

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Primary major

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It comprises 10 units and there are five majors to choose from:

- biological sciences
- chemistry
- earth science
- environmental science
- physics.

Complementary study areas

This is where you make the degree your own, tailoring your studies to further match your individual career goals with a wide range of complementary study options available. You'll have the opportunity to

Bachelor of Science (Physics)

develop sought-after professional skills, deepen your understanding of your major discipline, pursue an interest from across the university, or broaden your scientific understanding. You can even work with industry or study overseas to gain credit towards your degree.

You can choose: a Second major (eight units); or an Extended minor (four units) or Breadth minor (four units), plus either a Faculty minor (four units) or Breadth minor (four units).

Second major (eight units)

Choose a second area of study to complement your major, and develop a significant depth of knowledge and skills in two discipline areas. Experience another field, learn another academic methodology and experience interdisciplinary networking.

Choose a second Science discipline, or explore different perspectives which might include:

- computational and simulation science
- innovation and entrepreneurship
- science communication,
- policy and governance.

Minor (four units)

You might prefer to expand the breadth and depth of your studies by adding to your chosen science major with two minors. Minors include:

Extension minor (four units)

Gain further insights and depth in your primary area of study. Intensify your chosen major to develop additional knowledge, skills and experience for your career in science.

Breadth minor (four units)

Broaden your studies to include minors from the list of science majors, second majors or from the list of University-wide minors.

International Course structure

Your science degree

At QUT you'll create your own personal science degree program of 24 units. During your first year of study you'll get to sample a range of core science disciplines, allowing you to decide on your major later.

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Primary major

Your major is your main area of study for what you aspire to become professionally. You will receive in-

depth knowledge and expertise within your chosen scientific discipline, preparing you for entry into the workforce or further study.

It comprises 10 units and there are five majors to choose from:

- biological sciences
- chemistry
- earth science
- environmental science
- physics.

Complementary study areas

This is where you make the degree your own, tailoring your studies to further match your individual career goals with a wide range of complementary study options available. You'll have the opportunity to develop sought-after professional skills, deepen your understanding of your major discipline, pursue an interest from across the university, or broaden your scientific understanding. You can even work with industry or study overseas to gain credit towards your degree.

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Second major (eight units)

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Choose a second Science discipline, or explore different perspectives which might include:

- computational and simulation science
- innovation and entrepreneurship
- science communication,
- policy and governance.

Minor (four units)

You might prefer to expand the breadth and depth of your studies by adding to your chosen science major with two minors. Minors include:

Extension minor (four units)

Gain further insights and depth in your primary area of study. Intensify your chosen major to develop additional knowledge, skills and experience for your career in science.

Breadth minor (four units)

Broaden your studies to include minors from the list of science majors, second majors or from the list of University-wide minors.

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](#)

Code	Title
Year 1, Semester 1	
SEB104	Grand Challenges in Science
SEB113	Quantitative Methods in Science
SEB115	Experimental Science 1
SEB116	Experimental Science 2
Year 1, Semester 2	
PVB101	Physics of the Very Large
PVB102	Physics of the Very

	Small
Core Unit Option	
Core Unit Option	
Year 2, Semester 1	
PVB200	Computational and Mathematical Physics
[PVB201 replaced by PVB200 in 2015.]	
PVB203	Experimental Physics
2nd major or minor unit	
2nd major or minor unit	
Year 2, Semester 2	
PVB202	Mathematical Methods in Physics
PVB204	Electromagnetism
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 1	
PVB301	Materials and Thermal Physics
PVB302	Classical and Quantum Physics
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 2	
PVB303	Nuclear and Particle Physics
PVB304	Physics Research
2nd major or minor unit	
2nd major or minor unit	

Handbook

Year	2015
QUT code	ST01
CRICOS	077696D
Duration (full-time)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
Start months	February
Int. Start Months	February
Course Coordinator	Science and Engineering Faculty - ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Minimum English requirements

Students must meet the English proficiency requirements.

Please Note

As of 2013, all new Dean's Scholar applicants will be admitted into the standard Bachelor programs, with no accelerated studies and no pre-approved articulation to Honours degrees.

As of 2014, there will not be a separate QTAC entry point for the Science and Engineering Dean's Scholar Programs whilst the scholarship undergoes a further review.

Eligibility Criteria

Applicants must:

- have completed Year 12 in the year they apply for the program, or the previous year
- have received an OP 1 (or equivalent)
- be starting university for the first time
- demonstrate leadership experience and potential
- demonstrate community participation and engagement
- apply for and gain a place in the relevant Dean's Scholars Program

If studying at QUT International College (QUTIC), applicant must have a grade point average (GPA) of at least 6.5 for the two semesters immediately before they apply for the Dean's Scholars Program.

If expecting to get an OP of 1-3, applicant should apply for consideration.

Financial Support

Successful applicants will receive:

- A scholarship of up to \$6,000 per annum, usually payable in 2 instalments of \$3,000 by the 2nd week of semester 1 and semester 2 of each year. The scholarship would apply for the full-time duration of the undergraduate degree, contingent upon students meeting the conditions of the program (refer to Conditions below). The total value of the scholarship is limited to \$18,000 for the 3 year programs and \$24,000 for the 4 year programs.

Conditions

To keep a place in the Dean's Scholars program, students must:

- maintain enrolment full-time in the eligible undergraduate course
- graduate from the Bachelor of Science within 3 years of starting, except where you've taken a leave of absence approved by the Assistant Dean, or there are other extenuating circumstances
- maintain a grade point average (GPA) of at least 6.0 each semester
- meet the requirements of program completion (for example work experience and work integrated learning)
- pay any costs associated with their program that aren't covered by the scholarship, including additional and repeated units
- demonstrate adequate participation in extracurricular elements of the program.

Students can:

- apply to change their course structure under exceptional circumstances. Students must apply through their academic mentor or course coordinator, and receive prior written approval from the Assistance Dean International and Engagement.
- apply [for other scholarships and bursaries](#), including ones associated with travel, as long as they are

allowed to under the conditions of the other scholarship and under our [Industry sponsored student scholarships policy](#).

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](#)

Code	Title
Year 1, Semester 1	
SEB104	Grand Challenges in Science
SEB113	Quantitative Methods in Science
SEB115	Experimental Science 1
SEB116	Experimental Science 2
Year 1, Semester 2	
BVB101	Foundations of Biology
BVB102	Evolution
Core Unit Option	
Core Unit Option	
Year 2, Semester 1	
BVB201	Biological Processes
BVB202	Experimental Design and Quantitative Methods
2nd major or minor unit	
2nd major or minor unit	
Year 2, Semester 2	
BVB203	Plant Biology
BVB204	Ecology
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 1	
BVB301	Animal Biology
BVB305	Microbiology and the Environment
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 2	
BVB302	Applied Biology
BVB304	Integrative Biology
2nd major or minor unit	
2nd major or minor unit	

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](#)

Code	Title
Year 1, Semester 1	
SEB104	Grand Challenges in Science
SEB113	Quantitative Methods in Science
SEB115	Experimental Science 1
SEB116	Experimental Science 2
Year 1, Semester 2	

Bachelor of Science - Dean's Scholars Program

CVB101	General Chemistry
CVB102	Chemical Structure and Reactivity
Core Unit Option	
Core Unit Option	
Year 2, Semester 1	
CVB201	Inorganic Chemistry
CVB202	Analytical Chemistry
2nd major or minor unit	
2nd major or minor unit	
Year 2, Semester 2	
CVB203	Physical Chemistry
CVB204	Organic Structure and Mechanisms
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 1	
CVB301	Organic Chemistry: Strategies for Synthesis
CVB302	Applied Physical Chemistry
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 2	
CVB303	Coordination Chemistry
CVB304	Chemistry Research Project
2nd major or minor unit	
2nd major or minor unit	

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](#)

Code	Title
Year 1, Semester 1	
SEB104	Grand Challenges in Science
SEB113	Quantitative Methods in Science
SEB115	Experimental Science 1
SEB116	Experimental Science 2
Year 1, Semester 2	
ERB101	Earth Systems
ERB102	Evolving Earth
Core Unit Option	
Core Unit Option	
Year 2, Semester 1	
ERB201	Destructive Earth
ERB202	Marine Geoscience
2nd major or minor unit	
2nd major or minor unit	
Year 2, Semester 2	
ERB203	Sedimentary Geology and Stratigraphy
ERB204	Deforming Earth
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 1	
ERB301	Chemical Earth
ERB302	Applied Geophysics

2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 2	
ERB303	Energy Resources and Basin Analysis
ERB304	Dynamic Earth: Plate Tectonics
2nd major or minor unit	
2nd major or minor unit	

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](#)

Code	Title
Year 1, Semester 1	
SEB104	Grand Challenges in Science
SEB113	Quantitative Methods in Science
SEB115	Experimental Science 1
SEB116	Experimental Science 2
Year 1, Semester 2	
ERB101	Earth Systems
EVB102	Ecosystems and the Environment
Core Unit Option	
Core Unit Option	
Year 2, Semester 1	
BVB202	Experimental Design and Quantitative Methods
EVB201	Global Environmental Issues
2nd major or minor unit	
2nd major or minor unit	
Year 2, Semester 2	
EVB203	Geospatial Information Science
EVB212	Soils and the Environment
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 1	
EVB301	Urban and Natural Environmental Systems
EVB302	Environmental Pollution
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 2	
ENB380	Environmental Law and Assessment
EVB304	Case Studies in Environmental Science
2nd major or minor unit	
2nd major or minor unit	

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](#)

Code	Title
Year 1, Semester 1	

SEB104	Grand Challenges in Science
SEB113	Quantitative Methods in Science
SEB115	Experimental Science 1
SEB116	Experimental Science 2
Year 1, Semester 2	
PVB101	Physics of the Very Large
PVB102	Physics of the Very Small
Core Unit Option	
Core Unit Option	
Year 2, Semester 1	
PVB200	Computational and Mathematical Physics
[PVB201 replaced by PVB200 in 2015.]	
PVB203	Experimental Physics
2nd major or minor unit	
2nd major or minor unit	
Year 2, Semester 2	
PVB202	Mathematical Methods in Physics
PVB204	Electromagnetism
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 1	
PVB301	Materials and Thermal Physics
PVB302	Classical and Quantum Physics
2nd major or minor unit	
2nd major or minor unit	
Year 3, Semester 2	
PVB303	Nuclear and Particle Physics
PVB304	Physics Research
2nd major or minor unit	
2nd major or minor unit	

Handbook

Year	2015
QUT code	UD01
CRICOS	080479J
Duration (full-time)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	384
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Enquiries to: Science and Engineering Faculty; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au

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 program has been designed to provide you with a real life exposure to a range of urban development disciplines to understand how your chosen course helps to prepare you for a rewarding career in the built environment. You have the opportunity to collaborate with your peers and teaching staff at QUT and to learn in exciting new learning environments. Throughout the course you will experience a range of site visits and fieldwork that will link the theory in lectures to everyday situations in your chosen field of study. You will learn about a range of career opportunities and professional outcomes that will enable you to optimise your experience and potential career. Your major will provide you with in depth knowledge and expertise in an urban development discipline. You will also have the opportunity to undertake a second major or two minors in an area that will broaden your urban development experience and/or complement your first major.

Course Design

Your QUT Bachelor of Urban Development (Honours) degree consists of 384 credit points (32 units) arranged as follows:

(a) 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.

(b) 216 credit points (18 units) comprising one (1) major from the following:

- Construction Management
- Quantity Surveying and Cost Engineering
- Urban and Regional Planning

(c)

96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each) from the options specified for your chosen major.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs

Domestic Course structure Course Design

Your QUT Bachelor of Urban Development (Honours) degree consists of 384 credit points (32 units) arranged as follows:

(a) 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.

(b) 216 credit points (18 units) comprising one (1) major from the following:

- Construction Management
- Quantity Surveying and Cost Engineering
- Urban and Regional Planning

(c) 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each) from the options specified for your chosen major.

International Course structure Course Design

Your QUT Bachelor of Urban Development (Honours) degree consists of 384 credit points (32 units) arranged as follows:

(a) 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.

(b) 216 credit points (18 units) comprising one (1) major from the following:

- Construction Management
- Quantity Surveying and Cost Engineering
- Urban and Regional Planning

(c) 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each) from the options specified for your chosen major.

Handbook

Year	2015
QUT code	UD01
CRICOS	080479J
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	384
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	Enquiries to: Science and Engineering Faculty; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Matthew Gray sef.enquiry@qut.edu.au

Domestic Assumed knowledge

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

- Maths A, B or C
- English

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

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

The QUT Bachelor of Urban Development (Honours) degree with a primary major (Study Area A) in Construction Management is designed to provide you with 'real-life' exposure, and the knowledge and skills to prepare you for rewarding career in the Construction, Development and associated industries. With the capacity, will and innovation to contribute to a better built environment, as a work-ready graduate, you will be able to apply sound judgement and expertise in practice managing complex built environments.

Course Design

Your QUT Bachelor of Urban Development (Honours) (Construction Management) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Construction Management discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Construction Management Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher order thinking to an advanced level.

Complementary Studies Options

Second Major:

A choice of one second major from:

Urban Development disciplines:

- Urban and Regional Planning Studies
- Property
- Accountancy
- Applied Economics and Finance

(additional second major choices are currently under development)

Minors:

A choice of two minors from the lists below:

Urban Development disciplines:

- Urban and Regional Planning Studies
- Property Development
- Property Investment and Finance
- Property Valuation

Other disciplines:

- Language Minors – University Wide Options
- [University Wide Minors](#)

Special Course Requirements

You are required to obtain a minimum of 80 days of approved construction management industrial experience as part of your Work Integrated Learning core unit.

Professional Recognition

Graduates are eligible for membership of the Australian Institute of Building (AIB)

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs

Domestic Course structure Course Design

Your QUT Bachelor of Urban Development (Honours) (Construction Management) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Construction Management discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Construction Management Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher-order thinking to an advanced level.

Bachelor of Urban Development (Honours) (Construction Management)

Complementary Studies Options

Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also available.

Second Majors

A second major provides the opportunity for you to undertake significant studies in a second Urban Development discipline such as Property Economics, Urban and Regional Planning, Accountancy or Applied Economics and Finance. Second majors are also designed to provide diverse professional skills and knowledge beyond the traditional reaches of the built environment curriculum and can offer a range of study options in other fields.

Minors

Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

International Course structure

Course Design

Your QUT Bachelor of Urban Development (Honours) (Construction Management) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Construction Management discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Construction Management Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher order thinking to an advanced level.

Complementary Studies Options

Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also available.

Second Majors

A second major provides the opportunity for you to undertake significant studies in a second Urban Development discipline such as Property Economics, Urban and Regional Planning, Accountancy or Applied Economics and Finance. Second majors are also designed to provide diverse professional skills and knowledge beyond the traditional reaches of the built environment curriculum and can offer a range of study options in other fields.

Minors

Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

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	
USB100	Understanding the Built Environment
UXB110	Residential Construction
UXB111	Imagine Construction Management
UXB112	Introduction to Structures
Year 1, Semester 2	
BSB113	Economics
LWS012	Urban Development Law
UXB113	Measurement for Construction
UXB114	Integrated Construction
Year 2, Semester 1	
UXB210	Commercial Construction
UXB211	Building Services
UXB213	Advanced Measurement for Construction
2nd Major/Minor unit	
Year 2, Semester 2	
UXB212	Designing Structures
UXB214	Construction Estimating
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 1	
USB300	Property Development
UXH310	High-rise Construction

UXH311	Contract Administration
2nd Major/Minor unit	
Year 3, Semester 2	
SEB701	Work Integrated Learning 1
UXH312	Construction Legislation
UXH314	Modern Construction Business
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
UXH400-1	Research Project 1 - Part A
UXH411	Programming and Scheduling
2nd Major/Minor unit	
Year 4, Semester 2	
UXH400-2	Research Project 1 - Part B
UXH410	Strategic Construction Management
2nd Major/Minor unit	
2nd Major/Minor unit	

Handbook

Year	2015
QUT code	UD01
CRICOS	080479J
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	384
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	Enquiries to: Science and Engineering Faculty; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Mr Jason Gray sef.enquiry@qut.edu.au

Domestic Assumed knowledge

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

- Maths A, B or C
- English

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

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

The QUT Bachelor of Urban Development (Honours) degree with a primary major (Study Area A) in Quantity Surveying and Cost Engineering is designed to provide you with 'real-life' exposure, and the knowledge and skills to prepare you for rewarding career the Construction, Resources and associated industries. With the capacity, will and innovation to contribute to a better built environment, as a work-ready graduate, you will be able to apply sound judgement and expertise in practice within your chosen field.

Course Design

Your QUT Bachelor of Urban Development (Honours) (Quantity Surveying and Cost Engineering) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Quantity Surveying and Cost Engineering discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Quantity Surveying and Cost Engineering Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher order thinking to an advanced level.

Complementary Studies Options

Second Major:

A choice of one second major from:

Urban Development disciplines:

- Urban and Regional Planning Studies
- Property
- Accountancy
- Applied Economics and Finance

(additional second major choices are currently under development)

Minors:

A choice of two minors from the lists below:

Urban Development disciplines:

- Urban and Regional Planning Studies
- Property Development
- Property Investment and Finance
- Property Valuation

Other disciplines:

- Language Minors – University Wide Options
- [University Wide Minors](#)

Special Course Requirements

You are required to obtain a minimum of 80 days of approved quantity surveying and cost engineering industrial experience as part of your Work Integrated Learning core unit.

Professional Recognition

Graduates are eligible for membership of the Australian Institute of Quantity Surveyors (AIQS), the Royal Institution of Chartered Surveyors (RICS) and Board of Quantity Surveyors Malaysia (BQSM).

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs

Domestic Course structure Course Design

Your QUT Bachelor of Urban Development (Honours) (Quantity Surveying and Cost Engineering) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Quantity Surveying and Cost Engineering discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Bachelor of Urban Development (Honours) (Quantity Surveying and Cost Engineering)

Quantity Surveying and Cost Engineering Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher-order thinking to an advanced level.

Complementary Studies Options

Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also available.

Second Majors

A second major provides the opportunity for you to undertake significant studies in a second Urban Development discipline such as Property Economics, Urban and Regional Planning, Accountancy or Applied Economics and Finance. Second majors are also designed to provide diverse professional skills and knowledge beyond the traditional reaches of the built environment curriculum and can offer a range of study options in other fields.

Minors

Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

International Course structure

Course Design

Your QUT Bachelor of Urban Development (Honours) (Quantity Surveying and Cost Engineering) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Quantity Surveying and Cost Engineering discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Quantity Surveying and Cost Engineering Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your

knowledge, practice and higher-order thinking to an advanced level.

Complementary Studies Options

Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also available.

Second Majors

A second major provides the opportunity for you to undertake significant studies in a second Urban Development discipline such as Property Economics, Urban and Regional Planning, Accountancy or Applied Economics and Finance. Second majors are also designed to provide diverse professional skills and knowledge beyond the traditional reaches of the built environment curriculum and can offer a range of study options in other fields.

Minors

Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

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	
USB100	Understanding the Built Environment
UXB110	Residential Construction
UXB120	Introduction to Heavy Engineering Sector Technology
UXB121	Imagine Quantity Surveying and Cost Engineering
Year 1, Semester 2	
BSB113	Economics
LWS012	Urban Development Law
UXB113	Measurement for Construction
UXB114	Integrated Construction
Year 2, Semester 1	
UXB210	Commercial Construction
UXB211	Building Services
UXB213	Advanced Measurement for Construction
2nd Major/Minor unit	
Year 2, Semester 2	
UXB214	Construction Estimating

UXB220	Services and Heavy Engineering Measurement
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 1	
USB300	Property Development
UXH310	High-rise Construction
UXH311	Contract Administration
2nd Major/Minor unit	
Year 3, Semester 2	
SEB701	Work Integrated Learning 1
UXH314	Modern Construction Business
UXH321	Cost Planning and Controls
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
UXH400-1	Research Project 1 - Part A
UXH420	Risk Management in the Resources Sector
2nd Major/Minor unit	
Year 4, Semester 2	
UXH312	Construction Legislation
UXH400-2	Research Project 1 - Part B
2nd Major/Minor unit	
2nd Major/Minor unit	

Handbook

Year	2015
QUT code	UD01
CRICOS	080479J
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	384
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	Enquiries to: Science and Engineering Faculty; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Paul Donehue 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 (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

The QUT Bachelor of Urban Development (Honours) degree with a primary major (Study Area A) in Urban and Regional Planning is designed to provide you with 'real-life' exposure and knowledge and expertise in the field to design and administer plans and policy at neighbourhood, local, regional and state levels. With the capacity and will to contribute to a better built environment, as a work-ready graduate, you will be able to apply your perceptive sensibilities and skills in practice to create sustainable natural and human environments.

Course Design

Your QUT Bachelor of Urban Development (Honours) (Urban and Regional Planning) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Urban and Regional Planning discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Urban and Regional Planning Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher order thinking to an advanced level.

Complementary Studies Options

Second Major:

A choice of one second major from:

Urban Development disciplines:

- Urban Development Construction
- Property
- Accountancy
- Applied Economics and Finance

(additional second major choices are currently under development)

Minors:

A choice of two minors from the lists below:

Urban Development disciplines:

- Residential Construction
- Administration in Construction
- Building Economics
- Property Development
- Property Investment and Finance
- Property Valuation

Other disciplines:

- Urban Design
- Language Minors – University Wide Options
- University Wide Minors

Professional Recognition

Graduates are eligible for membership of the Planning Institute of Australia (PIA)

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs

Domestic Course structure

Course Design

Your QUT Bachelor of Urban Development (Honours) (Urban and Regional Planning) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Urban and Regional Planning discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Urban and Regional Planning Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher-order thinking to an advanced level.

Complementary Studies Options

Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also

Bachelor of Urban Development (Honours) (Urban and Regional Planning)

available.

Second Majors

A second major provides the opportunity for you to undertake significant studies in a second Urban Development discipline such as Property Economics, Construction Management, Accountancy or Applied Economics and Finance. Second majors are also designed to provide diverse professional skills and knowledge beyond the traditional reaches of the built environment curriculum and can offer a range of study options in other fields.

Minors

Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

International Course structure

Course Design

Your QUT Bachelor of Urban Development (Honours) (Urban and Regional Planning) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Urban and Regional Planning discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Urban and Regional Planning Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher-order thinking to an advanced level.

Complementary Studies Options

Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also available.

Second Majors

A second major provides the opportunity for you to undertake significant studies in a second Urban Development discipline such as Property Economics, Construction Management, Accountancy, Applied

Economics and Finance. Second majors are also designed to provide diverse professional skills and knowledge beyond the traditional reaches of the built environment curriculum and can offer a range of study options in other fields.

Minors

Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

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	
USB100	Understanding the Built Environment
UXB130	History of the Built Environment
UXB131	Imagine Planning and Design
UXB132	Urban Analysis
Year 1, Semester 2	
BSB113	Economics
LWS012	Urban Development Law
UXB133	Urban Studies
UXB134	Land Use Planning
Year 2, Semester 1	
UXB230	Site Planning
UXB231	Planning Processes
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 2, Semester 2	
UXB232	Negotiation and Conflict Resolution
UXB233	Planning Law
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 1	
USB300	Property Development
UXB330	Urban Design
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 2	
SEB701	Work Integrated Learning 1
UXH331	Environmental Analysis and Planning

UXB332	Transport Planning
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
UXH400-1	Research Project 1 - Part A
UXH430	Planning Theory and Ethics
UXH431	Urban Planning Practice
Year 4, Semester 2	
UXH400-2	Research Project 1 - Part B
UXH432	Community Planning
UXH433	Regional Planning
2nd Major/Minor unit	

Handbook

Year	2015
QUT code	UD05
CRICOS	080478K
Duration (full-time)	3 years
OP	11
Rank	76
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,600 per Study Period (48 credit points)
Total credit points	288
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	Andrea Blake; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Assumed knowledge

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

- Maths A, B or C
- English

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

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

The Bachelor of Property Economics provides the theory and practical understanding of the role that property plays in the Australian and international economy. In addition the course provides details on the role of the numerous property professionals who assess, develop, value, finance and manage all classes of public and private property. The course is designed for students who have an interest in the role that property plays in the Australian and international economy and have a desire to participate in ensuring that the property industry remains economically and environmentally sustainable and meets the social needs of all members of society.

The course will present you with:

- Diverse perspectives to encourage your spirit of inquiry
- Engaging experiences in the classroom, in the field and with leading industry professionals
- Flexible study choices and the opportunity to prepare for a range of property careers in the public and private sector
- Relevant subject matter designed to enable you to make a difference by applying property economics to known problems
- Coherent studies which have been carefully designed to prepare you for your introduction into the property industry

Course Design

Your QUT Bachelor of Property Economics degree consists of 288 credit points (24 units) arranged as follows:

- 72 credit points (6 units) of Property Economics Core units, which includes a Work Integrated Learning unit that requires completion of 30 days of workplace learning.
- 120 credit points (10 units) of Property Economics discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Property Economics Core Units

These units will engage you in understanding property economics from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field, and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning

development through experiential and enquiry based learning in collaborative environments.

Property Economics Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with graduate level units. They focus on developing knowledge, practice and higher order thinking.

Complementary Studies Options

Second Major:

A choice of one second major from:

Urban Development disciplines:

- Urban and Regional Planning Studies
- Urban Development Construction
- Accountancy
- Applied Economics and Finance

(additional second major choices for property economics are currently under development)

Minors:

A choice of two minors from the lists below:

Urban Development disciplines:

- Property Valuation Accreditation Minor (*Extension Minor*)
To meet the educational requirements for professional accreditation and membership of the Royal Institution of Chartered Surveyors (RICS) valuation pathway, the educational standards required for those graduates who wish to become Certified Practising Valuers (CPV) with the Australian Property Institute (API); the Valuers Registration Board of Queensland and the Board of Valuers, Appraisers and Estate Agents Malaysia (BOVEA) educational requirements, students will require the Property Valuation Accreditation Minor (48cps). This may be taken as Complementary Studies and comprises the following units: USB243 Property Legislation, USB246 Transaction Process, USB342 Property Software, USB343 Boutique Valuations

- Urban and Regional Planning Studies
- Residential Construction
- Administration in Construction
- Building Economics

Other disciplines:

- Language Minors – University Wide Options
- [University Wide Minors](#)

Professional Recognition

This degree is accredited by the Australian Property Institute (API) and meets the membership requirements of a Certified Property Practitioner (CPP). With completion of the Property Valuation Accreditation Minor (Property Software, Boutique Valuation, Property Legislation, Transaction Process) this degree meets the additional educational requirements for professional accreditation and membership of the Royal Institution of Chartered Surveyors (RICS) valuation pathway; the Australian Property Institute (API) – Certified Practising Valuers (CVP); the Valuers Registration Board of Queensland; and the Board of Valuers, Appraisers and Estate Agents (BOVEA), Malaysia.

Pathways to Further Study

The QUT Bachelor of Property Economics is located at Level 7 of the Australian Qualifications Framework (AQF). Eligible graduates may continue their studies in this discipline with an additional honours year in (UD10) Bachelor of Property Economics (Honours).

Domestic Course structure

Course Design

The QUT Bachelor of Property Economics degree consists of 288 credit points (24 units) arranged as follows:

- 72 credit points (6 units) of Property Economics Core units, which includes a Work Integrated Learning unit that requires completion of 30 days of workplace learning.
- 120 credit points (10 units) of Property Economics discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Property Economics Core Units

These units will engage you in understanding property economics from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Property Economics Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with graduate level units. They focus on developing knowledge, practice and higher-order thinking.

Complementary Studies Options

Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also available.

Second Majors

A second major provides the opportunity for you to undertake significant studies in a second Urban Development discipline such as Construction Management, Urban and Regional Planning, Accountancy or Applied Economics and Finance. Second majors are also designed to provide diverse professional skills and knowledge beyond the traditional reaches of the built environment curriculum and can offer a range of study options in other fields.

Minors

Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Property Valuation Accreditation Minor

This is an extension minor option for property economics students and may be taken as part of your complementary studies. The minor will provide you with additional property valuation studies: to meet the educational requirements for professional accreditation and membership of the Royal Institution of Chartered Surveyors (RICS) valuation pathway; to meet the educational standards required for those graduates who wish to become Certified Practising Valuers (CVP) with the Australian Property Institute (API); and to meet the Valuers Registration Board of Queensland and the Board of Valuers, Appraisers and Estate Agents Malaysia educational requirements.

Pathways to Further Study

The QUT Bachelor of Property Economics is located at Level 7 of the Australian Qualifications Framework (AQF). Eligible graduates may continue their studies in this discipline with an additional honours year in (UD10) Bachelor of Property Economics (Honours).

International Course structure

Course Design

The QUT Bachelor of Property Economics degree consists of 288 credit points (24 units) arranged as follows:

- 72 credit points (6 units) of Property Economics Core units, which includes a Work Integrated Learning unit that requires completion of 30 days of workplace learning.
- 120 credit points (10 units) of Property Economics discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Property Economics Core Units

These units will engage you in understanding property economics from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Property Economics Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with graduate level units. They focus on developing knowledge, practice and higher-order thinking.

Complementary Studies Options

Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also available.

Second Majors

A second major provides the opportunity for you to undertake significant studies in a second Urban Development discipline such as Construction Management, Urban and Regional Planning, Accountancy or Applied Economics and Finance. Second majors are also designed to provide diverse professional skills and knowledge beyond the traditional reaches of the built environment curriculum and can offer a range of study options in other fields.

Minors

Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Property Valuation Accreditation Minor

This is an extension minor option for property economics students and may be taken as part of your complementary studies. The minor will provide you with additional property valuation studies: to meet the educational requirements for professional accreditation and membership of the Royal Institution

of Chartered Surveyors (RICS) valuation pathway; to meet the educational standards required for those graduates who wish to become Certified Practising Valuers (CVP) with the Australian Property Institute (API); and to meet the Valuers Registration Board of Queensland and the Board of Valuers, Appraisers and Estate Agents Malaysia educational requirements.

Pathways to Further Study

The QUT Bachelor of Property Economics is located at Level 7 of the Australian Qualifications Framework (AQF). Eligible graduates may continue their studies in this discipline with an additional honours year in (UD10) Bachelor of Property Economics (Honours).

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](#)

Code	Title
Year 1, Semester 1	
USB100	Understanding the Built Environment
USB140	Imagine Property
BSB113	Economics
UXB110	Residential Construction
Year 1, Semester 2	
LWS012	Urban Development Law
UXB134	Land Use Planning
USB141	Building Big
USB242	Experience Property
Year 2, Semester 1	
USB240	Market Analysis
USB241	Money and Wealth
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 2, Semester 2	
USB244	Asset Performance
USB245	Property Investment Analysis
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 1	
For 2015 only	
SEB701	Work Integrated Learning 1
USB341	Money and Property
2nd Major/Minor unit	
2nd Major/Minor unit	
From 2016	
USB300	Property Development
USB341	Money and Property
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 2	
For 2015 only	
UDB302	Development Process
USB344	Property Project
2nd Major/Minor unit	
2nd Major/Minor unit	
From 2016	
USB344	Property Project

Bachelor of Property Economics

SEB701	Work Integrated Learning 1
2nd Major/Minor unit	
2nd Major/Minor unit	

Handbook

Year	2015
QUT code	UD40
CRICOS	056387B
Duration (full-time)	4 years
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,800 per Study Period (48 credit points)
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	Professor Chris Eves; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au

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

Handbook

Year	2015
QUT code	UD40
CRICOS	056387B
Duration (full-time)	4 years
OP	8
Rank	85
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,800 per Study Period (48 credit points)
Total credit points	384
Credit points full-time sem.	48
Start months	February, July
Int. Start Months	February, July This course is available to international students who are eligible for a year or more of Advanced Standing (Credit).
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Professor Chris Eves; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Matthew Gray

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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.0

Course Update

As of 2014, this course will only be available for UD40 continuing students. New students should refer to [UD01 Bachelor of Urban Development \(Honours\)\(Construction Management\)](#)

For further assistance, please contact sef.enquiry@qut.edu.au

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.

Special Course Requirements

All students are required to obtain a minimum of 80 days of approved construction management industrial experience.

Professional Recognition

This course has been accredited by the Australian Institute of Building.

Domestic 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.

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

Bachelor of Urban Development (Construction Management)

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 Course Updates

A number of changes have been made to Science and Engineering Faculty courses. From 2014, first year core units in UD40 Bachelor of Urban Development have been recoded, renamed or discontinued. To see how these changes affect you, please consult the unit replacement table below in conjunction with the course structure. Affected Study Plans are being updated to reflect the changes. Please contact the Faculty if you have any concerns.

[UD40 Unit Replacement Table](#) ►

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	
ENB100	Engineering and Sustainability
DEB100	Design and Sustainability
[UDB100 is replaced by ENB100/EGB100 or DEB100 from 2014]	
USB100	Understanding the Built Environment
[UDB101 is replaced by USB100 from 2014]	
UXB110	Residential Construction
[UDB110 is replaced by UXB110 from 2014]	

UXB112	Introduction to Structures
[UDB111 is replaced by UXB112 from 2014]	
Year 1 - Semester 2	
BEB112	Principle of Project Management
[UDB200 is replaced by BEB112 from 2014]	
BSB113	Economics
[UDB104 is replaced by BSB113 from 2014]	
UXB114	Integrated Construction
[UDB112 is replaced by UXB114 from 2014]	
UXB113	Measurement for Construction
[UDB113 is replaced by UXB113 from 2014]	
Year 2 - Semester 1	
UXB210	Commercial Construction
[UDB210 is replaced by UXB210 from 2015]	
UXB212	Designing Structures
[UDB211 is replaced by UXB212 from 2015]	
UXB213	Advanced Measurement for Construction
[UDB212 is replaced by UXB213 from 2015]	
UXB214	Construction Estimating
[UDB213 is replaced by UXB214 from 2015]	
Year 2 - Semester 2	
LWS012	Urban Development Law
[UDB102 is replaced by LWS012 from 2104]	
UDB214	Professional Studies 2
UXB211	Building Services
[UDB215 is replaced by UXB211 from 2015]	
Minor unit	
Year 3 - Semester 1	
UDB310	Highrise Construction and Engineering
UDB311	Structural Engineering Design
UDB312	Contract Administration
Minor unit	
Year 3 - Semester 2	
UDB202	Business Skills
UDB314	Statutory Construction Law
UDB420	Project Administration
Minor unit	
Year 4 - Semester 1	
SEB701	Work Integrated Learning 1
UDB301	Research Methods
UDB313	Programming and Scheduling
Minor unit	
Year 4 - Semester 2	
BEB801	Project 1
UDB302	Development Process
UDB316	Cost Planning and Control
UDB410	Strategic Construction Management

Handbook

Year	2015
QUT code	UD40
CRICOS	056387B
Duration (full-time)	4 years
OP	10
Rank	80
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,800 per Study Period (48 credit points)
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	Professor Chris Eves; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Andrea Blake

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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.0

Course Update

As of 2014, this course will only be available for UD40 continuing students. New students should refer to [UD05 Bachelor of Property Economics](#)

For further assistance, please contact sef.enquiry@qut.edu.au

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.

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.

Special Course Requirements

You are required to obtain a minimum of 30 days approved professional work experience.

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.

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

Year 1

You are introduced to land management, sustainability, construction, economics, law and fundamental property valuation practice. You will have

Bachelor of Urban Development (Property Economics)

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.

Sample Structure

Course Updates

A number of changes have been made to Science and Engineering Faculty courses. From 2014, first year core units in UD40 Bachelor of Urban Development have been recoded, renamed or discontinued. To see how these changes affect you, please consult the unit replacement table below in conjunction with the course structure. Affected Study Plans are being updated to reflect the changes. Please contact the Faculty if you have any concerns.

[UD40 Unit Replacement Table](#) ►

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	

ENB100	Engineering and Sustainability
DEB100	Design and Sustainability
[UDB100 is replaced by ENB100/EGB100 or DEB100 from 2014]	
USB100	Understanding the Built Environment
[UDB101 is replaced by USB100 from 2014]	
UXB110	Residential Construction
[UDB110 is replaced by UXB110 from 2014]	
USB140	Imagine Property
[UDB140 is replaced by USB140 from 2014]	
Year 1 - Semester 2	
BEB112	Principle of Project Management
[UDB200 is replaced by BEB112 from 2014]	
LWS012	Urban Development Law
[UDB102 is replaced by LWS012 from 2014]	
BSB113	Economics
[UDB104 is replaced by BSB113 from 2014]	
USB141	Building Big
[UDB141 is replaced by USB141 from 2014]	
Year 2 - Semester 1	
UXB134	Land Use Planning
[UDB240 is replaced by UXB134 from 2015]	
USB243	Property Legislation
[UDB241 is replaced by USB243 from 2015]	
USB242	Experience Property
[UDB242 is replaced by USB242 from 2015]	
EFB223	Economics 2
[UDB243 is replaced by EFB223 from 2014]	
Year 2 - Semester 2	
USB246	Transaction Process
[UDB244 is replaced by USB246 from 2014]	
USB240	Market Analysis
[UDB245 is replaced by USB240 from 2015]	
USB245	Property Investment Analysis
[UDB246 is replaced by USB245 from 2014]	
USB343	Boutique Valuations
[UDB247 is replaced by USB343 from 2015]	
Year 3 - Semester 1	
UDB301	Research Methods
USB341	Money and Property
[UDB341 is replaced by USB341 from 2015]	
Second Major/Minor unit	
Second Major/Minor unit	
Year 3 - Semester 2	
UDB302	Development Process
USB244	Asset Performance
[UDB344 is replaced by USB244 from 2014]	
Second Major/Minor unit	
Second Major/Minor unit	
Year 4 - Semester 1	
UDB340	Agency Practice and Marketing
USB241	Money and Wealth
[UDB342 is replaced by USB241 from 2014]	
Second Major/Minor unit	
Second Major/Minor unit	
Year 4 - Semester 2	

SEB701	Work Integrated Learning 1
UDB202	Business Skills
Second Major/Minor unit	
Second Major/Minor unit	

Handbook

Year	2015
QUT code	UD40
CRICOS	056387B
Duration (full-time)	4 years
OP	8
Rank	85
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,800 per Study Period (48 credit points)
Total credit points	384
Credit points full-time sem.	48
Start months	February, July
Int. Start Months	February, July This course is available to international students who are eligible for a year or more of Advanced Standing (Credit).
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Professor Chris Eves; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Mr Jason Gray

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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.0

Course Update

As of 2014, this course will only be available for UD40 continuing students. New students should refer to [UD01 Bachelor of Urban Development \(Honours\)\(Quantity Surveying and Cost Engineering\)](#)

For further assistance, please contact sef.enquiry@qut.edu.au

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.

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.

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 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

Bachelor of Urban Development (Quantity Surveying)

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
- Project Collaboration Minor
- Collaborative Digital Design Minor

A minor from [anywhere in QUT](#).

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 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:

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
- Project Collaboration Minor
- Collaborative Digital Design Minor

A minor from [anywhere in QUT](#).

Sample Structure Course Updates

A number of changes have been made to Science and Engineering Faculty courses. From 2014, some units in UD40 Bachelor of Urban Development have been recoded, renamed or discontinued. To see how these changes affect you, please consult the unit replacement table below in conjunction with the course structure. Affected Study Plans are being updated to reflect the changes. Please contact the Faculty if you have any concerns.

[UD40 Unit Replacement Table](#) ►

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	
ENB100	Engineering and Sustainability
OR	
DEB100	Design and Sustainability
[UDB100 is replaced by ENB100/EGB100 or DEB100 from 2014]	
USB100	Understanding the Built Environment
[UDB101 is replaced by USB100 from 2014]	
UXB110	Residential Construction
[UDB110 is replaced by UXB110 from 2014]	
UXB112	Introduction to Structures
[UDB111 is replaced by UXB112 from 2014]	
Year 1 - Semester 2	
BEB112	Principle of Project Management
[UDB200 is replaced by BEB112 from 2014]	
BSB113	Economics
[UDB104 is replaced by BSB113 from 2014]	
UXB114	Integrated Construction
[UDB112 is replaced by UXB114 from 2014]	
UXB113	Measurement for

	Construction
[UDB113 is replaced by UXB113 from 2014]	
Year 2 - Semester 1	
UXB210	Commercial Construction
[UDB210 is replaced by UXB210 from 2015]	
UXB213	Advanced Measurement for Construction
[UDB212 is replaced by UXB213 from 2015]	
UXB214	Construction Estimating
[UDB213 is replaced by UXB214 from 2015]	
UXB121	Imagine Quantity Surveying and Cost Engineering
[UDB216 is replaced by UXB121 from 2015]	
Year 2 - Semester 2	
LWS012	Urban Development Law
[UDB102 is replaced by LWS012 from 2014]	
UDB202	Business Skills
UXB211	Building Services
[UDB215 is replaced by UXB211 from 2014]	
Second Major/Minor unit	
Year 3 - Semester 1	
UDB310	Highrise Construction and Engineering
UDB312	Contract Administration
UDB315	Measurement 3
Second Major/Minor unit	
Year 3 - Semester 2	
UDB314	Statutory Construction Law
UDB316	Cost Planning and Control
Second Major/Minor unit	
Second Major/Minor unit	
Year 4 - Semester 1	
SEB701	Work Integrated Learning 1
UDB301	Research Methods
Second Major/Minor unit	
Second Major/Minor unit	
Year 4 - Semester 2	
BEB801	Project 1
UDB302	Development Process
Second Major/Minor unit	
Second Major/Minor unit	

Handbook

Year	2015
QUT code	UD40
CRICOS	056387B
Duration (full-time)	4 years
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,800 per Study Period (48 credit points)
Total credit points	384
Credit points full-time sem.	48
Start months	February
Int. Start Months	February This course is available to international students who are eligible for a year or more of Advanced Standing (Credit).
Deferment	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Professor Chris Eves; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Mr Robert Webb

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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.0

Course Updates

This major has been discontinued and for continuing students only.

For further assistance, please contact sef.enquiry@qut.edu.au

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.

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.

Professional Recognition

The course is recognised by Queensland Surveyors Board and the Surveying and Spatial Science Institute of Australia (SSSI).

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.

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 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 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

Bachelor of Urban Development (Spatial Science)

'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.

Sample Structure

Course Updates

From 2014, some units in UD40 Bachelor of Urban Development have been recoded, renamed or discontinued. To see how these changes affect you, please consult the unit conversion table. Affected Study Plans are being updated to reflect the changes. Please contact the Faculty if you have any concerns.

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
UDB181	Geospatial Positioning and GPS
MAB120	Foundations of Calculus and Algebra
OR - in 2014 MAB120 is replaced by:	
MAB125	Foundations of Engineering Mathematics
Year 1 - Semester 2	
UDB200	Project Planning in Urban Development
UDB104	Urban Development Economics
UDB182	Surveying
MAB101	Statistical Data Analysis 1
OR - in 2014 MAB101 is replaced by:	
MAB233	Engineering Mathematics 3
Year 2 - Semester 1	
PCB172	Physics for Surveyors
UDB281	Geographic Information Systems
UDB283	Surveying Computations
UDB285	Cadastral Surveying
Year 2 - Semester 2	
MAB730	Surveying Mathematics 2
UDB102	Applied Law

UDB282	Remote Sensing
UDB284	Engineering Surveying
Year 3 - Semester 1	
UDB381	Geospatial Mapping
UDB383	Control Surveying and Analysis
UDB385	Cadastral and Land Management
UDB387	Spatial and Land Information Management
Year 3 - Semester 2	
UDB202	Business Skills
UDB302	Development Process
UDB382	Photogrammetric Mapping
UDB384	Geodesy
Year 4 - Semester 1	
SEB701	Work Integrated Learning 1
UDB301	Research Methods
UDB483	Global Positioning Principles and Practice
UDB485	Property Development Practice
Year 4 - Semester 2	
BEB801	Project 1
UDB388	Spatial Analysis Practice
UDB484	Topographic, Hydrographic and Mining Surveying
UDB486	Cadastral Practice

Handbook

Year	2015
QUT code	UD40
CRICOS	056387B
Duration (full-time)	4 years
OP	8
Rank	85
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,800 per Study Period (48 credit points)
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	Professor Chris Eves; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Paul Donehue

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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.0

Course Update

As of 2014, this course will only be available for UD40 continuing students. New students should refer to [UD01 Bachelor of Urban Development \(Honours\)\(Urban and Regional Planning\)](#)

For further assistance, please contact sef.enquiry@qut.edu.au

Professional Recognition

This course has received accreditation from the Planning Institute of Australia.

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.

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 fulfils 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.

URBAN AND REGIONAL PLANNING Minor Options

Choose two minors from the following options. Remember, one Minor must be from outside the UD40 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](#)

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, 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

Bachelor of Urban Development (Urban and Regional Planning)

- 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

- Sustainability Minor
- International Minor
- Indigenous Studies Minor
- Research Minor
- Project Collaboration Minor
- Collaborative Digital Design Minor

A minor from [anywhere in QUT](#).

Sample Structure Course Updates

A number of changes have been made to Science and Engineering Faculty courses. From 2014, some units in UD40 Bachelor of Urban Development have been recoded, renamed or discontinued. To see how these changes affect you, please consult the unit replacement table below in conjunction with the course structure. Affected Study Plans are being updated to reflect the changes. Please contact the Faculty if you have any concerns.

[UD40 Unit Replacement Table](#) ►

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	
ENB100	Engineering and Sustainability
OR	
DEB100	Design and Sustainability
[UDB100 is replaced by ENB100/EGB100 or DEB100 from 2014]	
USB100	Understanding the Built Environment
[UDB101 is replaced by USB100 from 2014]	
UXB131	Imagine Planning and Design
[UDB161 is replaced by UXB131 from 2014]	
UXB130	History of the Built Environment
[UXB130 is replaced by UXB130 from 2014]	
Year 1 - Semester 2	
BSB113	Economics
[UDB104 is replaced by BSB113 from 2014]	
UXB134	Land Use Planning
[UDB163 is replaced by UXB134 from 2014]	
UXB133	Urban Studies
[UDB164 is replaced by UXB133 from 2014]	
ENB200	Introducing Engineering Systems
[UDB200 is replaced by ENB200 from 2014]	
Year 2 - Semester 1	
UXB230	Site Planning
[UDB265 is replaced by UXB230 from 2015]	
UXB231	Planning Processes
[UDB266 is replaced by UXB231 from 2015]	
UDB281	Geographic Information Systems
Minor unit	
Year 2 - Semester 2	
[UDB102 is replaced by LSW012 from 2014]	
UDB202	Business Skills
UXB233	Planning Law

[UDB267 is replaced by UXB233 from 2015]	
Minor unit	
Year 3 - Semester 1	
UDB368	Urban Design
UDB369	Negotiation and Conflict Resolution
UDB381	Geospatial Mapping
Minor unit	
Year 3 - Semester 2	
BEB801	Project 1
UDB302	Development Process
UDB370	Environmental Planning and Management
Minor unit	
Year 4 - Semester 1	
SEB701	Work Integrated Learning 1
UDB301	Research Methods
UDB471	Urban Planning Practice
UDB473	Planning Theory and Ethics
Year 4 - Semester 2	
BEB802	Project 2
UDB472	Community Planning
UDB474	Regional Planning Practice
UDB475	Regional and Metropolitan Policy

Handbook

Year	2015
QUT code	UD40
CRICOS	056387B
Duration (full-time)	4 years
OP	99
Rank	1
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,800 per Study Period (48 credit points)
Start months	February Fixed closing date: The online questionnaire must be submitted by 16 November 2012.
Int. Start Months	February Fixed closing date: The online questionnaire must be submitted by 16 November 2012.
Course Coordinator	Science and Engineering Faculty - ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements 2013 questionnaires have closed

Questionnaires for the 2013 intake were due to completed on the 16 November 2012 and are now closed. If you had not submitted the questionnaire and you are considering applying to study in 2014 we recommend you read the following information as a guide only as it details requirements for entry in 2013 and these may change prior to the 2014 intake. You may also wish to consider applying for the standard entry program for 2013 entry.

Prerequisites

1. Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia.
2. Successful questionnaire

Additional entry requirements

In addition to applying through QTAC and you must also submit the [online Science and Engineering Dean's Scholars questionnaire](#) by the closing date.

Please note submitting the questionnaire with QUT is separate and in addition to listing the course as a preference with [QTAC](#). To successfully apply for entry into this course you are required to do both.

Closing date

Submit the [online questionnaire](#) with QUT by Friday, 16 November 2012.

Domestic Assumed knowledge

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

- 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 Entry requirements

Prerequisite

1. Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia.
2. Successful questionnaire

Closing date

Submit the questionnaire with QUT by Friday, 16 November 2012.

Additional entry requirements

In addition to applying through [QTAC](#) and you must also submit the online Science and Engineering Dean's Scholars questionnaire (available October) by the closing date.

Please note: Submitting the questionnaire with QUT is separate and in addition to listing the course as a preference with [QTAC](#). To successfully apply for entry into this course you are required to do both.

Applicants will be notified via email when the questionnaire is available.

Minimum English requirements

Students must meet the English proficiency requirements.

Please Note:

As of 2014, there will not be a separate QTAC entry point for the Science and Engineering Dean's Scholar Programs whilst the scholarship undergoes a further review.

Eligibility Criteria

Applicants must:

- have completed Year 12 in the year they apply for the program, or the previous year
- have received an OP 1 (or equivalent)
- be starting university for the first time
- demonstrate leadership experience and potential
- demonstrate community participation and engagement
- apply for and gain a place in the relevant Dean's Scholars Program

If studying at QUT International College (QUTIC), applicant must have a grade point average (GPA) of at least 6.5 for the two semesters immediately before they apply for the Dean's Scholars Program.

If expecting to get an OP of 1-3, applicant should apply for consideration.

Financial Support

Successful applicants will receive:

- A scholarship of up to \$6,000 per annum, usually payable in 2 instalments of \$3,000 by the 2nd week of semester 1 and semester 2 of each year. The scholarship would apply for the full-time duration of the undergraduate degree, contingent upon students meeting the conditions of the program (refer to Conditions below). The total value of the scholarship is limited to \$18,000 for the 3 year programs and \$24,000 for the 4 year programs.

Conditions

To keep a place in the Dean's Scholars program, students must:

- maintain enrolment full-time in the eligible undergraduate course
- graduate from the Bachelor of Engineering within 4 years of starting, except where you've taken a leave of absence approved by the Assistant Dean, or there are other extenuating circumstances
- maintain a grade point average (GPA) of at least 6.0 each semester
- meet the requirements of program completion (for example work experience and work integrated learning)
- pay any costs associated with their program that aren't covered by the scholarship, including additional and repeated units
- demonstrate adequate participation in extracurricular elements of the program.

Students can:

- apply to change their course structure under exceptional circumstances. Students must apply through their academic mentor or course coordinator, and receive prior written approval from the Assistance Dean International and Engagement.

- apply for [other scholarships and bursaries](#), including ones associated with travel, as long as they are allowed to under the conditions of the other

scholarship and under our [Industry sponsored student scholarships policy](#).

Course Structures

For full course structure details, please see [UD40 Bachelor of Urban Development](#)

Handbook

Year	2015
QUT code	IF21
CRICOS	020329J
Duration (full-time)	5 years
OP	7
Rank	87
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,000 per Study Period (48 credit points)
Total credit points	480
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	ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Jacob Coetzee (Electrical); Timothy Moroney (Mathematics)

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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

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 Mathematical Society of Australia, the Statistical Society of Australia, and the Australian Society of Operations Research.

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).

Domestic Course structure Course Design

Students are required to complete 480 credit points comprised of 288 credit points from the Bachelor of Engineering (Electrical) program and 192 credit points from the Bachelor of Mathematics program.

Engineering component:

- 8 Engineering Core units (96 credit points)
- 16 Major Core units (192 credit points)

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.

Mathematics component:

- 6 Core units (72 credit points), which are further divided into 4 Mathematics Core units (48 credit points), and 2 Core Option units (24 credit points) selected from an approved list.
- 10 Major Core units (120 credit points)

Mathematics Core Units

These units give you the grounding in mathematical theory and practice upon which your major units will build, and also provide an introductory taste of each of the three majors: applied and computational mathematics; decision science; and statistical science.

Core Option Units

You may choose from a wide variety of introductory units from other disciplines offered at QUT, or you may choose additional mathematics units. The additional mathematics units include a unit specially designed to assist students without a background of successful study in Mathematics C at high school; an alternative unit aimed at high achieving students that explores some interesting and unusual aspects of mathematics in some detail; and a unit introducing the field of computational and simulation science which combines mathematics, science and computing to simulate real-world problems.

International Course structure Course Design

Students are required to complete 480 credit points comprised of 288 credit points from the Bachelor of Engineering (Electrical) program and 192 credit points from the Bachelor of Mathematics program.

Engineering component:

- 8 Engineering Core units (96 credit points)
- 16 Major Core units (192 credit points)

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.

Mathematics component:

- 6 Core units (72 credit points), which are further divided into 4 Mathematics Core units (48 credit points), and 2 Core Option units (24 credit points) selected from an approved list.
- 10 Major Core units (120 credit points)

Mathematics Core Units

These units give you the grounding in mathematical

Bachelor of Engineering (Electrical)/Bachelor of Mathematics

theory and practice upon which your major units will build, and also provide an introductory taste of each of the three majors: applied and computational mathematics; decision science; and statistical science.

Core Option Units

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Sample Structure

Course Updates

A number of changes have been made to Science and Engineering Faculty courses. From 2015, units in the Engineering component of IF21 will progressively be recoded, renamed or discontinued (for students who commenced the course prior to 2015). To see how these changes affect you, please consult Engineering unit replacement table below in conjunction with the course structure. Affected Study Plans are being amended to reflect the changes. Please contact the Faculty if you have any concerns.

Engineering Unit Replacement Table

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](#)
- [NOTES:](#)
- [Electrical Engineering Selectives](#)

Code	Title
Year 1, Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MXB102	Abstract Mathematical Reasoning
Maths Core Options Unit**	
OR	
MXB101	Probability and Stochastic Modelling 1
OR	
MXB103	Introductory Computational Mathematics
Year 1, Semester 2	
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
MXB105	Calculus of One and Two Variables
MXB106	Linear Algebra and Differential Equations

(PLEASE NOTE: you will need to nominate your Maths major in your Study Plan to select MXB105 and MXB106. These units are common to all three Maths majors)

Year 2, Semester 1	
ENB110	Engineering Statics and Materials
ENB250	Electrical Circuits
MXB101	Probability and Stochastic Modelling 1
OR Maths Core Options Unit** (select if completed MXB101 in first year)	
MXB103	Introductory Computational Mathematics
OR Maths Core Options Unit** (select if completed MXB103 in first year)	
Year 2, Semester 2	
ENB150	Introducing Engineering Design
Note: ENB150 is replaced by EGB111 (sem 1 unit) from 2015 -	
EGB111	Foundation of Engineering Design
ENB242	Introduction To Telecommunications
MXB107	Statistical Models for Data: Relationships and Effects
Maths Core Options Unit**	
Year 3, Semester 1	
ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MXB201	Advanced Linear Algebra
MXB221	Ordinary Differential Equations
Year 3, Semester 2	
ENB243	Linear Circuits and Systems
ENB245	Introduction To Design and Professional Practice
MXB202	Advanced Calculus
MXB222	Computational Linear Algebra
Year 4, Semester 1	
ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
MXB321	Applied Transport Theory
Year 4, Semester 2	
CAB202	Microprocessors and Digital Systems
ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
Electrical Engineering Selective	
Year 5, Semester 1	
ENB241	Software Systems Design
OR Electrical Engineering Selective	
ENB346	Digital Communications
BEB801	Project 1
MXB322	Partial Differential Equations
Year 5, Semester 2	
SEB701	Work Integrated Learning 1
BEB802	Project 2
MXB323	Dynamical Systems
MXB324	Computational Fluid Dynamics
NOTES:	
**Only 2 Option units may be taken in these 4 unit-slots.	
Electrical Engineering Selectives	

ENB339	Introduction to Robotics
ENB441	Applied Image Processing
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 Updates

A number of changes have been made to Science and Engineering Faculty courses. From 2015, units in the Engineering component of IF21 will progressively be recoded, renamed or discontinued (for students who commenced the course prior to 2015). To see how these changes affect you, please consult Engineering unit replacement table below in conjunction with the course structure. Affected Study Plans are being amended to reflect the changes. Please contact the Faculty if you have any concerns.

Engineering Unit Replacement Table

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](#)
- [NOTES:](#)
- [Electrical Engineering Selectives](#)

Code	Title
Year 1, Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MXB102	Abstract Mathematical Reasoning
Maths Core Options Unit**	
OR	
MXB101	Probability and Stochastic Modelling 1
OR	
MXB103	Introductory Computational Mathematics
Year 1, Semester 2	
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
MXB105	Calculus of One and Two Variables
MXB106	Linear Algebra and Differential Equations
(PLEASE NOTE: you will need to nominate your Maths major in your Study Plan to select MXB105 and MXB106. These units are common to all three Maths majors)	
Year 2, Semester 1	
ENB110	Engineering Statics and

Bachelor of Engineering (Electrical)/Bachelor of Mathematics

	Materials
ENB250	Electrical Circuits
MXB101	Probability and Stochastic Modelling 1
OR Maths Core Options Unit** (select if completed MXB101 in first year)	
MXB103	Introductory Computational Mathematics
OR Maths Core Options Unit** (select if completed MXB103 in first year)	
Year 2, Semester 2	
ENB150	Introducing Engineering Design
Note: ENB150 is replaced by EGB111 (sem 1 unit) from 2015 -	
EGB111	Foundation of Engineering Design
ENB242	Introduction To Telecommunications
MXB107	Statistical Models for Data: Relationships and Effects
Maths Core Options Unit**	
Year 3, Semester 1	
ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MXB201	Advanced Linear Algebra
MXB231	Financial Mathematics 1
Year 3, Semester 2	
ENB243	Linear Circuits and Systems
ENB245	Introduction To Design and Professional Practice
MXB202	Advanced Calculus
MXB232	Operations Research 1
Year 4, Semester 1	
ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
MXB331	Financial Mathematics 2
Year 4, Semester 2	
CAB202	Microprocessors and Digital Systems
ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
Electrical Engineering Selective	
Year 5, Semester 1	
ENB241	Software Systems Design
OR Electrical Engineering Selective	
ENB346	Digital Communications
BEB801	Project 1
MXB332	Operations Research 2
Year 5, Semester 2	
SEB701	Work Integrated Learning 1
BEB802	Project 2
MXB333	Financial Data Analysis and Forecasting
MXB334	Operations Research 3
NOTES:	
**Only 2 Option units may be taken in these 4 unit-slots.	
Electrical Engineering Selectives	
ENB339	Introduction to Robotics
ENB441	Applied Image Processing
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 Updates

A number of changes have been made to Science and Engineering Faculty courses. From 2015, units in the Engineering component of IF21 will progressively be recoded, renamed or discontinued (for students who commenced the course prior to 2015). To see how these changes affect you, please consult Engineering unit replacement table below in conjunction with the course structure. Affected Study Plans are being amended to reflect the changes. Please contact the Faculty if you have any concerns.

[Engineering Unit Replacement Table](#)

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](#)
- **NOTES:**
- [Electrical Engineering Selectives](#)

Code	Title
Year 1, Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MXB102	Abstract Mathematical Reasoning
Maths Core Options Unit**	
OR	
MXB101	Probability and Stochastic Modelling 1
OR	
MXB103	Introductory Computational Mathematics
Year 1, Semester 2	
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
MXB105	Calculus of One and Two Variables
MXB106	Linear Algebra and Differential Equations
(PLEASE NOTE: you will need to nominate your Maths major in your Study Plan to select MXB105 and MXB106. These units are common to all three Maths majors)	
Year 2, Semester 1	
ENB110	Engineering Statics and Materials
ENB250	Electrical Circuits
MXB101	Probability and Stochastic Modelling 1
OR Maths Core Options Unit** (select if completed MXB101 in first year)	

MXB103	Introductory Computational Mathematics
OR Maths Core Options Unit** (select if completed MXB103 in first year)	
Year 2, Semester 2	
ENB150	Introducing Engineering Design
Note: ENB150 is replaced by EGB111 (sem 1 unit) from 2015 -	
EGB111	Foundation of Engineering Design
ENB242	Introduction To Telecommunications
MXB107	Statistical Models for Data: Relationships and Effects
Maths Core Options Unit**	
Year 3, Semester 1	
ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MXB201	Advanced Linear Algebra
MXB241	Probability and Stochastic Modelling 2
Year 3, Semester 2	
ENB243	Linear Circuits and Systems
ENB245	Introduction To Design and Professional Practice
MXB202	Advanced Calculus
MXB242	Regression and Design
Year 4, Semester 1	
ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
MXB341	Statistical Inference
Year 4, Semester 2	
CAB202	Microprocessors and Digital Systems
ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
Electrical Engineering Selective	
Year 5, Semester 1	
ENB241	Software Systems Design
OR Electrical Engineering Selective	
ENB346	Digital Communications
BEB801	Project 1
MXB342	Statistical Techniques
Year 5, Semester 2	
SEB701	Work Integrated Learning 1
BEB802	Project 2
MXB343	Modelling Dependent Data
MXB344	Modelling Non-Normal Data with Generalised Linear Models
NOTES:	
**Only 2 Option units may be taken in these 4 unit-slots.	
Electrical Engineering Selectives	
ENB339	Introduction to Robotics
ENB441	Applied Image Processing
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

Handbook

Year	2015
QUT code	IT07
CRICOS	063028M
Duration (full-time)	4 years
OP	12
Rank	75
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
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	Mr Mike Roggenkamp (Information Technology Major), Dr Taizan Chan (Corporate Systems Management Major); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

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

Course Update

This course is currently under review. The course structure is being redeveloped and is subject to university approval.

For course updates please visit www.qut.edu.au/coursechanges

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.

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.

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

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](#).

Sample Structure Semesters

- [IT07 Course Outline](#)
- [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
IT07 Course Outline	
Year 1, Semester 1	
INB120	Corporate Systems
INB122	Organisational Databases
INB101	Impact of IT
INB102	Emerging Technology
Year 1, Semester 2	
INB123	Project Management Practice
BSB115	Management
INB103	Industry Insights
INB104	Building IT Systems
Year 2, Semester 1	
INB220	Business Analysis
BSB126	Marketing
IT Breadth Option	
IT Breadth Option	
Year 2, Semester 2	
INB124	Information Systems

Bachelor of Corporate Systems Management/Bachelor of Information Technology

	Development
MGB223	Entrepreneurship and Innovation
IT Breadth Option	
IT Breadth Option	
Year 3, Semester 1	
INB322	Information Systems Consulting
INB221	Technology Management
IFB299	Application Design and Development
[INB201 replaced by IFB299 in 2015.]	
IT Specialisation Option	
Year 3, Semester 2	
INB300	Professional Practice in IT
INB313	Electronic Commerce Site Development
General Elective	
IT Specialisation Option	
Year 4, Semester 1	
IAB202	Business of Information Technology
[INB301 replaced by IAB202 in 2015]	
IAB350	Enterprise Systems Configuration
OR	
IAB351	Business in the Cloud
[INB312 replaced by IAB350/IAB351 option in 2015]	
INB325	Corporate Systems Management Project
IT Specialisation Option	
Year 4, Semester 2	
IAB203	Business Process Modelling
[INB320 replaced by IAB203 in 2015]	
INB302	IT Capstone Project
IT Specialisation Option	
IT Specialisation Option	

Handbook

Year	2015
QUT code	IT09
CRICOS	063029K
Duration (full-time)	4 years
OP	12
Rank	75
OP Guarantee	Yes
Campus	Kelvin Grove, Gardens Point
Domestic fee (indicative)	2015: CSP \$4,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
Total credit points	
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 (Games), Dr Taizan Chan (Corp. Systems); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

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 Update

This course is currently under review. The course structure is being redeveloped and is subject to university approval.

For course updates please visit www.qut.edu.au/coursechanges

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 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](#).

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	
INB120	Corporate Systems
INB103	Industry Insights
INB180	Computer Games Studies
INB182	Introducing Design
Year 1, Semester 2	
BSB115	Management
INB104	Building IT Systems
INB123	Project Management Practice
INB181	Introduction to Games Production
Year 2, Semester 1	
INB101	Impact of IT
INB122	Organisational Databases
Games & Interactive Entertainment Major Unit	
Games & Interactive Entertainment Major Unit	
Year 2, Semester 2	
INB124	Information Systems Development
BSB126	Marketing
Games & Interactive Entertainment Major Unit	
Games & Interactive Entertainment Major Unit	
Year 3, Semester 1	
IAB204	Business Analysis
[INB220 replaced by IAB204 in 2015.]	
INB221	Technology Management
Games & Interactive Entertainment Major Unit	
Games & Interactive Entertainment Major Unit	
Year 3, Semester 2	
MGB223	Entrepreneurship and Innovation
INB301	The Business of IT
Games & Interactive Entertainment Major Unit	
Games & Interactive Entertainment Major Unit	
Year 4, Semester 1	
INB322	Information Systems Consulting
INB325	Corporate Systems Management Project
INB379	Game Project Design
IAB350	Enterprise Systems Configuration
OR	
IAB351	Business in the Cloud
[INB312 replaced by IAB350/IAB351 option in 2015. IAB350 offered in Semester 2.]	
Year 4, Semester 2	
INB380	Games Project

Bachelor of Corporate Systems Management/Bachelor of Games and Interactive Entertainment

IAB203	Business Process Modelling
[INB320 replaced by IAB203 in 2015. IAB203 offered in Semester 1.]	
INB313	Electronic Commerce Site Development
Games & Interactive Entertain Major Unit	

Handbook

Year	2015
QUT code	IX02
CRICOS	020322E
Duration (full-time)	4 years
OP	13
Rank	73
OP Guarantee	Yes
Campus	Kelvin Grove, Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$15,400 per Study Period (48 credit points)
Total credit points	432
Credit points full-time sem.	48 (semesters 1, 6-8), 60 (semesters 2-5)
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 Marion Bateson (Science); Dr Alberto Bellocchi(Secondary). For science enquiries email: sef.enquiry@qut.edu.au. For education enquires email: educationenq@qut.edu.au or phone 3138 8947
Discipline Coordinator	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)

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

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](#)

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 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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

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

Working With Children Check

As required by the Queensland Public Safety Business Agency, student teachers must undergo a criminal history check and be issued with a Suitability Card (Blue Card) by the Agency.

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 Agency to issue the Card.

The application form is available at: student.qut.edu.au/studying/jobs-and-work-experience/work-experience-and-placements/blue-cards.

Field Studies Units will be taken in Queensland schools and settings.

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.

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

- [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, 6TP4](#)
- [Year 4, Semester 2](#)

Code	Title
Year 1, Semester 1	
	Science Major Unit
	Science Major Unit
	Science Major Unit
	Science Major Unit
Year 1, Semester 2	
	Science Major Unit
	Science Major Unit
	Science Major Unit
	Science Major Unit
	Science Major Unit
Year 2, Semester 1	
EDB002	Teaching and Learning Studies 2: Development and Learning
Curriculum Studies 1X (See List 1)	
EDB031	Secondary Field Studies 1
Please note: The teaching prac component of EDB031 will be organised to commence as soon as schools return for Term 1 in late January/ early February. 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.	
	Science Major Unit
	Science Major Unit
Year 2, Semester 2	
	Science, Technology and Society
	Science Major Unit
	Science Major Unit
	Science Major Unit
	Science Major Unit
Year 3, Semester 1	
Curriculum Studies 1Y (See List 1)	
	Science Major Unit
	Science Major Unit
	Science Major Unit
	Science Major Unit
Year 3, Semester 2	
EDB003	Teaching and Learning Studies 3: Practising Education
EDB032	Secondary Field Studies 2
Curriculum Studies 2X (See List 2)	
Curriculum Studies 2Y (See List 2)	
Year 4, Semester 1	
EDB004	Teaching and Learning Studies 4: Inclusive Education
EDB033	Secondary Field Studies 3
Curriculum Studies 3X (See List 3)	
Curriculum Studies 3Y (See List 3)	
Year 4, 6TP4	
EDB005	Teaching and Learning Studies 5: Professional Work of Teachers
EDB007	Culture Studies: Indigenous Education
students must enrol in the 6TP4 mode for both EDB005 (internal) and EDB007 (external). The 6TP4 teaching period commences early July, running until mid August.	
EDB005 is delivered through the Stepping Out Conference, which runs over 3 days in 'O' Week of Semester 2 (dates TBA).	
Year 4, Semester 2	

Please note that successful completion of all other coursework is required before students can commence the final Field Studies EDB034 and Internship EDB035.

EDB034	Secondary Field Studies 4
EDB035	Internship (Secondary)

Handbook

Year	2015
QUT code	IX14
CRICOS	037540M
Duration (full-time)	4 years
OP	13
Rank	73
OP Guarantee	Yes
Campus	Kelvin Grove, Gardens Point
Domestic fee (indicative)	2015: CSP \$4,100 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,900 per Study Period (48 credit points)
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	Dr Marion Bateson (Science). For Education contact Student Affairs 07 3138 3947, or educationenq@qut.edu.au. For course progression advice for the Education component contact Nikki Kyle on 07 3138 3212 or nm.kyle@qut.edu.au.
Discipline Coordinator	Education Course Coordinator Dr Lenore Adie. Science Discipline Coordinators: Dr Pery 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)

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)).

International 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](#)

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

DISCONTINUED COURSE

This course has been discontinued. The final intake was semester 1, 2012.

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.

Enrolling

You have 11 years to complete the Bachelor of Applied Science/Bachelor of Education (Primary), including any approved leave of absence. It is imperative that you enrol in both semester 1 and semester 2 units at the start of each year.

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.

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.

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.

Designated Units

Field Studies units are designated units. Students who do not successfully complete the requirements of practicum units will have their progress in the course reviewed. Please refer to the unit outlines for more information and/or the Student Services website

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

The IX14 Bachelor of Applied Science/Bachelor of Education (Primary) course is in the process of being discontinued at QUT.

The education units in this course are being phased out on a progressive basis, which means that if you are an out-of-step student you will need to seek course progression advice from the Faculty of Education Studies Affairs Office and check the availability of units that you need to complete your course.

From 2014 some of the education units in the IX14 Bachelor of Applied Science/Bachelor of Education (Primary) course have been re-coded, or replaced with alternative units. If you are undertaking the standard course progression please refer to the IX14 Bachelor of Applied Science/Bachelor of Education (Primary) course progression table below.

[IX14 Bachelor of Applied Science/Bachelor of Education \(Primary\) course progression table](#)

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, 6TP4 \(early July to mid August\)](#)
- [Year 4, Semester 2](#)

Code	Title
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 must contact Student Affairs for progression advice, nm.kyle@qut.edu.au.	
All other course requirements must have been successfully completed before commencing EDB024 Primary Field Studies 4: Professional Work of Teachers - Induction into the Field and EDB025 Internship (Primary) in your final semester of study. This is a University and Queensland College of Teachers requirement.	
Overload - The Faculty of Education permits you to overload to 60 credit points (ie standard program plus one more unit) without faculty approval only if your grade point average is 4.0 or higher. If you intend to overload you should seek progression advice from the Course Administration Officer.	
Underload - The Faculty of Education permits you to underload to 36 credit points (ie 3 units in a semester) without faculty approval. If you intend to underload you should seek progression advice from the Course Administration Officer.	

Students must have a valid Bluecard to be eligible for Field Studies units.

Year 1, Semester 1	
EDB002	Teaching and Learning Studies 2: Development and Learning
Science Major Unit	
Science Major Unit	
Science Major Unit	
Year 1, Semester 2	
EDB021	Primary Field Studies 1: Development and Learning in the Field
Designated Unit: EDB021	
Science Major Unit	
Science Major Unit	
Science Major Unit	
Year 2, Semester 1	
Science Major Unit	
Science Major Unit	
Science Major Unit	
CRB020	Mathematics Curriculum and Pedagogies
Previously MDB120 Mathematics Curriculum and Pedagogies	
Year 2, Semester 2	
Science Major Unit	
Science Major Unit	
Science Major Unit	
CRB906	Teaching Primary SOSE
Previously CLB008 Teaching Primary SOSE	
Year 3, Semester 1	
Science Major Unit	
Science Major Unit	
Science Major Unit	
Science Major Unit	
Year 3, Semester 2	
CRB904	Teaching Reading and Writing
Previously CLB006 Teaching Reading and Writing	
EDB003	Teaching and Learning Studies 3: Practising Education
EDB022	Primary Field Studies 2: Practising Education in the Field
Designated Unit: EDB022	
HMB300	Teaching Primary HPE
Year 4, Semester 1	
EDB004	Teaching and Learning Studies 4: Inclusive Education
EDB023	Primary Field Studies 3: Inclusive Educational Practices
Designated Unit: EDB023	
KKB202	Teaching Primary Dance and Drama
CRB937	Teaching Primary Science
Previously MDB006 Teaching Primary Science	
From 2015 students who have not completed CRB937/MDB006 will enrol in CRB002 Science in Primary Education.	
Year 4, 6TP4 (early July to mid August)	
Units offered in the 6TP4 teaching period are subject to their own teaching and census dates refer to http://www.student.qut.edu.au/about/key-dates-and-academic-calendar/key-dates .	
EDB005	Teaching and Learning Studies 5: Professional Work of Teachers
EDB005 is offered via the Stepping Out Conference	
CRB935	Teaching Primary ICT
Previously MDB004 Teaching Primary ICT	
Year 4, Semester 2	

Bachelor of Applied Science/Bachelor of Education (Primary)

EDB024	Primary Field Studies 4: Professional Work of Teachers - Induction into the Field
Designated Unit: EDB024	
EDB025	Internship (Primary)
Please note that successful completion of all other coursework is required before students can commence the final Internship unit EDB025.	
Designated Unit: EDB025	

Handbook

Year	2015
QUT code	IX22
CRICOS	059595C
Duration (full-time)	4 years
OP	8
Rank	84
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$5,000 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
Total credit points	384
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	Mr Mike Roggenkamp; Co-ordinator Information Technology ; 3138 4249; m.roggenkamp@qut.edu.au
Discipline Coordinator	Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Radhika Lahiri (Economics); Dr Mark Doolan (Finance); Dr Adele Bish (Human Resource Management); Mr Michael Cox (International Business); Dr Mervyn Morris (Management); Mr Bill Proud (Marketing); and Dr Kim Johnston (Public Relations) bus@qut.edu.au

Domestic Assumed knowledge

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

- Maths A, B or C
- English

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

International Subject prerequisites

- English

English (4,SA) and Maths A, B or C (4,SA) 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 Overview

This double degree will give you a broad base of commercial knowledge in business and information technology. Business is highly dependent on information technology infrastructure, so having the expertise in both makes you more attractive to employers looking for multidisciplinary staff.

Businesses look for staff who can communicate well from both the business and information technology disciplines, so having the skills and knowledge across both gives you a competitive edge over other graduates. You will have the opportunity to complement your information technology studies in either information systems or computer science with a business major in accountancy, advertising, economics, finance, human resource management, international business, management, marketing or public relations.

Career Outcomes

This double degree will give you the particular skills to acquire a role requiring knowledge in both business and information technology. These include business and systems analyst, systems manager, product manager for an information technology product, team leader for multidisciplinary staff, pre-sales consulting, after-sales support, technical manager or consultant. Future career prospects include chief financial officer, chief information officer and chief technical officer.

Study Areas

IX22 has nominated majors in Information Systems and Computer Science in the Information Technology component of the degree. There will now be a Study Area A shown on a graduate's parchment.

Professional Recognition

The Bachelor of Business degree may, subject to choice of major, allow graduates to satisfy the academic requirements for membership to a number

of professional bodies. Further information is available from the discipline schools.

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

Domestic Course structure Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor of Information Technology program and 192 credit points from the Bachelor of Business program.

Business component:

- 8 Business School Core units (96 credit points) *
- 8 Major Core units (96 credit points)

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

Information Technology component:

- Six (6) Core IT units (72 credit points - 48cp + 24cp Core options)
- Ten (10) Major Core units (120 credit points)

International Course structure Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor of Information Technology program and 192 credit points from the Bachelor of Business program.

Business component:

- 8 Business School Core units (96 credit points) *
- 8 Major Core units (96 credit points)

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

Information Technology component:

- Six (6) Core IT units (72 credit points - 48cp + 24cp Core options)
- Ten (10) Major Core units (120 credit points)

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	
IT Core Unit	
IT Core Unit	
Business 1st year	
Business 1st year	
Year 1, Semester 2	
IT Core Unit	
IT Core Unit	
Business 1st year	
Business 1st year	
Year 2, Semester 1	
IT Core Unit Option	

Bachelor of Business/Bachelor of Information Technology

IT Core Unit Option
Business Unit
Business Unit
Year 2, Semester 2
IT Major Unit
IT Major Unit
Business Major Unit
Business Major Unit
Year 3, Semester 1
IT Major Unit
IT Major Unit
Business Major Unit
Business Major Unit
Year 3, Semester 2
IT Major Unit
IT Major Unit
Business Major Unit
Business Major Unit
Year 4, Semester 1
IT Major Unit
IT Major Unit
Business Major Unit
Business Major Unit
Year 4, Semester 2
IT Major Unit
IT Major Unit
Business Major Unit
Business Major Unit

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
CAB201	Programming Principles
CAB202	Microprocessors and Digital Systems
Year 3, Semester 1	
CAB203	Discrete Structures
CAB302	Software Development
Year 3, Semester 2	
CAB303	Networks
IFB299	Application Design and Development
Year 4, Semester 1	
CAB301	Algorithms and Complexity
CAB398	Capstone Project (Phase 1)

Year 4, Semester 2	
CAB399	Capstone Project (Phase 2)
Select one of:	
CAB401	High Performance and Parallel Computing
CAB402	Programming Paradigms
CAB403	Systems Programming

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
IAB201	Modelling Information Systems
IAB202	Business of Information Technology
Year 3, Semester 1	
IAB203	Business Process Modelling
IAB204	Business Analysis
Year 3, Semester 2	
IAB205	Corporate Systems
IFB299	Application Design and Development
Year 4, Semester 1	
IAB398	Capstone Project Part 1 - Design
Select one of:	
IAB302	Information Systems Consulting
IAB303	Business Intelligence
IAB304	Project Management
Year 4, Semester 2	
IAB399	Capstone Project
IAB301	Enterprise Architecture

Handbook

Year	2015
QUT code	IX23
CRICOS	078352J
Duration (full-time)	4 years
OP	8
Rank	84
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
Total credit points	384
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 Graham Johnson (Science); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au; or, Director of Studies, QUT Business School, bus@qut.edu.au
Discipline Coordinator	Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Radhika Lahiri (Economics); Dr Mark Doolan (Finance); Dr Adele Bish (Human Resource Management); Mr Michael Cox (International Business); Dr Mervyn Morris (Management); Mr Bill Proud (Marketing); and Dr Kim Johnston (Public Relations); Dr Marion Bateson (Biological Science); Associate Professor Eric Waclawik (Chemistry); Dr Jessica Trofimovs (Earth Science); Dr Andrew Baker (Environmental Science); and Dr Jamie Trapp (Physics). Science and Engineering: sef.enquiry@qut.edu.au; Business: bus@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 (4, SA). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or 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.

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

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.

Aim

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.

Career outcomes

By combining your science studies with business you will develop the entrepreneurial skills necessary to sell your abilities to a range of employers. As well as the range of science-based careers available such as a scientific modeller, engineering software developer, scientific programmer, and computational scientist you could expect to gain employment as a consultant, marketer, or project manager within firms developing and taking scientific research to the marketplace.

Professional membership

Both degrees allow you to satisfy the requirements of membership of the relevant professional body for your chosen majors.

Non-standard attendance

Field work is a requirement of some areas of science.

Domestic Course structure

Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor

Science program and 192 credit points from the Bachelor of Business program.

Business component:

- 8 Business School Core units (96 credit points) *
- 8 Major Core units (96 credit points)

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

International Course structure

Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor Science program and 192 credit points from the Bachelor of Business program.

Business component:

- 8 Business School Core units (96 credit points) *
- 8 Major Core units (96 credit points)

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

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	
SEB104	Grand Challenges in Science
SEB113	Quantitative Methods in Science
SEB115	Experimental Science 1
SEB116	Experimental Science 2
[As of 2015, 1st year units SEB101, SEB102 and SEB114 have been replaced by SEB104, SEB115 and SEB116.]	
Year 1, Semester 2	
Business Unit	
Business Unit	
Science Major Unit	
Science Major Unit	
Year 2, Semester 1	
Business Unit	
Business Unit	
Science Major Unit	
Science Major Unit	
Year 2, Semester 2	
Science Major Unit	
Science Major Unit	
Science Core Options	
Science Core Options	
Year 3, Semester 1	
Business Unit	
Business Unit	
Science Major Unit	

Bachelor of Science/Bachelor of Business

Science Major Unit
Year 3, Semester 2
Business Unit
Business Unit
Science Major Unit
Science Major Unit
Year 4, Semester 1
Business Unit
Business Unit
Business Unit
Business Unit
Year 4, Semester 2
Business Unit
Business Unit
Business Unit
Business Unit

Handbook

Year	2015
QUT code	IX28
CRICOS	061649J
Duration (full-time)	5 years
OP	8
Rank	84
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,200 per Study Period (48 credit points)
Total credit points	
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	Dr R.Mahalinga-Iyer (Engineering); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au; or, Director of Studies, QUT Business School; email: bus@qut.edu.au
Discipline Coordinator	Professor Manicka Dhanasekar (Sekar) (Civil); Dr Jacob Coetzee (Electrical); Professor Ted Steinberg (Mechanical); Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Radhika Lahiri (Economics); Dr Mark Doolan (Finance); Dr Adele Bish (Human Resource Management); Mr Michael Cox (International Business); Dr Mervyn Morris (Management); Mr Bill Proud (Marketing); and Dr Kim Johnston (Public Relations) Engineering: 3138 8822; Business: 3138 2050 Engineering: sef.enquiry@qut.edu.au; Business: bus@qut.com

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 requires 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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

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, finance, economics, 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.

Domestic Course structure

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.

The business component consists of the 96 credit point Business School core units (eight units) together with a 96 credit point major (eight units) in one of the following:

- Accountancy*
- Advertising
- Economics
- Finance
- Human resource management
- International business
- Management
- Marketing
- Public relations.

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

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.

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

Sample Structure Course Updates

A number of changes have been made to Science

Bachelor of Business/Bachelor of Engineering (Civil, Electrical or Mechanical)

and Engineering Faculty courses. From 2015, units in the Engineering component of IX28 will progressively be recoded, renamed or discontinued (for students who commenced the course prior to 2015). To see how these changes affect you, please consult Engineering unit replacement table below in conjunction with the course structure. Affected Study Plans are being amended to reflect the changes. Please contact the Faculty if you have any concerns.

Engineering Unit Replacement Table

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](#)

Code	Title
Year 1, Semester 1	
ENB110	Engineering Statics and Materials
MZB125	Introductory Engineering Mathematics
[MAB125 replaced by MZB125 in 2015]	
OR	
MZB126	Engineering Computation
[MAB126 replaced by MZB126 in 2015]	
Business Unit	
Business Unit	
Year 1, Semester 2	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
MZB126	Engineering Computation
[MAB126 replaced by MZB126 in 2015]	
OR	
MAB127	Mathematics for Engineering 2
Business Unit	
Business Unit	
Year 2, Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
ENB270	Engineering Mechanics of Materials
ENB273	Civil Materials
Year 2, Semester 2	
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 from Semester 2, 2015]	
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
Business Unit	
Business Unit	
Year 3, Semester 1	
EGB111	Foundation of Engineering Design
ENB150 is replaced by EGB111 (sem 1 unit) from 2015	

2015	
ENB272	Geotechnical Engineering 1
Business Unit	
Business Unit	
Year 3, Semester 2	
ENB275	Project Engineering 1
ENB276	Structural Engineering 1
ENB280	Hydraulic Engineering
ENB371	Geotechnical Engineering 2
Year 4, Semester 1	
ENB372	Design and Planning of Highways
ENB375	Structural Engineering 2
Business Unit	
Business Unit	
Year 4, Semester 2	
ENB376	Transport Engineering
Business Unit	
Business Unit	
Business Unit	
Year 5, Semester 1	
BEB801	Project 1
ENB378	Water Engineering
ENB471	Design of Concrete Structures and Foundations
Business Unit	
Year 5, Semester 2	
SEB701	Work Integrated Learning 1
ENB476	Civil Engineering Design Project
Business Unit	
Business Unit	

Course Updates

A number of changes have been made to Science and Engineering Faculty courses. From 2015, units in the Engineering component of IX28 will progressively be recoded, renamed or discontinued (for students who commenced the course prior to 2015). To see how these changes affect you, please consult Engineering unit replacement table below in conjunction with the course structure. Affected Study Plans are being amended to reflect the changes. Please contact the Faculty if you have any concerns.

Engineering Unit Replacement Table

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](#)
- [Electrical Engineering Selectives](#)

Code	Title
Year 1, Semester 1	
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
MZB125	Introductory Engineering Mathematics

[MAB125 replaced by MZB125 in 2015]	
OR	
MZB126	Engineering Computation
[MAB126 replaced by MZB126 in 2015]	
Business Unit	
Business Unit	
Year 1, Semester 2	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
MZB126	Engineering Computation
[MAB126 replaced by MZB126 in 2015]	
OR	
MAB127	Mathematics for Engineering 2
Business Unit	
Business Unit	
Year 2, Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
ENB110	Engineering Statics and Materials
ENB250	Electrical Circuits
MAB127	Mathematics for Engineering 2
OR	
MAB233	Engineering Mathematics 3
Year 2, Semester 2	
Engineering Unit Option	
[Engineering Unit Option replaced ENB200 in 2015. See Engineering Unit Option List]	
Business Unit	
Business Unit	
Business Unit	
Year 3, Semester 1	
EGB111	Foundation of Engineering Design
ENB150 is replaced by EGB111 (sem 1 unit) from 2015	
ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
Business Unit	
Year 3, Semester 2	
ENB242	Introduction To Telecommunications
ENB243	Linear Circuits and Systems
CAB202	Microprocessors and Digital Systems
[ENB244 replaced by CAB202 in 2014]	
ENB245	Introduction To Design and Professional Practice
Year 4, Semester 1	
ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
OR	
MAB233	Engineering Mathematics 3
Business Unit	
Business Unit	
Year 4, Semester 2	
ENB345	Advanced Design and Professional Practice

Bachelor of Business/Bachelor of Engineering (Civil, Electrical or Mechanical)

Business Unit	
Business Unit	
Business Unit	
Year 5, Semester 1	
SEB701	Work Integrated Learning 1
BEB801	Project 1
ENB340	Power Systems and Machines
OR	
Electrical Engineering Selective	
Business Unit	
Year 5, Semester 2	
BEB802	Project 2
ENB344	Industrial Electronics
Business Unit	
Business Unit	
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 Updates

A number of changes have been made to Science and Engineering Faculty courses. From 2015, units in the Engineering component of IX28 will progressively be recoded, renamed or discontinued (for students who commenced the course prior to 2015). To see how these changes affect you, please consult Engineering unit replacement table below in conjunction with the course structure. Affected Study Plans are being amended to reflect the changes. Please contact the Faculty if you have any concerns..

[Engineering Unit Replacement Table](#)

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](#)
- [Mechanical Engineering Selectives](#)

Code	Title
Year 1, Semester 1	
ENB110	Engineering Statics and Materials
MZB125	Introductory Engineering Mathematics
[MAB125 replaced by MZB125 in 2015]	
OR	
MZB126	Engineering Computation
[MAB126 replaced by MZB126 in 2015]	
Business Unit	
Business Unit	
Year 1, Semester 2	
EGB120	Foundations of Electrical

Engineering	
[ENB120 replaced by EGB120 in 2015]	
MZB126	Engineering Computation
[MAB126 replaced by MZB126]	
OR	
MAB127	Mathematics for Engineering 2
Business Unit	
Business Unit	
Year 2, Semester 1	
EGB100	Engineering Sustainability and Professional Practice
[ENB100 replaced by EGB100 in 2015]	
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
ENB212	Strength of Materials
MAB127	Mathematics for Engineering 2
OR	
MAB233	Engineering Mathematics 3
Year 2, Semester 2	
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
Business Unit	
Business Unit	
Business Unit	
Year 3, Semester 1	
ENB211	Dynamics
ENB231	Materials and Manufacturing 1
EGB111	Foundation of Engineering Design
[ENB150 replaced by EGB111 in 2015]	
Business Unit	
Year 3, Semester 2	
ENB205	Electrical and Computer Engineering
ENB215	Fundamentals of Mechanical Design
ENB221	Fluid Mechanics
ENB331	Materials and Manufacturing 2
Year 4, Semester 1	
SEB701	Work Integrated Learning 1
ENB222	Thermodynamics 1
Business Unit	
Business Unit	
Year 4, Semester 2	
MXB107	Statistical Models for Data: Relationships and Effects
[MAB233 replaced by MXB107 in 2015]	
OR	
Mechanical Engineering Selective	
Business Unit	
Business Unit	
Business Unit	
Year 5, Semester 1	
BEB801	Project 1
ENB316	Design of Machine Elements
ENB311	Stress Analysis
OR	
ENB312	Dynamics of Machinery

OR	
ENB421	Thermodynamics 2
Business Unit	
Year 5, Semester 2	
BEB802	Project 2
ENB313	Automatic Control
OR	
ENB317	Design and Maintenance of Machinery
OR	
ENB321	Fluids Dynamics
Business Unit	
Business Unit	
Mechanical Engineering Selectives	
ENB314	Industrial Noise and Vibration
ENB333	Operations Management
ENB336	Industrial Engineering
ENB339	Introduction to Robotics
ENB422	Energy Management
ENB423	Heating, Ventilation and Air-Conditioning
ENB432	Engineering Asset Management and Maintenance
ENB433	Plant and Process Design
ENB434	Tribology
ENB435	Computer Integrated Manufacturing

Handbook

Year	2015
QUT code	IX30
CRICOS	059601K
Duration (full-time)	4 years
OP	6
Rank	89
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
Total credit points	384
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	Director of Studies, QUT Business School; email: bus@qut.edu.au; SEF: Dr Tim Moroney (Mathematics); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Radhika Lahiri (Economics); Dr Mark Doolan (Finance); Dr Adele Bish (Human Resource Management); Mr Michael Cox (International Business); Dr Mervyn Morris (Management); Mr Bill Proud (Marketing); and Dr Kim Johnston (Public Relations). Dr Qianqian Yang (Applied and Computational Mathematics); Dr Kai Becker (Decision Science); and Dr Chris Drovandi (Statistical Science). Business: Student Services - bus@qut.edu.au; Mathematics: Student Services - 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 (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

Overview

Your Business studies will combine the broad knowledge of business practice and in depth studies in at least one business discipline area in the Bachelor of Business with the advanced quantitative skills and problem solving abilities that you will develop with the Bachelor of Mathematics.

You will develop the ability to apply mathematics, statistics, computational methods and decision science to real world problems. You will also gain understanding of the broad principles of Business at the same time as developing the skills and discipline knowledge necessary to enter the business career of your choice.

Career Outcomes

Combining business and mathematics offers diverse and sustainable career opportunities.

Business graduates are equipped to undertake sophisticated economic and financial modelling which is important in business and government decision making. Quantitative analysts are employed by the financial sector in order to optimise returns both in the short and long-term. Graduates may also become actuarial trainees in the insurance and superannuation area although further study is required in order to qualify as an actuary.

Business graduates may find employment as Accountants, Advertising Professionals, Banking and Finance Consultants, Economists, Human Resource Managers, International Business Specialists, Managers, Marketing Officers, Public Relations Officers.

Mathematics graduates are employed across a wide range of areas. These include, but are not limited to, finance, investment, data analytics, defence and national security, research, information technology, environmental science, health, management, marketing, logistics, media, and education. In addition to their knowledge and skills in mathematics, graduates are also highly valued for their analytical and problem-solving skills. Development of skills in communication, problem-solving, critical thinking and teamwork form an integral part of the course.

Favourable career outcomes for Bachelor of Mathematics graduates are likely due to the current demand for qualified statisticians and mathematicians.

Professional Recognition

Both degrees allow you to satisfy the requirements of membership of the relevant professional body for your chosen majors.

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](#).

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:

- 8 Business School Core units (96 credit points) including MGB223 (see below)*
- 8 Major Core units (96 credit points)

*Please note that BSB123 Data Analysis (one of the Business School Core Units) is not required as the content of MXB107 covers similar topics. MGB223 Entrepreneurship and Innovation replaces BSB123.

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

Mathematics component:

- 6 Core units (72 credit points), which are further divided into 4 Mathematics Core units (48 credit points), and 2 Core Option units (24 credit points) selected from an approved list.
- 10 Major Core units (120 credit points)

Mathematics Core Units

These units give you the grounding in mathematical theory and practice upon which your major units will build, and also provide an introductory taste of each of the three majors: applied and computational mathematics; decision science; and statistical science.

Core Option Units

You may choose from a wide variety of introductory units from other disciplines offered at QUT, or you may choose additional mathematics units. The additional mathematics units include a unit specially designed to assist students without a background of successful study in Mathematics C at high school; an alternative unit aimed at high achieving students that explores some interesting and unusual aspects of mathematics in some detail; and a unit introducing the field of computational and simulation science which combines mathematics, science and computing to simulate real-world problems.

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:

- 8 Business School Core units (96 credit points) including MGB223 (see below)*
- 8 Major Core units (96 credit points)

*Please note that BSB123 Data Analysis (one of the Business School Core Units) is not required as the content of MXB107 covers similar topics. MGB223

Bachelor of Business/Bachelor of Mathematics

Entrepreneurship and Innovation replaces BSB123.

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

Mathematics component:

- 6 Core units (72 credit points), which are further divided into 4 Mathematics Core units (48 credit points), and 2 Core Option units (24 credit points) selected from an approved list.
- 10 Major Core units (120 credit points)

Mathematics Core Units

These units give you the grounding in mathematical theory and practice upon which your major units will build, and also provide an introductory taste of each of the three majors: applied and computational mathematics; decision science; and statistical science.

Core Option Units

You may choose from a wide variety of introductory units from other disciplines offered at QUT, or you may choose additional mathematics units. The additional mathematics units include a unit specially designed to assist students without a background of successful study in Mathematics C at high school; an alternative unit aimed at high achieving students that explores some interesting and unusual aspects of mathematics in some detail; and a unit introducing the field of computational and simulation science which combines mathematics, science and computing to simulate real-world problems.

Business School Major Unit
Maths Common Major Unit
Maths Major Unit
Year 4 Semester 1
Business School Major Unit
Business School Major Unit
Maths Major Unit
Maths Major Unit
Year 4 Semester 2
Business School Major Unit
Business School Major Unit
Maths Major Unit
Maths Major Unit (capstone)

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	
Business School Core Unit	
Business School Core Unit	
Maths Core Unit	
Maths Core Option Unit	
Year 1 Semester 2	
Business School Core Unit	
Business School Core Unit	
Maths Common Major Unit	
Maths Common Major Unit	
Year 2 Semester 1	
Business School Core Unit	
Business School Core Unit	
Maths Core Unit	
Maths Core Unit	
Year 2 Semester 2	
Business School Core Unit	
Business School Major Unit	
Maths Core Unit	
Maths Core Option Unit	
Year 3 Semester 1	
Business School Major Unit	
Business School Major Unit	
Maths Common Major Unit	
Maths Major Unit	
Year 3 Semester 2	
Business School Major Unit	

Handbook

Year	2015
QUT code	IX31
CRICOS	042263G
Duration (full-time)	4 years
OP	11
Rank	78
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,500 per Study Period (48 credit points)
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	Dr Marion Bateson (Science); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au; or, Director of Studies, QUT Business School, bus@qut.edu.au
Discipline Coordinator	Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Radhika Lahiri (Economics); Dr Mark Doolan (Finance); Dr Adele Bish (Human Resource Management); Mr Michael Cox (International Business); Dr Mervyn Morris (Management); Mr Bill Proud (Marketing); and Dr Kim Johnston (Public Relations); Science Discipline Coordinator details are listed under further information. Business: +61 7 3138 2050 Business: bus@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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

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.

Domestic Course structure

Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor Applied Science program and 192 credit points from the Bachelor of Business program.

Business component:

- 8 Business School Core units (96 credit points) *
- 8 Major Core units (96 credit points)

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

International Course structure

Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor Applied Science program and 192 credit points from the Bachelor of Business program.

Business component:

- 8 Business School Core units (96 credit points) *
- 8 Major Core units (96 credit points)

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

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	
	Business Unit
	Business Unit
	Science Faculty Unit
	Science Faculty Unit
Year 1 Semester 2	
	Business Unit
	Business Unit
	Science Faculty Unit
	Science Faculty Unit
Year 2 Semester 1	
	Business Unit
	Business Unit
	Science Faculty Unit
	Science Faculty Unit
Year 2 Semester 2	
	Business Unit
	Business Unit
	Science Faculty Unit
	Science Faculty Unit
Year 3 Semester 1	
	Business Unit
	Business Unit
	Science Faculty Unit
	Science Faculty Unit
Year 3 Semester 2	
	Business Unit
	Business Unit
	Science Faculty Unit
	Science Faculty Unit

Bachelor of Applied Science/Bachelor of Business

Year 4 Semester 1

Business Unit

Business Unit

Science Faculty Unit

Science Faculty Unit

Year 4 Semester 2

Business Unit

Business Unit

Science Faculty Unit

Science Faculty Unit

Handbook

Year	2015
QUT code	IX37
CRICOS	059601K
Duration (full-time)	4 years
OP	7
Rank	87
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
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	Director of Studies, QUT Business School; email: bus@qut.edu.au; SEF Dr Tim Moroney(Mathematics); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Radhika Lahiri (Economics); Dr Mark Doolan (Finance); Dr Adele Bish (Human Resource Management); Mr Michael Cox (International Business); Dr Mervyn Morris (Management); Mr Bill Proud (Marketing); and Dr Kim Johnston (Public Relations) Business: Student Services - (07) 3138 2050 Business: Student Services - bus@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)).

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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

Course Update

As of 2014, this course will only be available for IX37 continuing students. IX37 has been replaced by [IX30 Bachelor of Business/Bachelor of Mathematics](#)

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/study

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:

- Commencing students from 2009 onwards
- 8 Business School Core units (96 credit points) including MGB223 (see below)*
 - 8 Major Core units (96 credit points)

2007-2008 commencing students

- 7 Business School Core units (84 credit points)*
- 9 Major Core units (108 credit points)

*Please note that BSB123 Data Analysis (one of the Business School Core Units) is not required as the

content of MAB313 Mathematics of Finance covers similar topics. MGB223 Entrepreneurship and Innovation replaces BSB123.

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

* 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.

Important Information for Business Students

QUT Business School rules and procedures are outlined in the [Business Undergraduate Guidelines](#). Other useful information can be found on the [Student Services](#) website.

Domestic Course structure

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:

- Eight Business School core units (96 credit points) including MGB223 (see below)*
- Eight major units (96 credit points)

*Please note that BSB123 Data Analysis (one of the Business School core units) is not required as the content of MAB313 Mathematics of Finance covers similar topics. MGB223 Entrepreneurship and Innovation replaces BSB123.

*Accounting major students complete 6 Business core units and 10 Accountancy major units to allow them to complete professional requirements.

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:

- 8 Business School Core units (96 credit points) including MGB223 (see below)*
- 8 Major Core units (96 credit points)

*Please note that BSB123 Data Analysis (one of the Business School Core Units) is not required as the content of MAB313 Mathematics of Finance covers similar topics. MGB223 Entrepreneurship and Innovation replaces BSB123.

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

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](#)

Bachelor of Business/Bachelor of Mathematics

Code	Title
Year 1 Semester 1	
	Business School Core Unit
	Business School Core Unit
	Mathematics Unit
	Mathematics Unit
Year 1 Semester 2	
	Business School Core Unit
	Business School Core Unit
	Mathematics Unit
	Mathematics Unit
Year 2 Semester 1	
	Business School Core Unit
	Business School Core Unit
	Mathematics Unit
	Mathematics Unit
Year 2 Semester 2	
	Business School Core Unit
	Business School Major Unit
	Mathematics Unit
	Mathematics Unit
Year 3 Semester 1	
	Business School Major Unit
	Business School Major Unit
	Mathematics Unit
	Mathematics Unit
Year 3 Semester 2	
	Business School Major Unit
	Business School Major Unit
	Mathematics Unit
	Mathematics Unit
Year 4 Semester 1	
	Business School Major Unit
	Business School Major Unit
	Mathematics Unit
	Mathematics Unit
Year 4 Semester 2	
	Business School Major Unit
	Business School Major Unit
	Mathematics Unit
	Mathematics Unit

Handbook

Year	2015
QUT code	IX53
CRICOS	066292D
Duration (full-time)	5.5 years
OP	5
Rank	92
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,500 per Study Period (48 credit points)
Total credit points	528
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	Mr Mike Roggenkamp (Information Technology); ph: 61 7 3138 8822; email: sef.enquiry@qut.edu.au; or, Amanda Stickley (Law Curriculum) and Jen Yule (Law Students)
Discipline Coordinator	Jennifer Yule 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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

Course Update

This course will be offered in 2014, however the course structure is being redeveloped and is subject to university approval.

For course updates please visit

www.qut.edu.au/coursechanges

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.

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 e-democracy both in e-government service delivery and political campaigning.

Study Areas

IX53 has nominated majors in Information Systems and Computer Science in the Information Technology component of the degree. There will now be a Study Area A shown on a graduate's parchment.

Pathways to Further Studies

The QUT Bachelor of Information Technology is located at Level 7 of the Australian Qualifications Framework (AQF). Eligible graduates may continue their studies in this discipline with an additional honours year in (IN10) Bachelor of Information Technology (Honours).

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 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.

Domestic 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.

International 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.

Sample Structure

Course Updates

A number of changes have been made to Science and Engineering Faculty courses. From 2014, some units in this course have been recoded, renamed or discontinued. To see how these changes affect you, please view the course structure. Affected Study Plans have been updated to reflect the changes. Please contact the Faculty if you have any concerns.

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](#)

Code	Title
Year 1, Semester 1	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
LWB145	Legal Foundations A
LWB147	Torts A
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
LWB146	Legal Foundations B
LWB148	Torts B
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
LWB136	Contracts A
LWB238	Fundamentals of Criminal Law
Year 2, Semester 2	
IT Major Unit	
IT Major Unit	
LWB137	Contracts B
LWB239	Criminal Responsibility
Year 3, Semester 1	
IT Major Unit	
IT Major Unit	
LWB240	Principles of Equity
LWB243	Property Law A
Year 3, Semester 2	
IT Major Unit	
IT Major Unit	
LWB241	Trusts
LWB244	Property Law B
Year 4, Semester 1	
IT Major Unit	
IT Major Unit	
LWB242	Constitutional Law
LWB432	Evidence
Year 4, Semester 2	
IT Major Unit	
IT Major Unit	
LWB334	Corporate Law
Law Elective	
Year 5, Semester 1	
LWB335	Administrative Law

LWB431	Civil Procedure
Law Elective	
Law Elective	
Year 5, Semester 2	
LWB433	Professional Responsibility
Law Elective	
Law Elective	
Law Elective	
Year 6, Semester 1	
Law Elective	
Law Elective	
Law Elective	
Law Elective	

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
CAB201	Programming Principles
CAB202	Microprocessors and Digital Systems
Year 3, Semester 1	
CAB203	Discrete Structures
CAB302	Software Development
Year 3, Semester 2	
CAB303	Networks
IFB299	Application Design and Development
Year 4, Semester 1	
CAB301	Algorithms and Complexity
CAB398	Capstone Project (Phase 1)
Year 4, Semester 2	
CAB399	Capstone Project (Phase 2)
Select one of:	
CAB401	High Performance and Parallel Computing
CAB402	Programming Paradigms
CAB403	Systems Programming

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
IAB201	Modelling Information Systems
IAB202	Business of Information Technology
Year 3, Semester 1	
IAB203	Business Process Modelling
IAB204	Business Analysis
Year 3, Semester 2	
IAB205	Corporate Systems
IFB299	Application Design and Development
Year 4, Semester 1	
IAB398	Capstone Project Part 1 - Design
Select one of:	
IAB302	Information Systems Consulting
IAB303	Business Intelligence
IAB304	Project Management
Year 4, Semester 2	
IAB399	Capstone Project
IAB301	Enterprise Architecture

Handbook

Year	2015
QUT code	IX54
CRICOS	006384G
Duration (full-time)	5 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,100 per Study Period (48 credit points)
Total credit points	480
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 Jacob Coetzee (Engineering), Mr Mike Roggenkamp (Information Technology); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Jacob Coetzee (Engineering), Mr Richard Thomas (Information Technology Major)

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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

Course Update

This course will be offered in 2014, however the course structure is being redeveloped and is subject to university approval.

For course updates please visit www.qut.edu.au/coursechanges

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. 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

Students who graduate with an Honours degree in Engineering will be eligible to apply for entry to postgraduate research degrees in appropriate disciplines.

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 specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

Domestic Course structure

Students are required to complete 480 credit points comprising studies from the Bachelor of Engineering (Electrical) program and the Bachelor of Information Technology.

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.

Students supplement the electrical engineering component of this program with core units in the Bachelor of IT program ;

- Six (6) IT Core units (72 credit points - 48cp + 24cp Core options)

- Ten (10) IT Major Core units (120 credit points)

International Course structure

Course Design

Students are required to complete 480 credit points comprising studies from the Bachelor of Engineering (Electrical) program and the Bachelor of Information Technology.

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.

Students supplement the electrical engineering component of this program with core units in the Bachelor of IT program ;

- Six (6) IT Core units (72 credit points - 48cp + 24cp Core options)

- Ten (10) IT Major Core units (120 credit points)

Sample Structure Course Updates

A number of changes have been made to Science and Engineering Faculty courses. From 2015, units in the Engineering component of IX54 will progressively

Bachelor of Engineering (Electrical)/Bachelor of Information Technology

be recoded, renamed or discontinued (for students who commenced the course prior to 2015). To see how these changes affect you, please consult Engineering unit replacement table below in conjunction with the course structure. Affected Study Plans are being amended to reflect the changes. Please contact the Faculty if you have any concerns.

Engineering Unit Replacement Table

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](#)
- [Electrical Engineering Selectives](#)

Code	Title
Year 1 Semester 1	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
IFB103	Designing for IT
MZB125	Introductory Engineering Mathematics
[MAB125 replaced by MZB125 in 2015]	
OR	
MZB126	Engineering Computation
[MAB126 replaced by MZB126 for Semester 1 2015 only. To be replaced by MXB106 from Semester 2 onwards.]	
Year 1 Semester 2	
EGB120	Foundations of Electrical Engineering
[ENB120 replaced by EGB120 in 2015]	
IFB104	Building IT Systems
MXB106	Linear Algebra and Differential Equations
[MAB126 replaced by MXB106 from Semester 2 2015.]	
OR	
MAB127	Mathematics for Engineering 2
[For those who are required to do MAB125/MZB125, MAB126/MXB106 can be selected under the Electrical Engineering Unit Options.]	
IT Major Unit	
Year 2 Semester 1	
EGB113	Energy in Engineering Systems
[ENB130 replaced by EGB113 in 2015]	
ENB240	Introduction To Electronics
ENB250	Electrical Circuits
MAB127	Mathematics for Engineering 2
OR	
MAB233	Engineering Mathematics 3
Year 2 Semester 2	
EGB121	Engineering Mechanics
[ENB110 replaced by EGB121 from Sem 2, 2015]	
Engineering Unit Option	
[Engineering Unit Option replaces ENB200 in 2015. See Engineering Unit Option List]	
ENB242	Introduction To Telecommunications

ENB243	Linear Circuits and Systems
Year 3 Semester 1	
EGB111	Foundation of Engineering Design
[ENB150 replaced by EGB111 (sem 1 unit) from 2015]	
ENB246	Engineering Problem Solving
IT Major Unit	
IT Major Unit	
Year 3 Semester 2	
ENB245	Introduction To Design and Professional Practice
IFB299	Application Design and Development
IT Major Unit	
IT Major Unit	
Year 4 Semester 1	
ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
IT Major Unit	
Year 4 Semester 2	
ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
MAB233	Engineering Mathematics 3
OR Electrical Engineering Selective	
IT Major/Core Option	
Year 5 Semester 1	
ENB346	Digital Communications
CAB398	Capstone Project (Phase 1)
OR	
IAB398	Capstone Project Part 1 - Design
IT Major/Core Option	
Electrical Engineering Selective	
Year 5 Semester 2	
BEB801	Project 1
SEB701	Work Integrated Learning 1
CAB399	Capstone Project (Phase 2)
OR	
IAB399	Capstone Project
IT Major Unit	
Electrical Engineering Selectives	
MXB106	Linear Algebra and Differential Equations
[MAB126/MXB106 must be selected here, if not selected previously.]	
ENB241	Software Systems Design
ENB339	Introduction to Robotics
ENB441	Applied Image Processing
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
Unit List	
Code	Title

CAB201	Programming Principles
CAB202	Microprocessors and Digital Systems
CAB203	Discrete Structures
CAB301	Algorithms and Complexity
CAB302	Software Development
CAB303	Networks
IFB299	Application Design and Development
CAB398	Capstone Project (Phase 1)
CAB399	Capstone Project (Phase 2)
Select 12cp from:	
CAB401	High Performance and Parallel Computing
CAB402	Programming Paradigms
CAB403	Systems Programming

Unit List	
Code	Title
IAB201	Modelling Information Systems
IAB202	Business of Information Technology
IAB203	Business Process Modelling
IAB204	Business Analysis
IAB205	Corporate Systems
IFB299	Application Design and Development
IAB301	Enterprise Architecture
IAB398	Capstone Project Part 1 - Design
IAB399	Capstone Project
Select 12cp from:	
IAB302	Information Systems Consulting
IAB303	Business Intelligence
IAB304	Project Management

Handbook

Year	2015
QUT code	IX56
CRICOS	059227E
Duration (full-time)	4 years
OP	11
Rank	76
OP Guarantee	Yes
Campus	Kelvin Grove, Gardens Point
Domestic fee (indicative)	2015: CSP \$4,700 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,400 per Study Period (48 credit points)
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	Dr Ruth Bridgstock (Creative Industries); Mr Mike Roggenkamp (Information Technology); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	CI: 07 3138 8114 ci@qut.edu.au (Creative Industries); sef.enquiry@qut.edu.au (Information Technology)

Domestic Assumed knowledge

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

- Maths A, B or C
- English

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

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 communication
- 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 has majors in Information Systems and Computer Science which will be shown on the a graduate's parchment.

Pathways to Further Studies

On successful completion of this course, you will be eligible to apply for entry into the Bachelor of Creative Industries (Honours), provided you have met entry requirements.

The QUT Bachelor of Information Technology is located at Level 7 of the Australian Qualifications Framework (AQF). Eligible graduates may continue their studies in this discipline with an additional honours year in (IN10) Bachelor of Information Technology (Honours).

Work Integrated Learning

The Faculty's Work Integrated Learning Minor gives you the opportunity of industry placement during your course where you can integrate real experience with what you're learning in your degree. Companies that QUT's students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments.

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.

Domestic Course structure

You will undertake the Bachelor of Creative Industries 96cp core units as well as 96cp from a creative industries major.

The Bachelor of Information Technology degree comprises of ;

- 72 credit points (6 units) of Information Technology Core units, which includes 24 credit points (2 units) of Option Units* selected from an approved list.
- 120 credit points (10 units) of Major Core units (Information Systems or Computer Science).

International Course structure

You will undertake the Bachelor of Creative Industries 96cp core units as well as 96cp from a creative industries major.

The Bachelor of Information Technology degree comprises of ;

- 72 credit points (6 units) of Information Technology Core units, which includes 24 credit points (2 units) of Option Units* selected from an approved list.
- 120 credit points (10 units) of Major Core units (Information Systems or Computer Science).

Sample Structure Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)

Bachelor of Creative Industries/Bachelor of Information Technology

- [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	
IT Core Unit	
IT Core Unit	
KKB101	Creative Industries: People and Practices
Creative Industries Major: First Unit	
Year 1, Semester 2	
IT Core Unit	
IT Core Unit	
KKB102	Creative Industries: Making Connections
Creative Industries Major: Second Unit	
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
A unit from the Level 1 Unit Options (either DXB102 or KPB101 or KVB104):	
DXB102	Visual Communication
KPB101	Introduction to Film, TV and New Media Production
KVB104	Photomedia and Artistic Practice
Creative Industries Major: Third Unit	
Note: KIB101 was recoded to DXB102 from 2015.	
Year 2, Semester 2	
IT Major Unit	
IT Major Unit	
A unit from the Level 2 Unit Options (either KTB211 or KXB202):	
KTB211	Creative Industries Events and Festivals
KXB202	Project Management for Entertainment
Creative Industries Major: Fourth Unit	
Year 3, Semester 1	
IT Major Unit	
IT Major Unit	
Creative Industries Major: Fifth Unit	
A unit from the Creative Industries University Wide or Creative Industries Faculty Only Unit Options lists	
Year 3, Semester 2	
IT Major Unit	
IT Major Unit	
Creative Industries Major: Sixth Unit	
A unit from the Creative Industries University Wide or Creative Industries Faculty Only Unit Options lists	
Year 4, Semester 1	
IT Major Unit	
IT Major Unit	
Creative Industries Major: Seventh Unit	
A unit from the Creative Industries Work Integrated Learning Unit Options	
Year 4, Semester 2	
IT Major Unit	
IT Major Unit	
Creative Industries Major: Eighth Unit	
A unit from the Creative Industries Work Integrated Learning Unit Options	

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
CAB201	Programming Principles
CAB202	Microprocessors and Digital Systems
Year 3, Semester 1	
CAB203	Discrete Structures
CAB302	Software Development
Year 3, Semester 2	
CAB303	Networks
IFB299	Application Design and Development
Year 4, Semester 1	
CAB301	Algorithms and Complexity
CAB398	Capstone Project (Phase 1)
Year 4, Semester 2	
CAB399	Capstone Project (Phase 2)
Select one of:	
CAB401	High Performance and Parallel Computing
CAB402	Programming Paradigms
CAB403	Systems Programming

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
IAB201	Modelling Information Systems

IAB202	Business of Information Technology
Year 3, Semester 1	
IAB203	Business Process Modelling
IAB204	Business Analysis
Year 3, Semester 2	
IAB205	Corporate Systems
IFB299	Application Design and Development
Year 4, Semester 1	
IAB398	Capstone Project Part 1 - Design
Select one of:	
IAB302	Information Systems Consulting
IAB303	Business Intelligence
IAB304	Project Management
Year 4, Semester 2	
IAB399	Capstone Project
IAB301	Enterprise Architecture

Note: From 2015 the Fashion Major and Second Major has been re-named Fashion Communication. If you commenced the Fashion Major or Second Major prior to 2015 you will be permitted to continue and complete the old Major or Second Major. Please refer to Fashion Communication for your list of unit options.

In this list

- [INSTRUCTIONS FOR MAJORS](#)
- [Changes to Majors from 2012](#)
- [Animation \(KKBXMJR-ANIMATN\)](#)
- [Art and Design History \(KKBXMJR-ARTHIST\)](#)
- [Creative and Professional Writing \(KKBXMJR-CRPFVWG\)](#)
- [Dance Studies \(KKBXMJR-DANCEST\)](#)
- [Drama \(KKBXMJR-DRAMA\)](#)
- [Entertainment Industries \(KKBXMJR-ENTINDS\)](#)
- [Fashion Communication \(KKBXMJR-FASHION\) \(previously Fashion\)](#)
- [Film, Television and Screen \(KKBXMJR-FLMTVSC\)](#)
- [Interactive and Visual Design \(KKBXMJR-INVISDN\)](#)
- [Journalism \(KKBXMJR-JOURNAL\)](#)
- [Literary Studies \(KKBXMJR-LITSTD\)](#)
- [Media and Communication \(KKBXMJR-MEDIACM\)](#)
- [Music \(KKBXMJR-MUSIC\)](#)

INSTRUCTIONS FOR MAJORS

Code	Title
Please refer to the following study sequences to plan your program. You must complete 96 credit points (normally eight 12 credit point subjects) from the specified units to achieve a major, following semester of offer and unit requisites (where applicable) to determine order of enrolment. Any unit(s) that appear in these majors and/or minors and are also mandatory elsewhere in your course can not contribute towards the completion of these majors and/or minors. Any unit(s) that appear in multiple majors and/or minors can only contribute towards the completion of one of these majors or minors.	

Changes to Majors from 2012

Code	Title
* A number of second majors have been revised. Units completed that are no longer listed will still count toward completion of the second majors.	
* Please note: Some units have been recoded, renamed or discontinued. Refer to the Equivalence Table for further information.	

Bachelor of Creative Industries/Bachelor of Information Technology

Animation (KKBXMJR-ANIMATN)

Code	Title
*Description: This major provides you with important skills in the skills, principles, concepts and history of animation. Beginning with drawing for animation and an exploration of the history of the animation industry and its practices, you will then apply this knowledge to current and emerging fields within the animation industry including motion graphics, 3D modelling and animation, real-time 3D and character animation. Through the creation of an interactive virtual environment you will be given the opportunity to refine your skills and expand your knowledge of the 3D animation industry.	
*Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major.	
48cp from the Introductory Animation Unit Options	
KNB112	Drawing for Animation 1
KNB122	Drawing for Animation 2
KNB123	Animation and Motion Graphics
KNB124	3D Animation 1
KPB109	Film, Screen and Animation Histories
48cp from the Advanced Animation Unit Options	
KNB211	3D Animation 2
KNB212	Real-time 3D Computer Graphics
KNB221	Animation: CG Toolkit
KNB222	Virtual Environments
KNB311	Advanced Concepts in Computer Animation 1
KNB312	Contemporary Issues in the Screen Industries

Art and Design History (KKBXMJR-ARTHIST)

Code	Title
*Description: This major equips you with the educational base necessary for a career in the arts professions, such as curatorial work, art criticism and arts administration. It offers a coherent and sequential set of units that provide a platform for a research-based study of the visual arts, design and architecture. In conjunction with further study, this major will assist in preparing you for work as a professional in these disciplines.	
*Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major.	
96cp from the Art and Design History Unit Options	
DAB220	Architecture, Culture and Place
DAB325	Architecture in the 20th Century
DEB202	Introducing Design History
KVB102	Modernism
KVB103	Australian Art
KVB108	Contemporary Asian Visual Culture
KVB211	Post 1945 Art
KVB212	Australian Art, Architecture and Design
KVB304	Contemporary Art Issues
KVB306	Video Art and Culture

Creative and Professional Writing (KKBXMJR-CRPRFWG)

Code	Title
*Description: The aim of this major is to prepare students to graduate with adequate skills and knowledge in the area of creative and professional writing; to provide a thorough grounding in a variety of genres that include fiction, creative non-fiction, media writing and corporate writing and editing, thereby equipping graduates with the versatility required of professional writers; to enhance the critical, analytical and peer-reviewing skills of students; to provide an understanding of creative	

writing in its social and generic contexts.	
*Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major.	
48cp from the Introductory Creative and Professional Writing Unit Options	
KPB116	Introduction to Scriptwriting
KWB104	Creative Writing: the Short Story
KWB112	Youth and Children's Writing
KWB113	Introduction to Creative Writing
KWB115	Persuasive Writing
KWB116	Creative Non-Fiction
48cp from the Advanced Creative and Professional Writing Unit Options	
KWB207	Great Books: Creative Writing Classics
KWB211	Stylistics
KWB213	Corporate Writing and Editing
KWB303	Writing and Publishing Industry
KWB313	Novel and Memoir

Dance Studies (KKBXMJR-DANCEST)

Code	Title
*Description: This major aims to provide a broad grounding in practical and theoretical aspects of dance. You will gain skills in contemporary dance, ballet, commercially driven genres, choreography and critical thinking and writing together with an understanding of the social and historical context of ballet, contemporary dance, and popular and world dance.	
*Assumed Knowledge: Previously acquired knowledge or skill IS required for you to undertake this major. For health and safety reasons, admission to this major is dependent upon an appropriate level of physical fitness to prevent injury, and having no pre-existing injuries or structural/physical issues that would prevent your safe and full participation in all physical activities within its practical units. You may be required to confirm your fitness to attempt this major. If so, you must obtain a physiotherapists report and have it approved by the Dance Study Area Coordinator before you will be permitted to enrol in this major.	
48cp from the Introductory Dance Unit Options	
KDB105	Architecture of the Body
KDB106	Dance Analysis
KDB107	Choreographic Studies 1
KDB108	World Dance
KDB109	Funk, Tap and all that Jazz
KDB110	Deconstructing Dance in History
KDB120	Dance Practice 1
KDB121	Dance Practice 2
48cp from the Advanced Dance Unit Options	
KDB204	Australian Dance
KDB205	Teaching Dance
KDB225	Music Theatre Skills
KDB231	Latin Dance Party

Drama (KKBXMJR-DRAMA)

Code	Title
*Description: The major offers a balance of performance theory and practice. It is designed as a learning sequence, beginning with introductory concepts and practices, through intermediate and on to advanced learning. Underpinning the major is a twin focus on contemporary performance-making and events management. Both of these areas are balanced by studies in theatre history and theory. Core topics include acting; directing; twentieth-century performance theory and practice; and events management.	

*Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major.	
48cp from the Introductory Drama Unit Options	
KTB101	Understanding Theatre
KTB102	Process Drama
KTB104	Performance Innovation
KSB106	Acting Fundamentals
48cp from the Advanced Drama Unit Options	
KDB225	Music Theatre Skills
KTB207	Staging Australia
KTB210	Creative Industries Management
KTB211	Creative Industries Events and Festivals
KTB213	Directing Theatre
KTB302	Postdramatic Theatre
KTB305	The Entrepreneurial Artist

Entertainment Industries (KKBXMJR-ENTINDS)

Code	Title
*Description: On completion of this major, you will be able to demonstrate the knowledge and skills required to pursue a career in the Entertainment Industry. These include an understanding of the characteristics of mainstream commercial culture that appeal to large audiences; an understanding both of business and creative processes; an ability to balance the two of these; and an awareness of historical and current Entertainment content and business.	
*Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major.	
Either BSB126 or KPB116. BSB126 is mandatory unless you are already undertaking it as part of another study package.	
BSB126	Marketing
KPB116	Introduction to Scriptwriting
Entertainment Industries Core Units:	
AMB207	Entertainment Marketing
KXB101	Introduction to Entertainment
KXB102	Global Entertainment
KXB201	Entertainment Practice: Balancing Creativity and Business
KXB301	Entertainment Industries Map
LWS009	Introduction to Law
LWS008	Entertainment Law
*Note: AMB200 or KCB301 are permitted to count towards this major if completed in 2010 or earlier. KPB101 will be permitted to count towards this study package if completed in 2011 or earlier.	

Fashion Communication (KKBXMJR-FASHION) (previously Fashion)

Code	Title
*Description: This major has been designed to offer a mix of theoretical and practical units to reflect the professional diversity of fashion careers, where communication is fundamental to the dissemination of fashion globally. The theory units will develop your knowledge and understanding of the history, industry and consumption of fashion and how fashion is communicated, marketed and distributed through industry channels for production, and through branding, trends, styling and graphic/technical requirements. The practical units provide you with a variety of options to develop fashion communication related skills focusing on fashion graphics, product development and fashion journalism.	
*Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major.	

Bachelor of Creative Industries/Bachelor of Information Technology

*From 2015, this major's title has changed from 'Fashion Major' to 'Fashion Communication Major'.

48cp from the Introductory Fashion Unit Options

Code	Title
DFB102	Introduction to Fashion
DFB203	Sustainability: The Materiality of Fashion
DFB302	Fashion Visualisation
DFB303	Unspeakable Beauty: A History of Fashion
DFB406	Product Design and Development in the Fashion Industry

48cp from the Advanced Fashion Unit Options

Code	Title
DFB304	Fashion and Costume in Film
DFB402	Fashion Design: 1950 to Now
DFB404	Fashion and Style Journalism
DFB502	Ragtrade: The Business of Fashion
DFB602	Critical Fashion Studies

*Note: DFB406/KFB211 are permitted to count towards the Advanced Fashion Unit Options for students who commenced this major in 2014 or earlier.

*Note: KFB108 is permitted to count towards the Introductory Fashion Unit Options if completed in 2014 or earlier.

*Note: KCB203, KFB106, KFB206, KFB208, KFB304 and KVB213 are permitted to count towards this major if completed in 2011 or earlier.

Film, Television and Screen (KKBXMJR-FLMTVSC)

*Description: The aim of this major is to provide students with a range of understandings in the theory and practice of film, television and screen. This study area aims to enhance creative, technical and organisational abilities as well as building story telling and communication skills.

*Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major.

*Note: Students who have commenced this major in 2014 or earlier will complete the structure of 48cp of Introductory Units and 48cp of Advanced Units.

Introductory Units in 2015: KPB101, KPB105, KPB109, KPB110, KPB112, KPB113, KPB116.

Advanced Units in 2015: KNB312, KPB205, KPB206, KPB210.

96cp from the Film, Television and Screen Unit Options

Code	Title
KNB312	Contemporary Issues in the Screen Industries
KPB101	Introduction to Film, TV and New Media Production
KPB105	Narrative Production
KPB109	Film, Screen and Animation Histories
KPB110	The Movie, TV and New Media Business
KPB112	Film, Television and Screen Genres
KPB113	TV and Film Text Analysis
KPB116	Introduction to Scriptwriting
KPB205	Approaches to Contemporary Documentary
KPB206	Global Screen Industries
KPB210	Production Management for Film, TV and New Media

*Note: KPB202 and KPB203 are permitted to count towards this major.

*Note: KPB212, KPB303 and KPB313 are permitted to count towards this major if completed in 2014 or earlier.

Interactive and Visual Design (KKBXMJR-INVISDN)

Code	Title
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*Description: This major will provide you with the design concepts and principles, practical skills and working methods needed by a contemporary designer of visual and interactive media. You will learn how to design effectively for print and electronic media, Web and mobile media and computer games and become equipped with a versatile set of design practices to support you to enter careers in marketing, web design, electronic publishing, interaction design and the creative aspects of game design.

*Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major.

It is recommended that you review the requisite requirements for units to ensure your unit selection enables you to successfully complete the requirements of this major. DXB102, DXB202 and DXB203 are highly recommended to be undertaken as first year units as they are requisites for many advanced units, but this is not compulsory.

48cp from the Introductory Interactive and Visual Design Unit Options

Code	Title
DXB102	Visual Communication
DXB201	Visual Interactions
DXB202	Image Production
DXB203	Introduction to Web Design
DXB303	Programming for Visual Designers

48cp from the Advanced Interactive and Visual Design Unit Options

Code	Title
DXB301	Interface Design
DXB302	Typographic Design
DXB304	Concept Development for Game Design and Interactive Media
DXB401	Advanced Web Design
DXB402	Theories of Visual Communication
DXB403	Design for Interactive Media
DXB501	Tangible Media

*Note: KNB112, KIB309 and KIB315 is permitted to count towards this major if completed in 2014 or earlier.

*Note: KIB109 counts towards the Introductory unit options if completed in 2014 or earlier. KIB205 counts towards the Advanced unit options if completed in 2014 or earlier.

*Note: KIB104 is permitted to count towards this major if completed in 2011 or earlier.

Journalism (KKBXMJR-JOURNAL)

Code	Title
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*Description: This second major offers you a range of options to develop an understanding of the parameters of the journalism field. The second major will introduce you to a range of journalism writing styles and offers an insight into some specialist areas of reporting.

*Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this second major.

96cp from the Journalism Unit Options

Code	Title
DFB404	Fashion and Style Journalism
KJB101	Computational Journalism
KJB120	Newswriting
KJB121	Journalistic Inquiry
KJB103	Media Design and Layout
KJB222	Online Journalism 1
KJB224	Feature Writing
KJB239	Journalism Ethics and Issues
KJB280	International Journalism

KJB304	Sub-Editing
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Literary Studies (KKBXMJR-LITSTD)

Code	Title
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*Description: The aims of this major are to prepare students to graduate with adequate skills and knowledge in the area of literary and cultural studies; to provide a thorough grounding in a range of texts, both literary and popular, ranging from Shakespeare to nineteenth and twentieth century literature and culture; to provide graduates with enhanced skills in critical thinking, writing and analysis; to provide graduates with an understanding of the social and historical context of literary and popular written texts; to provide some understanding of the major approaches in literary theory.

*Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major.

96cp from the Literary Studies Unit Options

KWB108	Introduction To Literary Studies
KWB109	Writing Australia
KWB112	Youth and Children's Writing
KWB207	Great Books: Creative Writing Classics
KWB208	Modern Times (Literature and Culture in the 20th Century)
KWB209	Shakespeare, Then and Now
KWB210	Imagining the Americas: Contemporary American Literature and Culture
KWB308	Wonderlands: Literature and Culture in the 19th Century
KWB311	Popular Fictions, Popular Culture

Media and Communication (KKBXMJR-MEDIACM)

Code	Title
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*Description: This second major offers you a range of options to develop an understanding of the parameters of the professional communication field. The second major enables you to develop the skills and knowledge to prepare media material for organisations that wish to build, and maintain, a media profile.

*Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this second major.

2013 changes to this second major include:

*the discontinuation of KCB207 Exploring New Media Worlds. Completion of this unit prior to 2013 will be permitted to count toward this study area.

48cp from the Introductory Media and Communication Unit Options

KCB101	Media and Communication Texts
KCB102	Media Mythbusting
KCB103	Strategic Speech Communication
KCB104	Media and Communication: Industries
KCB105	Inquiry in Media and Communication

48cp from the Advanced Media and Communication Unit Options

KCB203	Consumption Matters: Consumer Cultures and Identity
KCB205	Professional Communication
KCB206	Internet, Self and Beyond
KCB301	Media Audiences

Music (KKBXMJR-MUSIC)

Code	Title
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*Description: This major aims to impart a broad understanding of music practice in contemporary social, cultural and economic contexts. It aims to provide students with a combination of practical and theoretical skills to support a career in music within

administrative, business, or organisational areas.

*Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major.

It is recommended that you review the requisite requirements for units to ensure your unit selection enables you to successfully complete the requirements of this major. KMB129 is mandatory as it is a requisite for an advanced unit (KMB252).

48cp from the Introductory Music Unit Options

[KMB003](#) Sex Drugs Rock 'N' Roll

[KMB004](#) World Music

[KMB107](#) Sound, Image, Text

[KMB119](#) Music and Sound Production 1

[KMB122](#) Music and Sound Concepts 1

[KMB129](#) Music and Sound Production 2

[KMB132](#) Music and Sound Concepts 2

48cp from the Advanced Music Unit Options

[KDB225](#) Music Theatre Skills

[KMB200](#) Music Scenes and Subcultures

[KMB215](#) The Music Industry

[KMB216](#) Audio / Visual Interaction

[KMB252](#) Multi-Platform Sound Design

Please note: KKB345 is permitted to count towards this major if completed in 2010 or earlier.

Handbook

Year	2015
QUT code	IX57
CRICOS	059226F
Duration (full-time)	4 years
OP	7
Rank	87
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	384
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	Mr Mike Roggenkamp (Information Technology), Dr Tim Moroney (Mathematics); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline 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).

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 2014, this course will only be available for IX57 continuing students. New students should refer to [SE30 Bachelor of Information Technology/Bachelor of Mathematics](#).

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 Environments
- Enterprise Systems
- Information Management
- Network Systems
- Software Engineering
- Web Technologies

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](#).

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.

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 Course Updates

A number of changes have been made to Science and Engineering Faculty courses. From 2014, units in this course is progressively being recoded, renamed or discontinued. To see how these changes affect you, please consult the unit replacement tables below in conjunction with the the course structures. Affected Study Plans are being amended to reflect the changes. Please contact the Faculty if you have any concerns.

Bachelor of Information Technology/Bachelor of Mathematics

[Information Technology and Mathematics Unit Replacement Tables](#) ▶

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	
IFB101	Impact of IT
[INB101 is replaced by IFB101 from 2014]	
IFB102	Computer Technology Fundamentals
[INB102 is replaced by IFB102 from 2014]	
MAB121	Single Variable Calculus and Differential Equations
Note: from 2014 MAB121 is replaced by:	
MXB105	Calculus of One and Two Variables
MAB122	Linear Algebra and Multivariable Calculus
Note: from 2014 MAB122 is replaced by:	
MXB106	Linear Algebra and Differential Equations
Year 1, Semester 2	
IFB103	Designing for IT
[INB103 is replaced by IFB103 from 2014]	
IFB104	Building IT Systems
[INB104 is replaced by IFB104 from 2014]	
MAB210	Probability and Stochastic Modelling 1
Note: from 2014 MAB210 is replaced by:	
MXB101	Probability and Stochastic Modelling 1
MAB220	Computational Mathematics 1
Note: from MAB220 is replaced by:	
MXB103	Introductory Computational Mathematics
Year 2, Semester 1	
IT Breadth Unit Option	
IT Breadth Unit Option	
MXB201	Advanced Linear Algebra
[MAB312 is replaced by MXB201 in 2015]	
Level 2 or 3 Maths Unit	
Year 2, Semester 2	
IT Breadth Unit Option	
IT Breadth Unit Option	
Level 2 or 3 Maths Unit	
Level 2 or 3 Maths Unit	
Year 3, Semester 1	
INB201	Scalable Systems Development
IT Specialisation Unit Option	
MAB311	Advanced Calculus
Note: from 2015 MAB311 is replaced by:	
MXB202	Advanced Calculus
Level 2 or 3 Maths Unit	
Year 3, Semester 2	
INB300	Professional Practice in IT

IT Specialisation Unit Option	
Level 2 or 3 Maths Unit	
Level 2 or 3 Maths Unit	
Year 4, Semester 1	
IAB202	Business of Information Technology
[INB301 replaced by IAB202 in 2016]	
IT Specialisation Unit Option	
Level 2 or 3 Maths Unit	
Level 2 or 3 Maths Unit	
Year 4, Semester 2	
INB302	IT Capstone Project
IT Specialisation Unit Option	
Level 2 or 3 Maths Unit	
Level 2 or 3 Maths Unit	

Handbook

Year	2015
QUT code	IX58
CRICOS	059595C
Duration (full-time)	4 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
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	SEF Mr Mike Roggenkamp (Information Technology); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au; or, Director of Studies, QUT Business School; email: bus@qut.edu.au
Discipline Coordinator	Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Radhika Lahiri (Economics); Dr Mark Doolan (Finance); Dr Adele Bish (Human Resource Management); Mr Michael Cox (International Business); Dr Mervyn Morris (Management); Mr Bill Proud (Marketing); and Dr Kim Johnston (Public Relations) Business Student Services phone 3138 2050 or email bus@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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

Course Update

This course will be offered in 2014, however the course structure is being redeveloped and is subject to university approval.

For course updates please visit www.qut.edu.au/coursechanges

Study Areas

IX58 will not have nominated majors and minors for the IT component and consequently there will not be a Study Area A shown on a graduate's parchment for the Bachelor of Information Technology. Instead, the IT component 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

The following Majors are available from the Business component: Accounting, Advertising, Economics, Finance, Human Resource Management, International Business, Management, Marketing and Public Relations.

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 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.

Domestic Course structure

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 environments
- Enterprise systems
- Information management
- Network systems
- Software engineering
- Web technologies.

Business component:

- 8 Business School Core units (96 credit points)
- 8 Major Core units (96 credit points)

Major Options

- Accounting*
- Advertising
- Economics
- Finance
- Human Resource Management
- International Business
- Management
- Marketing
- Public Relations

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

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
- Information Management
- Network Systems
- Software Engineering
- Web Technologies

Business component:

- 8 Business School Core units (96 credit points)
- 8 Major Core units (96 credit points)

Major Options

- Accounting*
- Advertising
- Economics
- Finance
- Human Resource Management
- International Business
- Management
- Marketing
- Public Relations

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

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	
INB101	Impact of IT
INB102	Emerging Technology
Business Unit	
Business Unit	
Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems
Business Unit	
Business Unit	
Year 2, Semester 1	
IT Breadth Option Unit	
IT Breadth Option Unit	
Business Unit	
Business Unit	
Year 2, Semester 2	
IT Breadth Option Unit	
IT Breadth Option Unit	
Business 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	
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	
Business Unit	
Year 4, Semester 1	
IAB202	Business of Information Technology
[INB301 replaced by IAB202 in 2016]	
INB300 and INB301/IAB202 can only be taken after a student has completed a minimum of 168 credit points of study.	
IT Specialist Option Unit	
Business Unit	
Business Unit	
Year 4, Semester 2	
INB302	IT Capstone Project
INB301 must be completed before enrolling in INB302.	
IT Specialist Option Unit	
Business Unit	
Business Unit	

Handbook

Year	2015
QUT code	IX59
CRICOS	084925D
Duration (full-time)	5 years
OP	8
Rank	84
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,900 per Study Period (48 credit points)
Total credit points	480
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	Director of Studies, QUT Business School; email: bus@qut.edu.au; or, Dr R.Mahalinga-Iyer (Engineering); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au; or,
Discipline 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 (4, SA). Recommended Study: Chemistry, Maths C, 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, 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	6.5

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours) in IX59, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

To complete the Bachelor of Business students will complete 192 credit points of course units, as outlined below:

- 8 Business School Core units (96 credit points) *
- 8 Major Core units (96 credit points)

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

International Course structure

To graduate with a Bachelor of Engineering (Honours) in IX59, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp

- 5 x Advanced major units 60cp

To complete the Bachelor of Business students will complete 192 credit points of course units, as outlined below:

- 8 Business School Core units (96 credit points) *
- 8 Major Core units (96 credit points)

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB123	Civil Engineering Systems
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB270	Civil Engineering Materials
EGB273	Principles of Construction
EGB275	Structural Mechanics
Year 3 - Semester 2	
EGB272	Traffic and Transport Engineering
EGB376	Steel Design
Year 4 - Semester 1	
EGB371	Engineering Hydraulics
EGB375	Design of Concrete Structures
Year 4 - Semester 2	
EGB373	Geotechnical Engineering
EGH472	Advanced Highway and Pavement Engineering
EGH471	Advanced Water Engineering
Year 5 - Semester 1	

Bachelor of Business/Bachelor of Engineering (Honours)

EGH400-1	Research Project 1
SEB400	Foundations of Research
EGH473	Advanced Geotechnical Engineering
Year 5 - Semester 2	
EGH475	Advanced Concrete Structures
EGH479	Advances in Civil Engineering Practice
EGH400-2	Research Project 2

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
EGB314	Strength of Materials
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB321	Dynamics of Machines
Year 4 - Semester 1	
EGB323	Fluid Mechanics
EGB316	Design of Machine Elements
Year 4 - Semester 2	
EGB322	Thermodynamics
EGH414	Stress Analysis
EGH421	Vibration and Control
Year 5 - Semester 1	
EGH423	Fluids Dynamics
SEB400	Foundations of Research
EGH400-1	Research Project 1
Year 5 - Semester 2	

EGH422	Advanced Thermodynamics
EGH420	Mechanical Systems Design
EGH400-2	Research Project 2

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
LSB131	Anatomy
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
Year 4 - Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
Year 4 - Semester 2	
EGB314	Strength of Materials
EGH418	Biomechanics
EGH424	Biofluids
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH414	Stress Analysis
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH438	Biomaterials
EGH435	Modelling and Simulation for Medical Engineers

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB361	Minerals and Minerals Processing
EGB260	Operations Management and Process Economics
CVB101	General Chemistry
Year 3 - Semester 2	
EGB211	Dynamics
EGB322	Thermodynamics
Year 4 - Semester 1	
EGB323	Fluid Mechanics
EGH461	Unit Operations
Year 4 - Semester 2	
EGB360	Plant and Process Design
EGB363	Safety and Environmental Management
EGH422	Advanced Thermodynamics
Year 5 - Semester 1	
EGH423	Fluids Dynamics
SEB400	Foundations of Research
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH411	Industrial Chemistry
EGH460	Advanced Process Modelling
EGH400-2	Research Project 2

Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Year 2 - Semester 1](#)
- [Year 2 - Semester 2](#)
- [Year 3 - Semester 1](#)

Bachelor of Business/Bachelor of Engineering (Honours)

- [Year 3 - Semester 2](#)
- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB220	Mechatronics Design 1
EGB242	Signal Analysis
EGB211	Dynamics
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB345	Control and Dynamic Systems
Year 4 - Semester 1	
EGB320	Mechatronics Design 2
EGH446	Autonomous Systems
Year 4 - Semester 2	
EGH445	Modern Control
Intermediate Electrical Option Unit	
Intermediate Mechanical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH419	Mechatronics Design 3
EGH400-1	Research Project 1
Year 5 - Semester 2	
Advanced Mechanical Option Unit	
Advanced Electrical Option Unit	
EGH400-2	Research Project 2

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering

Code	Title
Systems	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB241	Electromagnetics and Machines
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB340	Design and Practice
Advanced Electrical Option Unit	
Year 4 - Semester 2	
Intermediate Electrical Option Unit	
Intermediate Electrical Option Unit	
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
Advanced Electrical Option Unit	
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Electrical Option Unit	
Advanced Electrical Option Unit	

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability

Code	Title
and Professional Practice	
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB243	Aircraft Systems and Flight
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB349	Systems Engineering and Design Project
Advanced Electrical Option Unit	
Year 4 - Semester 2	
EGB345	Control and Dynamic Systems
EGB346	Unmanned Aircraft Systems
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH446	Autonomous Systems
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH445	Modern Control
EGH450	Advanced Unmanned Aircraft Systems

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	

Bachelor of Business/Bachelor of Engineering (Honours)

Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
CAB201	Programming Principles
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGH456	Embedded Systems
Intermediate Software Option Unit	
Year 4 - Semester 2	
CAB403	Systems Programming
EGH455	Advanced Systems Design
Intermediate Electrical or Software Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
Advanced Electrical Option Unit	
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Software Option Unit	
Advanced Electrical or Software Option Unit	

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](#)

Code	Title
Year 1 Semester 1	
BSB110	Accounting
BSB115	Management
Year 1 Semester 2	
BSB111	Business Law and Ethics
BSB124	Working in Business
Year 2 Semester 1	
AYB200	Financial Accounting
AYB225	Management Accounting
Year 2 Semester 2	
AYB221	Accounting Systems and Technologies
BSB113	Economics
Year 3 Semester 1	
EFB210	Finance 1
Year 3 Semester 2	
AYB321	Strategic Management Accounting

AYB340	Company Accounting
Year 4 Semester 1	
AYB219	Taxation Law
AYB230	Corporations Law
Year 4 Semester 2	
AYB301	Audit and Assurance
Year 5 Semester 1	
AYB311	Financial Accounting Issues
Year 5 Semester 2	
BSB126	Marketing

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](#)

Code	Title
Year 1 Semester 1	
BSB113	Economics
BSB126	Marketing
Year 1 Semester 2	
BSB110	Accounting
BSB115	Management
Year 2 Semester 1	
AMB220	Advertising Theory and Practice
BSB124	Working in Business
Year 2 Semester 2	
AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
Year 3 Semester 1	
BSB111	Business Law and Ethics
Year 3 Semester 2	
AMB318	Advertising Copywriting
AMB319	Media Planning
Year 4 Semester 1	
AMB320	Advertising Management
AMB330	Digital Portfolio
Year 4 Semester 2	
AMB339	Advertising Campaigns
Year 5 Semester 1	
BSB119	Global Business
Year 5 Semester 2	
MGB223	Entrepreneurship and Innovation

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](#)
- [Applied Economics Unit Options](#)
- [Quantitative Economics Unit Options](#)

Code	Title
Year 1 Semester 1	
BSB113	Economics
BSB115	Management
Year 1 Semester 2	
BSB110	Accounting
EFB223	Economics 2
Year 2 Semester 1	
EFB330	Intermediate Macroeconomics
EFB331	Intermediate Microeconomics
Year 2 Semester 2	
BSB111	Business Law and Ethics
Choose an elective from the Applied Economics or Quantitative Economics Unit Option lists	
Year 3 Semester 1	
Choose an elective from the Applied Economics or Quantitative Economics Unit Option lists	
Year 3 Semester 2	
BSB119	Global Business
Choose an elective from the Applied Economics or Quantitative Economics Unit Option lists	
Year 4 Semester 1	
BSB124	Working in Business
Choose an elective from the Applied Economics or Quantitative Economics Unit Option lists	
Year 4 Semester 2	
EFB338	Contemporary Application of Economic Theory
Year 5 Semester 1	
BSB126	Marketing
Year 5 Semester 2	
MGB223	Entrepreneurship and Innovation
Applied Economics Unit Options	
EFB201	Financial Markets
EFB225	Economics for the Real World
EFB226	Environmental Economics and Policy
EFB336	International Economics
Quantitative Economics Unit Options	
EFB222	Quantitative Methods for Economics and Finance
EFB332	Applied Behavioural Economics
EFB333	Introductory Econometrics
EFB337	Game Theory and Applications

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](#)

Code	Title
Year 1 Semester 1	
BSB113	Economics
BSB115	Management
Year 1 Semester 2	
BSB124	Working in Business

Bachelor of Business/Bachelor of Engineering (Honours)

BSB126	Marketing
Year 2 Semester 1	
BSB110	Accounting
MGB223	Entrepreneurship and Innovation
Year 2 Semester 2	
EFB201	Financial Markets
EFB210	Finance 1
Year 3 Semester 1	
BSB111	Business Law and Ethics
Year 3 Semester 2	
EFB343	Corporate Finance
EFB344	Risk Management and Derivatives
Year 4 Semester 1	
EFB223	Economics 2
EFB312	International Finance
Year 4 Semester 2	
BSB119	Global Business
Year 5 Semester 1	
EFB335	Investments
Year 5 Semester 2	
EFB360	Finance Capstone

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](#)

Code	Title
Year 1 Semester 1	
BSB113	Economics
BSB115	Management
Year 1 Semester 2	
BSB111	Business Law and Ethics
BSB124	Working in Business
Year 2 Semester 1	
MGB223	Entrepreneurship and Innovation
MGB200	Leading Organisations
Course Notes	
Human Resource Issues and Strategy	
Accounting	
Year 3 Semester 1	
MGB220	Human Resource Decision Making
Year 3 Semester 2	
MGB201	Contemporary Employment Relations
BSB126	Marketing
Year 4 Semester 1	
BSB119	Global Business
MGB339	Performance and Reward
Year 4 Semester 2	
MGB320	Recruitment and Selection
Year 5 Semester 1	
MGB331	Learning and Development in Organisations

Year 5 Semester 2	
MGB370	Personal and Professional Development

Semesters

- [Year 1 Semester 1](#)
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- [Year 4 Semester 1](#)
- [Year 4 Semester 2](#)
- [Year 5 Semester 1](#)
- [Year 5 Semester 2](#)

Code	Title
Year 1 Semester 1	
BSB119	Global Business
BSB126	Marketing
Year 1 Semester 2	
BSB110	Accounting
BSB115	Management
Year 2 Semester 1	
BSB113	Economics
MGB223	Entrepreneurship and Innovation
Year 2 Semester 2	
AMB210	Importing and Exporting
AYB227	International Accounting
Year 3 Semester 1	
BSB111	Business Law and Ethics
Year 3 Semester 2	
AMB303	International Logistics
MGB225	Intercultural Communication and Negotiation Skills
Year 4 Semester 1	
AMB336	International Marketing
EFB240	Finance for International Business
Year 4 Semester 2	
AMB369	International Business Strategy
Year 5 Semester 1	
BSB124	Working in Business
Year 5 Semester 2	
MGB340	International Business in the Asia-Pacific

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](#)

Code	Title
Year 1 Semester 1	
BSB113	Economics
BSB115	Management
Year 1 Semester 2	
BSB124	Working in Business
BSB126	Marketing
Year 2 Semester 1	
BSB110	Accounting

BSB119	Global Business
Year 2 Semester 2	
BSB111	Business Law and Ethics
MGB200	Leading Organisations
Year 3 Semester 1	
MGB201	Contemporary Employment Relations
Year 3 Semester 2	
MGB210	Managing Operations
MGB223	Entrepreneurship and Innovation
Year 4 Semester 1	
MGB225	Intercultural Communication and Negotiation Skills
MGB309	Strategic Management
Year 4 Semester 2	
MGB310	Sustainability in A Changing Environment
Year 5 Semester 1	
MGB324	Managing Business Growth
Year 5 Semester 2	
MGB335	Project Management

Semesters

- [Year 1 Semester 1](#)
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- [Year 3 Semester 1](#)
- [Year 3 Semester 2](#)
- [Year 4 Semester 1](#)
- [Year 4 Semester 2](#)
- [Year 5 Semester 1](#)
- [Year 5 Semester 2](#)

Code	Title
Year 1 Semester 1	
BSB113	Economics
BSB126	Marketing
Year 1 Semester 2	
BSB111	Business Law and Ethics
BSB115	Management
Year 2 Semester 1	
BSB124	Working in Business
BSB110	Accounting
Year 2 Semester 2	
AMB201	Marketing and Audience Research
AMB240	Marketing Planning and Management
Year 3 Semester 1	
AMB200	Consumer Behaviour
Year 3 Semester 2	
AMB202	Integrated Marketing Communication
AMB335	E-marketing Strategies
Year 4 Semester 1	
AMB340	Services Marketing
MGB223	Entrepreneurship and Innovation
Year 4 Semester 2	
AMB336	International Marketing
Year 5 Semester 1	
AMB359	Strategic Marketing
Year 5 Semester 2	
BSB119	Global Business

Bachelor of Business/Bachelor of Engineering (Honours)

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](#)

Code	Title
Year 1 Semester 1	
BSB119	Global Business
BSB126	Marketing
Year 1 Semester 2	
BSB110	Accounting
BSB115	Management
Year 2 Semester 1	
AMB201	Marketing and Audience Research
BSB113	Economics
Year 2 Semester 2	
AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques
Year 3 Semester 1	
AMB372	Public Relations Planning
Year 3 Semester 2	
AMB373	Issues, Stakeholders and Reputation
AMB374	Global Public Relations Cases
Year 4 Semester 1	
AMB375	Public Relations Management
MGB223	Entrepreneurship and Innovation
Year 4 Semester 2	
AMB379	Public Relations Campaigns
Year 5 Semester 1	
BSB111	Business Law and Ethics
Year 5 Semester 2	
BSB124	Working in Business

Foundation/Maths Alternative Unit Option List	
Code	Title
MZB125	Introductory Engineering Mathematics
(Only for students who haven't completed Maths C)	
BVB101	Foundations of Biology
CVB101	General Chemistry
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
EGB131	Natural Hazard Engineering
ERB102	Evolving Earth
ERB204	Deforming Earth
EVB102	Ecosystems and the Environment
EVB203	Geospatial Information Science
IFB104	Building IT Systems
MXB105	Calculus of One and Two Variables

MXB106	Linear Algebra and Differential Equations
MXB107	Statistical Models for Data: Relationships and Effects
MXB161	Computational Explorations
OUB110	Am I black enough? Indigenous Australian Representations
OUB130	Indigenous Knowledge: Research Ethics and Protocols
PVB102	Physics of the Very Small

Select 36cp from the Intermediate Electrical Unit Options below:	
Code	Title
EGB341	Energy Supply and Delivery
EGB342	Telecommunications and Signal Processing
EGB345	Control and Dynamic Systems
EGB348	Electronics

Select 60cp from the Advanced Electrical Unit Options below:	
Code	Title
EGH440	Power Systems Analysis
EGH441	Power System Modelling
EGH442	RF Techniques and Applications
EGH443	Advanced Telecommunications
EGH444	Digital Signals and Image Processing
EGH445	Modern Control
EGH446	Autonomous Systems
EGH448	Power Electronics
EGH449	Advanced Electronics

Handbook

Year	2015
QUT code	IX61
CRICOS	063030F
Duration (full-time)	4 years
OP	11
Rank	77
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$3,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,800 per Study Period (48 credit points)
Total credit points	
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); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au; or, 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 Update

This course is currently under review. The course structure is being redeveloped and is subject to university approval.

For course updates please visit www.qut.edu.au/coursechanges

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](#).

Domestic 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 Policy and Governance or Criminology and Policing (subject to final approval) 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.

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 Policy and Governance or Criminology and Policing (subject to final approval) 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 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](#)
- [Criminology and Policing Major Units](#)
- [Policy and Governance Major Units](#)

Code	Title
Year 1, Semester 1	
INB120	Corporate Systems
INB103	Industry Insights
JSB170	Introduction to Criminology and Policing
JSB171	Justice and Society
Year 1, Semester 2	
BSB115	Management
INB123	Project Management Practice
JSB173	Understanding the

Bachelor of Corporate Systems Management/Bachelor of Justice

	Criminal Justice System
JSB178	Policy, Governance and Justice
Year 2, Semester 1	
INB101	Impact of IT
INB122	Organisational Databases
JSB172	Professional Academic Skills
JSB175	Social Ethics and the Justice System
Year 2, Semester 2	
INB124	Information Systems Development
INB313	Electronic Commerce Site Development
JSB174	Forensic Psychology and the Law
Justice Study Area A Unit from list below (Criminology and Policing or Policy and Governance)	
Year 3, Semester 1	
INB220	Business Analysis
INB221	Technology Management
Justice Study Area A Unit from list below (Criminology and Policing or Policy and Governance)	
Justice Study Area A Unit from list below (Criminology and Policing or Policy and Governance)	
Year 3, Semester 2	
INB320	Business Process Modelling
MGB223	Entrepreneurship and Innovation
Justice Study Area A Unit from list below (Criminology and Policing or Policy and Governance)	
Justice Study Area A Unit from list below (Criminology and Policing or Policy and Governance)	
Year 4, Semester 1	
INB312	Enterprise Systems Applications
INB322	Information Systems Consulting
JSB381	Indigenous Issues in Criminal Justice
Justice Study Area A Unit from list below (Criminology and Policing or Policy and Governance)	
Year 4, Semester 2	
BSB126	Marketing
INB325	Corporate Systems Management Project
Justice Study Area A Unit from list below (Criminology and Policing or Policy and Governance)	
Justice Study Area A Unit from list below (Criminology and Policing or Policy and Governance)	
Criminology and Policing Major Units	
Complete 4 core units:	
JSB207	Punishment and Penal Policy
JSB272	Theories of Crime
JSB273	Crime Research Methods
JSB284	Policing in Context
Select 4 units from the below	
JSB157	Policing Diversity
JSB176	Criminal Law in Context

Crimes of Violence	
JSB183	White Collar Crime
JSB184	Sex and Crimes
JSB374	Crime Prevention
JSB208	Gender Crime and the Criminal Justice System
JSB255	Eco Crime
Statistical Methods	
JSB285	Political Violence and Terrorism
JSB278	Drugs and Crime
JSB209	Transnational Organised Crime and Terrorism
JSB276	Independent Study
JSB277	Independent Study
JSB372	Youth Justice
Professional Placement	
Death Investigation	
Information Management and Analysis	
Intelligence and Security	
Policy and Governance Major Units	
Complete 8 core units:	
JSB261	Theories of Government
Gender and Governance	
Justice Institutions	
Statistical Methods	
JSB265	Official Corruption
JSB273	Crime Research Methods
Political Practice	
Critical Policy Analysis	

Handbook

Year	2015
QUT code	IX62
CRICOS	063022F
Duration (full-time)	4 years
OP	9
Rank	82
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
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	Dr Taizan Chan (Corporate Systems Management); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au; or, Director of Studies, QUT Business School; email: bus@qut.edu.au
Discipline Coordinator	Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Radhika Lahiri (Economics); Dr Mark Doolan (Finance); Dr Adele Bish (Human Resource Management); Mr Michael Cox (International Business); Dr Mervyn Morris (Management); Mr Bill Proud (Marketing); and Dr Kim Johnston (Public Relations) Business Student Services - (07) 3138 2050 Business Student Services phone 3138 2050 or email bus@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 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 Update

This course is currently under review. The course structure is being redeveloped and is subject to university approval.

For course updates please visit www.qut.edu.au/coursechanges

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.

Business students complete 8 Business School Core Units together with 8 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:

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.

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 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	
Business Unit	
Business Unit	
INB103	Industry Insights
INB120	Corporate Systems
Year 1, Semester 2	
Business Unit	
Business Unit	
INB123	Project Management Practice
IX62 Complementary Studies unit	
Year 2, Semester 1	
Business Unit	
Business Unit	
INB101	Impact of IT
INB122	Organisational Databases
Year 2, Semester 2	
Business Unit	
Business Unit	
INB124	Information Systems Development
INB313	Electronic Commerce Site Development
Year 3, Semester 1	
Business Unit	
Business Unit	
INB220	Business Analysis
INB221	Technology Management
Year 3, Semester 2	
Business Unit	
Business Unit	
INB320	Business Process Modelling
IX62 Complementary Studies unit	
NOTE - For Management major students, please select MGB223 here (a prerequisite for MGB324) rather than in Y4S2. For all other students, please select an IX62 Complementary Studies unit.	
Year 4, Semester 1	
Business Unit	
Business Unit	
INB322	Information Systems Consulting
IAB351	Business in the Cloud
OR	
IAB350	Enterprise Systems Configuration
[INB312 is replaced by IAB351 (sem 1)/ IAB350 (sem 2) from 2015]	
Year 4, Semester 2	
Business Unit	
Business Unit	
INB325	Corporate Systems Management Project
MGB223	Entrepreneurship and Innovation
NOTE - For Management major students, please select an IX62 Complementary Studies unit here if completed MGB223 earlier. For all other students, please select MGB223.	

Handbook

Year	2015
QUT code	IX63
CRICOS	063024D
Duration (full-time)	4 years
OP	8
Rank	84
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
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 (Games and Interactive Entertainment); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au; or, Director of Studies, QUT Business School; email: bus@qut.edu.au
Discipline Coordinator	Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Radhika Lahiri (Economics); Dr Mark Doolan (Finance); Dr Adele Bish (Human Resource Management); Mr Michael Cox (International Business); Dr Mervyn Morris (Management); Mr Bill Proud (Marketing); and Dr Kim Johnston (Public Relations) Business: Student Services: (07) 3138 2050 Business: Student Services: bus@qut.edu.au

Domestic Assumed knowledge

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

- Maths A, B or C
- English

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

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 Update

This course will be offered in 2014, however the course structure is being redeveloped and is subject to university approval.

For course updates please visit www.qut.edu.au/coursechanges

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 Business School Core Units (96 credit points) together with a 96 credit point major.

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 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.

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.

Domestic Course structure

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.

Students must complete the 96 credit point Business School core units (eight units) in the business program together with a 96 credit point major (eight units)*.

Students will undertake the two components of the double degree concurrently.

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

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.

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

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	
Business School Core Unit - See Appendix 1	
Business School Core Unit - See Appendix 1	
INB180	Computer Games Studies
IFB103	Designing for IT

Bachelor of Business/Bachelor of Games and Interactive Entertainment

Year 1, Semester 2	
Business School Core Unit - See Appendix 1	
Business School Core Unit - See Appendix 1	
IFB102	Computer Technology Fundamentals
IFB104	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	
IFB101	Impact of IT
Games & Interactive Entertainment Major Unit	
Year 2, Semester 2	
Business School Core Unit - See Appendix	
Business School Core Unit - See Appendix	
Games & Interactive Entertainment Major Unit	
Games & Interactive Entertainment Major Unit	
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	
INB379	Game Project Design
Year 4, Semester 2	
Business School Major Unit - See Appendix	
Business School Major Unit - See Appendix	
INB380	Games Project

Semesters

- [Animation \[KKBXMJR-ANIMATN\]](#)
- [Game Design \[IT04MJR-GAMEDES\]](#)
- [Software Technologies \[IT04MJR-SOFTECH\]](#)

Code	Title
Animation [KKBXMJR-ANIMATN]	
*Description: This major provides you with important skills in the skills, principles, concepts and history of animation. Beginning with drawing for animation and an exploration of the history of the animation industry and its practices, you will then apply this knowledge to current and emerging fields within the animation industry including motion graphics, 3D modelling and animation, real-time 3D and character animation. Through the creation of an interactive virtual environment you will be given the opportunity to refine your skills and expand your knowledge of the 3D animation industry.	
*Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major.	
INTRODUCTORY ANIMATION UNIT OPTIONS: SELECT 48cp from the Introductory Animation Unit Options	
KNB123	Animation and Motion Graphics
KPB109	Film, Screen and Animation Histories
(KNB121 replaced by KPB109 in 2015.)	
KNB124	3D Animation 1
KNB112	Drawing for Animation 1

KNB122	Drawing for Animation 2
ADVANCED ANIMATION UNIT OPTIONS: SELECT 48cp from the Advanced Animation Unit Options	
KNB212	Real-time 3D Computer Graphics
KNB221	Animation: CG Toolkit
KNB211	3D Animation 2
KNB222	Virtual Environments
KNB312	Contemporary Issues in the Screen Industries
KNB311	Advanced Concepts in Computer Animation 1
Game Design [IT04MJR-GAMEDES]	
CAB210	People Context and Technology
(INB272 replaced by CAB210 in 2014.)	
INB280	Fundamentals of Game Design
INB281	Advanced Game Design
INB282	Games Level Design
DXB403	Design for Interactive Media
DXB304	Concept Development for Game Design and Interactive Media
DXB404	Enabling Immersion
DXB303	Programming for Visual Designers
Software Technologies [IT04MJR-SOFTECH]	
* Requirements for this Major is a SA or better in Queensland Maths B (or equivalent)	
CAB201	Programming Principles
(INB270 replaced by CAB201 in 2014.)	
CAB203	Discrete Structures
(INB250 replaced by CAB203 in 2014.)	
IAB130	Databases
(INB210 replaced by IAB130 in 2014.)	
MZB151	Mathematical Tools for Computing
(MAB281 replaced by MZB151 in 2014.)	
CAB302	Software Development
(INB370 replaced by CAB302 in 2015.)	
INB371	Data Structures and Algorithms
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
OR	
INB383	AI for Games

Handbook

Year	2015
QUT code	IX64
CRICOS	063031E
Duration (full-time)	4 years
OP	6
Rank	89
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
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 (Games and Interactive Entertainment); Dr Tim Moroney (Mathematics); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline 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).

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 Overview

In this double degree you will complete the requirements for two separate degrees in four years. The course consists of units in both games and interactive entertainment and mathematics. In the games and interactive entertainment component you will complete core units in introductory design, games studies, professional skills and basic programming and then choose a major from animation and computational arts; digital media; game design; and software technologies. In final year, you will participate in a major group project to produce a significant piece of work using PC, mobile devices, consoles or virtual reality.

In mathematics, you will complete core units that provide a foundation for both study and future work in mathematics and games and interactive entertainment, and then select units from the majors (for students commencing IX64 in 2014) decision science, applied and computational mathematics or statistical science. You are assisted throughout your course with choices to match your career aspirations and abilities. All these strands involve project work and real-world applications.

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).

Mathematics graduates are also employed across a wide range of areas. These include, but are not limited to, finance, investment, data analytics, defence and national security, research, information technology, environmental science, health, management, marketing, logistics, media, and education. In addition to their knowledge and skills in mathematics, graduates are also highly valued for their analytical and problem-solving skills.

Development of skills in communication, problem-solving, critical thinking and teamwork form an integral part of the course.

Professional Recognition

The software technologies major is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord. On graduation students may also be eligible for membership in the Australian Mathematical Society (AMS), ANZIAM (Australia and New Zealand Industrial and Applied Mathematics, a division of AMS), the Australian Society for Operations Research Inc. (ASOR) and the Statistical Society of Australia.

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](#).

Financial Support

You should consider applying for an industry-sponsored mathematics bursary to help you financially throughout your studies. For further information visit [Scholarships](#).

Domestic Course structure Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor of Games and Interactive Entertainment program and 192 credit points from the Bachelor of Mathematics program.

Games and Interactive Entertainment component:

- 8 Games and Interactive Entertainment Core units (96 credit points)
- 8 Major Core units (96 credit points)

Mathematics component:

- 6 Core units (72 credit points), which are further divided into 4 Mathematics Core units (48 credit points), and 2 Core Option units (24 credit points) selected from an approved list.
- 10 Major Core units (120 credit points)

Mathematics Core Units

These units give you the grounding in mathematical theory and practice upon which your major units will build, and also provide an introductory taste of each of the three majors: applied and computational mathematics; decision science; and statistical science.

Core Option Units

You may choose from a wide variety of introductory units from other disciplines offered at QUT, or you may choose additional mathematics units. The additional mathematics units include a unit specially designed to assist students without a background of successful study in Mathematics C at high school; an alternative unit aimed at high achieving students that explores some interesting and unusual aspects of mathematics in some detail; and a unit introducing the field of computational and simulation science which combines mathematics, science and computing to

simulate real-world problems.

International Course structure

Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor of Games and Interactive Entertainment program and 192 credit points from the Bachelor of Mathematics program.

Games and Interactive Entertainment component:

- 8 Games and Interactive Entertainment Core units (96 credit points)
- 8 Major Core units (96 credit points)

Mathematics component:

- 6 Core units (72 credit points), which are further divided into 4 Mathematics Core units (48 credit points), and 2 Core Option units (24 credit points) selected from an approved list.
- 10 Major Core units (120 credit points)

Mathematics Core Units

These units give you the grounding in mathematical theory and practice upon which your major units will build, and also provide an introductory taste of each of the three majors: applied and computational mathematics; decision science; and statistical science.

Core Option Units

You may choose from a wide variety of introductory units from other disciplines offered at QUT, or you may choose additional mathematics units. The additional mathematics units include a unit specially designed to assist students without a background of successful study in Mathematics C at high school; an alternative unit aimed at high achieving students that explores some interesting and unusual aspects of mathematics in some detail; and a unit introducing the field of computational and simulation science which combines mathematics, science and computing to simulate real-world problems.

Sample Structure Semesters

- [Games and Interactive Entertainment unit set:](#)
- [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](#)
- [NOTE:](#)

Code	Title
Games and Interactive Entertainment unit set:	
Year 1 Semester 1	
IFB101	Impact of IT
INB180	Computer Games Studies
Year 1 Semester 2	
IFB104	Building IT Systems
IFB102	Computer Technology Fundamentals
Year 2 Semester 1	
IFB103	Designing for IT
Games & Interactive Entertainment Major*	
Year 2 Semester 2	
Games & Interactive Entertainment Major*	
Games & Interactive Entertainment Major*	
Year 3 Semester 1	
Games & Interactive Entertainment Major*	

Games & Interactive Entertainment Major*	
Year 3 Semester 2	
Games & Interactive Entertainment Major*	
Games & Interactive Entertainment Major*	
Year 4 Semester 1	
INB379	Game Project Design
Games & Interactive Entertainment Major*	
Year 4 Semester 2	
INB380	Games Project
NOTE:	
* Refer to "Bachelor of Games & Interactive Entertainment Majors Course structure (Block B)" under Units List for the major's unit sets.	

Handbook

Year	2015
QUT code	IX65
CRICOS	063032D
Duration (full-time)	4 years
OP	13
Rank	73
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,600 per Study Period (48 credit points)
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	Dr Marion Bateson (Science), Mike Roggenkamp (Games and Interactive Entertainment); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	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)

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 Chemistry, Physics, Biology, Earth Science or 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

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.

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	
Applied Science Unit	
INB180	Computer Games Studies
IFB104	Building IT Systems
Year 1, Semester 2	
Applied Science Unit	
Applied Science Unit	
INB181	Introduction to Games Production
IFB103	Designing for IT
Year 2, Semester 1	
Applied Science Unit	
Applied Science Unit	
INB103	Industry Insights
Games & Interactive Entertainment Major Unit	
Year 2, Semester 2	
Applied Science Unit	
Applied Science Unit	
Games & Interactive Entertainment Major Unit	
Games & Interactive Entertainment Major Unit	
Year 3, Semester 1	
Applied Science Unit	
Applied Science Unit	
Games & Interactive Entertainment Major Unit	
Games & Interactive Entertainment Major Unit	
Year 3, Semester 2	
Applied Science Unit	
Applied Science Unit	
Games & Interactive Entertainment Major Unit	
Games & Interactive Entertainment Major Unit	
Year 4, Semester 1	
Applied Science Unit	
Applied Science Unit	
INB379	Game Project Design
Games & Interactive Entertainment Major Unit	
Year 4, Semester 2	
Applied Science Unit	

Bachelor of Applied Science/Bachelor of Games and Interactive Entertainment

Applied Science Unit	
INB380	Games Project

Handbook

Year	2015
QUT code	IX69
CRICOS	064812A
Duration (full-time)	4 years
OP	12
Rank	74
OP Guarantee	Yes
Campus	Kelvin Grove, Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,500 per Study Period (48 credit points)
Total credit points	384
Dom. Start Months	February
Deferral	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Head of Studies, MECA (Creative Industries); Mr Mike Roggenkamp (Information Technology); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Associate Professor Gavin Sade (Interactive and Visual Design) CI: +61 7 3138 8114 ci@qut.edu.au (Interactive and Visual Design)

Domestic Assumed knowledge

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

- Maths A, B or C
- English

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

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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

Professional Recognition

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

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.

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 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.

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 met entry requirements.

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 and permanent residents only.

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

Domestic 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 has majors in Information Systems and Computer Science the Major Study Area A will be shown on a graduate's parchment.

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 has majors in Information Systems and Computer Science the Major Study Area A will be shown on a graduate's parchment.

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](#)

Bachelor of Fine Arts (Interactive and Visual Design)/Bachelor of Information Technology

Code	Title
Year 1, Semester 1	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
DXB101	Design and Creative Thinking
DXB102	Visual Communication
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
DXB201	Visual Interactions
DXB203	Introduction to Web Design
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
DXB403	Design for Interactive Media
KNB112	Drawing for Animation 1
Year 2, Semester 2	
IT Major Unit	
IT Major Unit	
DXB202	Image Production
KNB123	Animation and Motion Graphics
Year 3, Semester 1	
IT Major Unit	
IT Major Unit	
DXB301	Interface Design
DXB302	Typographic Design
Year 3, Semester 2	
IT Major Unit	
IT Major Unit	
DXB401	Advanced Web Design
DXB402	Theories of Visual Communication
Year 4, Semester 1	
IT Major Unit	
IT Major Unit	
DXH702	Contemporary Issues in IVD
SEMESTER 1 UNIT OPTIONS:	
One unit from the Semester 1 Unit Options (DXB501 or DXB502):	
DXB501	Tangible Media
DXB502	Visual Information Design
Year 4, Semester 2	
IT Major Unit	
IT Major Unit	
DXH803	Professional Practice for Designers
SEMESTER 2 UNIT OPTIONS:	
One unit from the Semester 2 Unit Options (DXH601 or DXH602)	
DXH601	Integrated Experience Design
DXH602	Embodied Interactions

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
CAB201	Programming Principles
CAB202	Microprocessors and Digital Systems
Year 3, Semester 1	
CAB203	Discrete Structures
CAB302	Software Development
Year 3, Semester 2	
CAB303	Networks
IFB299	Application Design and Development
Year 4, Semester 1	
CAB301	Algorithms and Complexity
CAB398	Capstone Project (Phase 1)
Year 4, Semester 2	
CAB399	Capstone Project (Phase 2)
Select one of:	
CAB401	High Performance and Parallel Computing
CAB402	Programming Paradigms
CAB403	Systems Programming

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
IAB201	Modelling Information Systems
IAB202	Business of Information Technology
Year 3, Semester 1	
IAB203	Business Process

	Modelling
IAB204	Business Analysis
Year 3, Semester 2	
IAB205	Corporate Systems
IFB299	Application Design and Development
Year 4, Semester 1	
IAB398	Capstone Project Part 1 - Design
Select one of:	
IAB302	Information Systems Consulting
IAB303	Business Intelligence
IAB304	Project Management
Year 4, Semester 2	
IAB399	Capstone Project
IAB301	Enterprise Architecture

Handbook

Year	2015
QUT code	IX72
CRICOS	066294B
Duration (full-time)	5.5 years
OP	5
Rank	92
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
Total credit points	528
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	Dr Marion Bateson (Science); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au; or, Jennifer Yule (Law)
Discipline Coordinator	Dr Perry Hartfield (Biochemistry); Dr Marion Bateson (Biotechnology); Associate Professor Dennis Arnold (Chemistry); Dr Ian Williamson (Ecology); Dr Ian Williamson (Environmental Science); Dr Emad Kirjakous (Forensic Science); Dr Craig Sloss (Geoscience); Dr Christine Knox (Microbiology); Dr Stephen Hughes (Physics); Jennifer Yule (Law) Science: +61 7 3138 8822; sef.enquiry@qut.edu.au / 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

- 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

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.

Domestic 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 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](#)

Code	Title
Year 1, Semester 1	
Science Unit	
Science Unit	
LWB145	Legal Foundations A
LWB147	Torts A
Year 1, Semester 2	
Science Unit	
Science Unit	
LWB146	Legal Foundations B
LWB148	Torts B
Year 2, Semester 1	
Science Unit	
Science Unit	

Bachelor of Applied Science/Bachelor of Laws

LWB136	Contracts A
LWB238	Fundamentals of Criminal Law
Year 2, Semester 2	
Science Unit	
Science Unit	
LWB137	Contracts B
LWB239	Criminal Responsibility
Year 3, Semester 1	
Science Unit	
Science Unit	
LWB240	Principles of Equity
LWB243	Property Law A
Year 3, Semester 2	
Science Unit	
Science Unit	
LWB241	Trusts
LWB244	Property Law B
Year 4, Semester 1	
Science Unit	
Science Unit	
LWB242	Constitutional Law
LWB432	Evidence
Year 4, Semester 2	
Science Unit	
Science Unit	
LWB334	Corporate Law
Law Elective	
Year 5, Semester 1	
LWB335	Administrative Law
LWB431	Civil Procedure
Law Elective	
Law Elective	
Year 5, Semester 2	
LWB433	Professional Responsibility
Law Elective	
Law Elective	
Law Elective	
Year 6, Semester 1	
Law Elective	
Law Elective	
Law Elective	
Law Elective	

Handbook

Year	2015
QUT code	IX80
CRICOS	083029M
Duration (full-time)	5.5 years
OP	5
Rank	91
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,100 per Study Period (48 credit points)
Total credit points	528
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	Dr Graham Johnson (Science); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au; Jennifer Yule (Law); ph: +61 7 3138 2707; Email: lawandjustice@qut.edu.au
Discipline Coordinator	Jennifer Yule (Law); Dr Marion Bateson (Biological Science); Associate Professor Eric Waclawik (Chemistry); Dr Jessica Trofimovs (Earth Science); Dr Andrew Baker (Environmental Science); and Dr Kristy Vernon (Physics). Science: +61 7 3138 8822; Law: +61 7 3138 2707 Science: sef.enquiry@qut.edu.au; Law: lawandjustice@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 (4, SA). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or 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.

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 Structure Information

Students are required to complete 528 credit points, comprised of 192 credit points for the Bachelor of Science program and 336 credit points for the Bachelor of Laws program. You will study science and law units in your first four years and for the remainder of this course you will concentrate on law studies.

Under the Science component students will complete 16 units in total. Students will choose any of the following science majors that are offered in the Bachelor of Science (ST01) course: biology, chemistry, earth science, environmental science and physics.

Under the Law component students will complete 336 credit points of core units and a mixture of Introductory, General and Advanced Electives. Students may select up to 48 credit points of non-law electives or 48 credit points of a University-wide minor in place of four of the General Electives. Successful completion of a minor will be recognised on the Academic Record and / or the Australian Higher Education Graduation Statement.

Total Law credit points: 336
Total credit points for core units: 240
Total credit points for elective units: 96
Honours Level Units

96 credit points of Honours units listed below will be used to determine the Honours Levels of the LLB (Hons):
LLH201 Legal Research,
LLH206 Administrative Law,
LLH302 Ethics and the Legal Profession,
LLH305 Corporate Law,
LLH401 Legal Research Capstone (24 cps) and two Advanced Electives in law.

Professional Recognition

The QUT LLB (Hons) is an approved degree for the purposes of the Legal Practitioners Admission Rules. Accordingly, it enables graduates to satisfy the academic requirements for admission to practise as a solicitor and/or barrister in all Australian states and territories.

Graduates will satisfy the requirements for membership in the relevant professional body for their science major.

Admission to practice

If, at the end of your degree, you wish to become a legal practitioner, you will need to complete further practical legal training (PLT). QUT also offers PLT in the form of the Graduate Diploma in Legal Practice.

Career Outcomes

As a graduate, you may enter legal practice with an education in both the content and process of science and data analysis that will enable you to deal with the complexities of litigation that have a scientific and technological dimension, such as inventions, trade secrets, quantitative evidence, and constitutional disputes giving rise to environmental issues. On the other hand, you may choose to follow a career path in the sciences, enhancing your opportunities in a particular discipline such as environmental science or biotechnology through your knowledge of the law.

You will graduate with specialised knowledge of cutting-edge technologies and extensive practical experience using the latest techniques. You have a broad range of options to choose from and the flexibility to create your own personal science degree program.

In developing the LLB (Hons) the Faculty recognises that graduates are increasingly seeking a broad range of careers including, but not limited to, legal practice. The defining nature of the QUT LLB (Hons) is its real-world applied nature which will equip you with advanced knowledge and research and other skills and that meet the needs of not only the legal profession, but also government, community organisations, business and industry.

The LLB (Hons) provides students with an opportunity to advance their knowledge of law in specialised areas through the elective units offered as part of the course. The elective units allow you to study areas of the law that match your career aspirations. Career opportunities include working in general legal practice, specialist legal practice, government departments and employment in private enterprise.

Non-standard attendance

Field work is a requirement in some areas of science.

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more at [deferment](#)

Domestic Course structure

Students are required to complete 528 credit points, comprised of 192 credit points for the Bachelor of Science program and 336 credit points for the Bachelor of Laws program. You will study science and law units in your first four years and for the remainder of this course you will concentrate on law studies.

Under the Science component students will complete 16 units in total. Students will choose any of the following science majors that are offered in the [Bachelor of Science](#) (ST01) course: biology, chemistry, earth science, environmental science and physics.

Bachelor of Science/Bachelor of Laws (Honours)

Under the Law component students will complete 336 credit points of core units and a mixture of Introductory, General and Advanced Electives. Students may select up to 48 credit points of non-law electives or 48 credit points of a University-wide minor in place of four of the General Electives. Successful completion of a minor will be recognised on the Academic Record and / or the Australian Higher Education Graduation Statement.

Total Law credit points: 336
Total credit points for core units: 240
Total credit points for elective units: 96

Honours Level Units

96 credit points of Honours units listed below will be used to determine the Honours Levels of the LLB (Hons):

LLH201 Legal Research,
LLH206 Administrative Law,
LLH302 Ethics and the Legal Profession,
LLH305 Corporate Law,
LLH401 Legal Research Capstone (24 cps) and two Advanced Electives in law.

International Course structure

Students are required to complete 528 credit points, comprised of 192 credit points for the Bachelor of Science program and 336 credit points for the Bachelor of Laws program. You will study science and law units in your first four years and for the remainder of this course you will concentrate on law studies.

Under the Science component students will complete 16 units in total. Students will choose any of the following science majors that are offered in the [Bachelor of Science](#) (ST01) course: biology, chemistry, earth science, environmental science and physics.

Under the Law component students will complete 336 credit points of core units and a mixture of Introductory, General and Advanced Electives. Students may select up to 48 credit points of non-law electives or 48 credit points of a University-wide minor in place of four of the General Electives. Successful completion of a minor will be recognised on the Academic Record and / or the Australian Higher Education Graduation Statement.

Total Law credit points: 336
Total credit points for core units: 240
Total credit points for elective units: 96

Honours Level Units

96 credit points of Honours units listed below will be used to determine the Honours Levels of the LLB (Hons):

LLH201 Legal Research,
LLH206 Administrative Law,
LLH302 Ethics and the Legal Profession,
LLH305 Corporate Law,
LLH401 Legal Research Capstone (24 cps) and two Advanced Electives in law.

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](#)
- [Elective Information](#)

Code	Title
Year 1 Semester 1	
LLB101	Introduction to Law
LLB102	Torts
SEB115	Experimental Science 1
SEB116	Experimental Science 2
Year 1 Semester 2	
LLB105	Legal Problems and Communication
LLB106	Criminal Law
Science Core Unit	
Science Core Unit	
Year 2 Semester 1	
LLB104	Law in Context
LLB103	Dispute Resolution
SEB104	Grand Challenges in Science
OR Science Core Unit Option	
SEB113	Quantitative Methods in Science
OR Science Core Unit Option	
[SEB104, SEB113, and the 2 Science Core Unit Options are to be undertaken in Year 2, but the order is flexible.]	
Year 2 Semester 2	
LLH201	Legal Research
Introductory Law Elective	
SEB104	Grand Challenges in Science
OR Science Core Option	
SEB113	Quantitative Methods in Science
OR Science Core Option	
Year 3 Semester 1	
LLB202	Contract Law
LLB203	Constitutional Law
Science Major Unit	
Science Major Unit	
Year 3 Semester 2	
LLB204	Commercial and Personal Property Law
LLB205	Equity and Trusts
Science Major Unit	
Science Major Unit	
Year 4 Semester 1	
LLB301	Real Property Law
General Law Elective	
Science Major Unit	
Science Major Unit	
Year 4 Semester 2	
LLH206	Administrative Law
LLB303	Evidence
Science Major Unit	
Science Major Unit	
Year 5 Semester 1	
LLH302	Ethics and the Legal Profession
LLB304	Commercial Remedies
General Law Elective or Non-law Elective or University-wide Minor Unit	
General Law Elective or Non-law Elective or University-wide Minor Unit	
Year 5 Semester 2	
LLH305	Corporate Law
LLB306	Civil Procedure
General Law Elective or Non-law Elective or University-wide Minor Unit	

Code	Title
General Law Elective or Non-law Elective or University-wide Minor Unit	
Year 6 Semester 1	
LLH401	Legal Research Capstone
Advanced Law Elective	
Advanced Law Elective	
Elective Information	
Students may complete up to 4 non-law electives or a university wide minor comprised of 4 units in place of the equivalent number of general law electives.	

Semesters

- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)

Code	Title
Year 1, Semester 2	
BVB101	Foundations of Biology
BVB102	Evolution
Year 2, Semester 1	
BVB201	Biological Processes
BVB202	Experimental Design and Quantitative Methods
Year 2, Semester 2	
BVB203	Plant Biology
BVB204	Ecology
Year 3, Semester 1	
BVB301	Animal Biology
BVB305	Microbiology and the Environment
Year 3, Semester 2	
BVB302	Applied Biology
BVB304	Integrative Biology

Semesters

- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)

Code	Title
Year 1, Semester 2	
CVB101	General Chemistry
CVB102	Chemical Structure and Reactivity
Year 2, Semester 1	
CVB201	Inorganic Chemistry
CVB202	Analytical Chemistry
Year 2, Semester 2	
CVB203	Physical Chemistry
CVB204	Organic Structure and Mechanisms
Year 3, Semester 1	
CVB301	Organic Chemistry: Strategies for Synthesis
CVB302	Applied Physical Chemistry
Year 3, Semester 2	
CVB303	Coordination Chemistry
CVB304	Chemistry Research Project

Semesters

- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)

Bachelor of Science/Bachelor of Laws (Honours)

- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)

Code	Title
Year 1, Semester 2	
ERB101	Earth Systems
ERB102	Evolving Earth
Year 2, Semester 1	
ERB201	Destructive Earth
ERB202	Marine Geoscience
Year 2, Semester 2	
ERB203	Sedimentary Geology and Stratigraphy
ERB204	Deforming Earth
Year 3, Semester 1	
ERB301	Chemical Earth
ERB302	Applied Geophysics
Year 3, Semester 2	
ERB303	Energy Resources and Basin Analysis
ERB304	Dynamic Earth:Plate Tectonics

Semesters

- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)

Code	Title
Year 1, Semester 2	
ERB101	Earth Systems
EVB102	Ecosystems and the Environment
Year 2, Semester 1	
EVB201	Global Environmental Issues
BVB202	Experimental Design and Quantitative Methods
Year 2, Semester 2	
EVB203	Geospatial Information Science
EVB212	Soils and the Environment
Year 3, Semester 1	
EVB301	Urban and Natural Environmental Systems
EVB302	Environmental Pollution
Year 3, Semester 2	
ENB380	Environmental Law and Assessment
EVB304	Case Studies in Environmental Science

Semesters

- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)

Code	Title
Year 1, Semester 2	
PVB101	Physics of the Very Large
PVB102	Physics of the Very Small
Year 2, Semester 1	
PVB200	Computational and Mathematical Physics

Code	Title
PVB203	Experimental Physics
[PVB201 replaced by PVB200 in 2015.]	
Year 2, Semester 2	
PVB202	Mathematical Methods in Physics
PVB204	Electromagnetism
Year 3, Semester 1	
PVB301	Materials and Thermal Physics
PVB302	Classical and Quantum Physics
Year 3, Semester 2	
PVB303	Nuclear and Particle Physics
PVB304	Physics Research

Before enrolling in an option (elective) unit, you must ensure you have met any pre- or co-requisite requirements. You can check this by referring to the unit outlines on [QUT Virtual](#).

Introductory Law Electives	
Code	Title
LLB140	Human Rights Law
LLB141	Introduction to International Law
LLB142	Regulation of Business

General Law Electives List	
Code	Title
LLB240	Chinese Legal System
LLB241	Discrimination and Employment Law
LLB242	Media Law
LLB243	Family Law
LLB244	Criminal Law Sentencing
LLB340	Banking and Finance Law
LLB342	Immigration and Refugee Law
LLB343	Indigenous Cultural Heritage Law
LLB344	Intellectual Property Law
LLB345	Internet Law
LLB346	Succession Law
LLB347	Taxation Law
LLB440	Environmental Law
LLB443	Mining and Resources Law
LLB444	Real Estate Transactions
LLB445	International Commercial Arbitration
LLB460	Competition Moots A
LLB461	Competition Moots B
LLB462	Learning in Professional Practice
LLB463	Legal Clinic (Organised Program)
LLB464	Legal Clinic (Advanced)
LLB463 and LLB464 Apply through InPlace on QUT Virtual.	
The work application should contain this hyperlink https://inplace.qut.edu.au	

Advanced Law Electives	
Code	Title
LLH470	Commercial Contracts in Practice
LLH471	Health Law and Practice
LLH472	Public International Law
LLH473	Independent Research Project
LLH474	Insolvency Law
LLH475	Theories of Law
LLH476	Competition Law

Handbook

Year	2015
QUT code	IX87
CRICOS	083025D
Duration (full-time)	5.5 years
OP	5
Rank	91
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,500 per Study Period (48 credit points)
Total credit points	528
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	Mr Mike Roggenkamp (Information Technology); ph: 61 7 3138 8822; email: sef.enquiry@qut.edu.au; or, School of Law, Director of Undergraduate Programs: Jen Yule Amanda Stickley(Law Curriculum) and Jen Yule (Law Students)
Discipline Coordinator	Law: Jennifer Yule; IT: Professor Colin Fidge (Computer Science); and Taizan Chan (Information Systems). Law: +61 7 3138 2707; IT: +61 7 3138 8822 Law: lawandjustice@qut.edu.au; IT: sef.enquiry@qut.edu.au

Domestic Assumed knowledge

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

- Maths A, B or C
- English

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

International Subject prerequisites

- English

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 structure information

Students are required to complete 528 credit points, comprised of 192 credit points for the Bachelor of Information Technology program and 336 credit points for the Bachelor of Laws program.

Requirements for the completion of the Bachelor of Information Technology component are as follows:

- 72 credit points (6 units) of IT Core units, which includes 24 credit points (2 units) of Option Units selected from an approved list.
- 120 credit points (10 units) of Major Core units

Information Technology Majors

Choose your primary area of study, also known as your major, in the following specialisation areas: Information Systems or Computer Science.

Information Technology Options List

The Bachelor of Information Technology Core Unit Options List comprises a range of units from which you choose to undertake two (2). The options include introductory units from a wide variety of disciplines offered at QUT.

Under the Law component students will complete 336 credit points of core units and a mixture of Introductory, General and Advanced Electives. Students may select up to 48 credit points of non-law electives or 48 credit points of a University-wide minor in place of four of the General Electives. Successful completion of a minor will be recognised on the Academic Record and / or the Australian Higher Education Graduation Statement.

Total Law credit points: 336
Total credit points for core units: 240
Total credit points for elective units: 96

Honours Level Units

96 credit points of Honours units listed below will be used to determine the Honours Levels of the LLB (Hons):

LLH201 Legal Research,

LLH206 Administrative Law,
LLH302 Ethics and the Legal Profession,
LLH305 Corporate Law,
LLH401 Legal Research Capstone (24 cps) and two Advanced Electives in law.

Professional Recognition

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

The QUT LLB (Hons) is an approved degree for the purposes of the Legal Practitioners Admission Rules. Accordingly, it enables graduates to satisfy the academic requirements for admission to practise as a solicitor and/or barrister in all Australian states and territories.

Admission to practice

If, at the end of your degree, you wish to become a legal practitioner, you will need to complete further practical legal training (PLT). QUT also offers PLT in the form of the Graduate Diploma in Legal Practice.

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 e-government service delivery and political campaigning.

In developing the LLB (Hons) the Faculty recognises that graduates are increasingly seeking a broad range of careers including, but not limited to, legal practice. The defining nature of the QUT LLB (Hons) is its real-world applied nature which will equip you with advanced knowledge and research and other skills and that meet the needs of not only the legal profession, but also government, community organisations, business and industry.

The LLB (Hons) provides students with an opportunity to advance their knowledge of law in specialised areas through the elective units offered as part of the course. The elective units allow you to study areas of the law that match your career aspirations. Career opportunities include working in general legal practice, specialist legal practice, government departments and employment in private enterprise.

Pathways to Further Studies

The QUT Bachelor of Information Technology is located at Level 7 of the Australian Qualifications Framework (AQF). Eligible graduates may continue their studies in this discipline with an additional honours year in (IN10) Bachelor of Information Technology (Honours).

On successful completion of the Bachelor of Laws, there are a number of further study options open to you. The Bachelor of Laws meets the entry requirements for Practical Legal Training courses (for example, the QUT Graduate Diploma in Legal Practice). In addition, successful completion of the law degree will allow you to pursue postgraduate opportunities through research- and coursework-based higher degrees in law.

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more at [deferment](#)

Bachelor of Information Technology/Bachelor of Laws (Honours)

Domestic Course structure

Students are required to complete 528 credit points, comprised of 192 credit points for the Bachelor of Information Technology program and 336 credit points for the Bachelor of Laws program.

Requirements for the completion of the Bachelor of Information Technology component are as follows:

1. 72 credit points (6 units) of IT Core units, which includes 24 credit points (2 units) of Option Units selected from an approved list.
2. (b) 120 credit points (10 units) of Major Core units

Information Technology Majors

Choose your primary area of study, also known as your major, in the following specialisation areas: Information Systems or Computer Science.

Information Technology Options List

The Bachelor of Information Technology Core Unit Options List comprises a range of units from which you choose to undertake two (2). The options include introductory units from a wide variety of disciplines offered at QUT.

Under the Law component students will complete 336 credit points of core units and a mixture of Introductory, General and Advanced Electives. Students may select up to 48 credit points of non-law electives or 48 credit points of a University-wide minor in place of four of the General Electives. Successful completion of a minor will be recognised on the Academic Record and / or the Australian Higher Education Graduation Statement.

Total Law credit points: 336
Total credit points for core units: 240
Total credit points for elective units: 96

Honours Level Units

96 credit points of Honours units listed below will be used to determine the Honours Levels of the LLB (Hons):
LLH201 Legal Research,
LLH206 Administrative Law,
LLH302 Ethics and the Legal Profession,
LLH305 Corporate Law,
LLH401 Legal Research Capstone (24 cps) and two Advanced Electives in law.

International Course structure

Students are required to complete 528 credit points, comprised of 192 credit points for the Bachelor of Information Technology program and 336 credit points for the Bachelor of Laws program.

Requirements for the completion of the Bachelor of Information Technology component are as follows:

1. 72 credit points (6 units) of IT Core units, which includes 24 credit points (2 units) of Option Units selected from an approved list.
2. (b) 120 credit points (10 units) of Major Core units

Information Technology Majors

Choose your primary area of study, also known as your major, in the following specialisation areas: Information Systems or Computer Science.

Information Technology Options List

The Bachelor of Information Technology Core Unit Options List comprises a range of units from which you choose to undertake two (2). The options include introductory units from a wide variety of disciplines offered at QUT.

Under the Law component students will complete 336 credit points of core units and a mixture of Introductory, General and Advanced Electives. Students may select up to 48 credit points of non-law electives or 48 credit points of a University-wide minor in place of four of the General Electives. Successful completion of a minor will be recognised on the Academic Record and / or the Australian Higher

Education Graduation Statement.

Total Law credit points: 336
Total credit points for core units: 240
Total credit points for elective units: 96

Honours Level Units

96 credit points of Honours units listed below will be used to determine the Honours Levels of the LLB (Hons):
LLH201 Legal Research,
LLH206 Administrative Law,
LLH302 Ethics and the Legal Profession,
LLH305 Corporate Law,
LLH401 Legal Research Capstone (24 cps) and two Advanced Electives in law.

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](#)

Code	Title
Year 1, Semester 1	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
LLB101	Introduction to Law
LLB102	Torts
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
LLB105	Legal Problems and Communication
LLB106	Criminal Law
Year 2, Semester 1	
IT Core Option Unit	
IT Core Option Unit	
LLB103	Dispute Resolution
LLB104	Law in Context
Year 2, Semester 2	
IT Major Unit	
IT Major Unit	
Introductory Law Elective	
LLH201	Legal Research
Year 3, Semester 1	
IT Major Unit	
IT Major Unit	
LLB202	Contract Law
LLB203	Constitutional Law
Year 3, Semester 2	
IT Major Unit	
IT Major Unit	
LLB204	Commercial and Personal Property Law
LLB205	Equity and Trusts
Year 4, Semester 1	
IT Major Unit	
IT Major Unit	
LLB301	Real Property Law
General Law Elective	
Year 4, Semester 2	

IT Major Unit	
IT Major Unit	
LLH206	Administrative Law
LLB303	Evidence
Year 5, Semester 1	
LLH302	Ethics and the Legal Profession
LLB304	Commercial Remedies
General Law Elective or Non-law Elective or University-wide Minor Unit	
General Law Elective or Non-law Elective or University-wide Minor Unit	
Year 5, Semester 2	
LLH305	Corporate Law
LLB306	Civil Procedure
General Law Elective or Non-law Elective or University-wide Minor Unit	
General Law Elective or Non-law Elective or University-wide Minor Unit	
Year 6, Semester 1	
LLH401	Legal Research Capstone
Advanced Law Elective	
Advanced Law Elective	

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
CAB201	Programming Principles
CAB202	Microprocessors and Digital Systems
Year 3, Semester 1	
CAB203	Discrete Structures
CAB302	Software Development
Year 3, Semester 2	
CAB303	Networks
IFB299	Application Design and Development
Year 4, Semester 1	
CAB301	Algorithms and Complexity
CAB398	Capstone Project (Phase 1)
Year 4, Semester 2	
CAB399	Capstone Project (Phase 2)
Select one of:	
CAB401	High Performance and Parallel Computing

Bachelor of Information Technology/Bachelor of Laws (Honours)

CAB402	Programming Paradigms
CAB403	Systems Programming

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
IAB201	Modelling Information Systems
IAB202	Business of Information Technology
Year 3, Semester 1	
IAB203	Business Process Modelling
IAB204	Business Analysis
Year 3, Semester 2	
IAB205	Corporate Systems
IFB299	Application Design and Development
Year 4, Semester 1	
IAB398	Capstone Project Part 1 - Design
Select one of:	
IAB302	Information Systems Consulting
IAB303	Business Intelligence
IAB304	Project Management
Year 4, Semester 2	
IAB399	Capstone Project
IAB301	Enterprise Architecture

Before enrolling in an option (elective) unit, you must ensure you have met any pre- or co-requisite requirements. You can check this by referring to the unit outlines on [QUT Virtual](#).

Introductory Law Electives	
Code	Title
LLB140	Human Rights Law
LLB141	Introduction to International Law
LLB142	Regulation of Business

General Law Electives List	
Code	Title
LLB240	Chinese Legal System
LLB241	Discrimination and Employment Law
LLB242	Media Law

LLB243	Family Law
LLB244	Criminal Law Sentencing
LLB340	Banking and Finance Law
LLB342	Immigration and Refugee Law
LLB343	Indigenous Cultural Heritage Law
LLB344	Intellectual Property Law
LLB345	Internet Law
LLB346	Succession Law
LLB347	Taxation Law
LLB440	Environmental Law
LLB443	Mining and Resources Law
LLB444	Real Estate Transactions
LLB445	International Commercial Arbitration
LLB460	Competition Moots A
LLB461	Competition Moots B
LLB462	Learning in Professional Practice
LLB463	Legal Clinic (Organised Program)
LLB464	Legal Clinic (Advanced)
LLB463 and LLB464 Apply through InPlace on QUT Virtual.	
The work application should contain this hyperlink https://inplace.qut.edu.au	

Advanced Law Electives	
Code	Title
LLH470	Commercial Contracts in Practice
LLH471	Health Law and Practice
LLH472	Public International Law
LLH473	Independent Research Project
LLH474	Insolvency Law
LLH475	Theories of Law
LLH476	Competition Law

Handbook

Year	2015
QUT code	SC20
CRICOS	049434C
Duration (full-time)	4 years
Rank	87
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,600 per Study Period (48 credit points)
Total credit points	384
Credit points full-time sem.	48
Dom. Start Months	February
Deferral	You can defer your offer and postpone the start of your course for one year.
Course Coordinator	Dr Marion Bateson (Science Major); Dr Tim Moroney (Mathematics); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

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)). Recommended Study: Maths C and at least one of Chemistry, Physics, Biology, Earth Science or Maths C.

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 biochem, biotech, 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

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](#).

In this list

- [Level 1 Units:](#)
- [Level 2 and 3 Mathematics Units:](#)
- [Level 2 and 3 Science Units:](#)
- [Science Elective Units:](#)

Course Notes	
Code	Title
As of 2013, the below Level 1 Science Foundation units will no longer be available. Only SCB111 will be available for Semester 1 2013, and then discontinued. Students who have not completed these units prior to 2013, should undertake the replacement unit stated in the revised SC01 course structure related to their major.	
Also, as of 2013, MAB101 will not be available to students undertaking this course. Students who have not completed MAB101 prior to 2013, must undertake another unit from the Level 2 and Level 3 Mathematics unit options.	

Course Notes	
Code	Title
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:	

Level 1 Units:	
Code	Title
Students must complete the following Level 1 Mathematics units:	
MAB101	Statistical Data Analysis 1
If MAB101 is not completed prior to 2013, please select another unit from the Level 2 and 3 Mathematics unit options.	
MAB120	Foundations of Calculus and Algebra
MAB121	Single Variable Calculus and Differential Equations
MAB122	Linear Algebra and Multivariable Calculus
MAB210	Probability and Stochastic 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:	
Code	Title
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	

Bachelor of Applied Science/Bachelor of Mathematics

twelve credit point units) from Level 3 Mathematics units:

Students who have not completed MAB101 prior to 2013, must select an additional unit from the Level 2 and 3 Mathematics unit options.

Students must complete:

MAB311	Advanced Calculus
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MAB312	Linear Algebra
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Level 2 and 3 Science Units:

Code	Title
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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.

Science Elective Units:

Code	Title
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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.

Handbook

Year	2015
QUT code	SE20
CRICOS	078353G
Duration (full-time)	4 years
OP	6
Rank	89
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$15,200 per Study Period (48 credit points)
Total credit points	384
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 Graham Johnson (Science Major); Dr Tim Moroney (Mathematics Major); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Marion Bateson (Biological Science); Associate Professor Eric Waclawik (Chemistry); Dr Jessica Trofimovs (Earth Science); Dr Andrew Baker (Environmental Science); Dr Kristy Vernon (Physics); Dr Qianqian Yang (Applied and Computational Mathematics); Dr Kai Becker (Decision Science); and Dr Chris Drovandi (Statistical 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). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or 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.

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

Studying a double degree in applied science and mathematics will provide you with advanced knowledge and skills that are highly sought after by employers. The course is made up of 384 credit points, with each component degree (i.e. Science and Mathematics) comprising 192 credit points each.

From the very first semester, in both your science and your mathematics studies, you will have the opportunity to collaborate with your peers and teaching staff in QUT's exciting new learning environments. You will explore real world problems from multiple scientific, mathematical and statistical perspectives and learn the tools of the trade. Depending on your choices you may find yourself out in the field, working in the laboratory or learning about the impact of scientific discovery on people, policy, industry and the planet. Working with data that you have collected, you will apply fundamental methods of scientific practice, perform scientific analysis, and present your findings. You will learn about a range of career and professional outcomes so that you can get the most from the flexibility the Bachelor of Science has to offer. Your mathematics studies will strengthen your quantitative analysis skills.

Your choice of science major will provide you with in-depth knowledge and expertise in a scientific discipline. Your choice of mathematics units/major will allow you to develop more advanced quantitative skills and problem solving capabilities that can be applied to larger and more complex real world problems. Both of which will prepare you for entry into the workforce or further study. You can even work with industry or get credit to study overseas.

Aim

This double degree aims to provide graduates with opportunities to develop their skills and knowledge in mathematics and science. You will develop the ability

to apply mathematics, statistics, computational methods and decision science to real world problems. The Bachelor of Science aims to deliver:

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	
	Science Core Unit
	Science Core Unit
	Maths Core Unit
	Maths Core Options Unit
Year 1, Semester 2	
	Science Core Options Unit
	Science Core Options Unit
	Maths Common Major Unit
	Maths Common Major Unit
Year 2, Semester 1	
	Science Core Unit
	Science Core Unit
	Maths Core Unit
	Maths Core Unit
Year 2, Semester 2	
	Science Major Unit
	Science Major Unit
	Maths Core Unit
	Maths Core Options Unit
Year 3, Semester 1	
	Science Major Unit
	Science Major Unit
	Maths Common Major Unit
	Maths Major Unit
Year 3, Semester 2	
	Science Major Unit
	Science Major Unit
	Maths Common Major Unit
	Maths Major Unit
Year 4, Semester 1	
	Science Major Unit
	Science Major Unit
	Maths Major Unit
	Maths Major Unit
Year 4, Semester 2	
	Science Major Unit
	Science Major Unit (capstone)
	Maths Major Unit
	Maths Major Unit (capstone)

Handbook

Year	2015
QUT code	SE30
CRICOS	059226F
Duration (full-time)	4 years
OP	6
Rank	89
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,500 per Study Period (48 credit points)
Total credit points	384
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	Mr Mike Roggenkamp (Information Technology), Dr Tim Moroney (Mathematics); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Professor Colin Fidge (Computer Science); Dr Taizan Chan (Information Systems); Dr Qianqian Yang (Applied & Computational Mathematics); Dr Kai Becker (Decision Science); and Dr Chris Drovandi (Statistical 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 (4, SA) sound achievement.

International Subject prerequisites

- Maths B

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 Overview

Mathematics and information technology are interrelated disciplines. This double degree provides you with the knowledge and skills to develop solutions for complex problems that provide great benefits to society. In the first year you will build a foundation in mathematics and information technology and then select integrated strands combining units from the areas of applied mathematics, computational mathematics, operations research, statistics or financial mathematics with the combined information technology major from either Information Systems of Computer Science.

Career Outcomes

Mathematics underpins much of information technology, especially in the more advanced areas of development and analysis. As a graduate you may find employment as a technical support specialist, data visualisation specialist, operations research specialist, computational scientist, statistician (there is high demand in the insurance industry), or work in complex system and scientific modelling.

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.

Domestic Course structure

The Mathematics Component consists of :

- Six (6) Core units (72 credit points - 48cp + 24cp Core options)

- Ten (10) Major Core units (120 credit points)

The Bachelor of Information Technology component consists of:

- Six (6) Core units (72 credit points - 48cp + 24cp Core options)

- Ten (10) Major Core units (120 credit points)

International Course structure

The Mathematics Component consists of :

- Six (6) Core units (72 credit points - 48cp + 24cp Core options)

- Ten (10) Major Core units (120 credit points)

The Bachelor of Information Technology component consists of:

- Six (6) Core units (72 credit points - 48cp + 24cp Core options)

- Ten (10) Major Core units (120 credit points)

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	
IT Core Unit	
IT Core Unit	
Maths Core Unit	
Maths Core Option Unit	
Year 1, Semester 2	
IT Core Unit	
IT Core Unit	
Maths Common Major Unit	
Maths Common Major Unit	
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Maths Core Unit	
Maths Core Unit	
Year 2, Semester 2	
IT Major Unit	
IT Major Unit	
Maths Core Unit	
Maths Core Option Unit	
Year 3, Semester 1	
IT Major Unit	
IT Major Unit	
Maths Common Major Unit	
Maths Major Unit	
Year 3, Semester 2	
IT Major Unit	
IT Major Unit	
Maths Common Major Unit	

Bachelor of Information Technology/Bachelor of Mathematics

Maths Major Unit
Year 4, Semester 1
IT Major Unit
IT Major Unit
Maths Major Unit
Maths Major Unit
Year 4, Semester 2
IT Major Unit
IT Capstone Unit
Maths Major Unit
Maths Capstone Unit

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
CAB201	Programming Principles
CAB202	Microprocessors and Digital Systems
Year 3, Semester 1	
CAB203	Discrete Structures
CAB302	Software Development
Year 3, Semester 2	
CAB303	Networks
IFB299	Application Design and Development
Year 4, Semester 1	
CAB301	Algorithms and Complexity
CAB398	Capstone Project (Phase 1)
Year 4, Semester 2	
CAB399	Capstone Project (Phase 2)
Select one of:	
CAB401	High Performance and Parallel Computing
CAB402	Programming Paradigms
CAB403	Systems Programming

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
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Year 1, Semester 1	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
IAB201	Modelling Information Systems
IAB202	Business of Information Technology
Year 3, Semester 1	
IAB203	Business Process Modelling
IAB204	Business Analysis
Year 3, Semester 2	
IAB205	Corporate Systems
IFB299	Application Design and Development
Year 4, Semester 1	
IAB398	Capstone Project Part 1 - Design
Select one of:	
IAB302	Information Systems Consulting
IAB303	Business Intelligence
IAB304	Project Management
Year 4, Semester 2	
IAB399	Capstone Project
IAB301	Enterprise Architecture

Handbook

Year	2015
QUT code	SE40
CRICOS	084922G
Duration (full-time)	5 years
OP	6
Rank	89
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,000 per Study Period (48 credit points)
Total credit points	384
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 R.Mahalinga-Iyer (Engineering major); Dr Tim Moroney (Mathematics major); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Professor Manicka Dhanasekar (Civil); Dr Wayne Kelly (Computer & Software Systems); Dr Jacob Coetzee (Electrical); Dr Felipe Gonzalez (Electrical & Aerospace); Professor Ted Steinberg (Mechanical); Dr Jason Ford (Mechatronics); Dr Devakar Epari (Medical); Associate Professor Robert Speight (Process); Dr Qianqian Yang (Applied and Computational Mathematics); Dr Kai Becker (Decision Science); and Dr Chris Drovandi (Statistical 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). Recommended Study: Chemistry, Mathematics C, 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, Mathematics C, 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	6.5

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours) in SE40, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours) in SE40, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB123	Civil Engineering Systems
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB270	Civil Engineering Materials
EGB273	Principles of Construction
EGB275	Structural Mechanics
Year 3 - Semester 2	
EGB272	Traffic and Transport Engineering
EGB376	Steel Design
Year 4 - Semester 1	
EGB371	Engineering Hydraulics
EGB375	Design of Concrete Structures
Year 4 - Semester 2	
EGB373	Geotechnical Engineering
EGH472	Advanced Highway and Pavement Engineering
EGH471	Advanced Water Engineering
Year 5 - Semester 1	
EGH400-1	Research Project 1
SEB400	Foundations of Research
EGH473	Advanced Geotechnical Engineering
Year 5 - Semester 2	
EGH475	Advanced Concrete Structures
EGH479	Advances in Civil Engineering Practice
EGH400-2	Research Project 2

Semesters

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Bachelor of Engineering (Honours)/Bachelor of Mathematics

- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
LSB131	Anatomy
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
Year 4 - Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
Year 4 - Semester 2	
EGB314	Strength of Materials
EGH418	Biomechanics
EGH424	Biofluids
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH414	Stress Analysis
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH438	Biomaterials
EGH435	Modelling and Simulation for Medical Engineers

Semesters

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- [Year 2 - Semester 1](#)
- [Year 2 - Semester 2](#)
- [Year 3 - Semester 1](#)
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- [Year 4 - Semester 1](#)
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- [Year 5 - Semester 1](#)
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Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
LSB131	Anatomy
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
Year 4 - Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
Year 4 - Semester 2	
EGB314	Strength of Materials
EGH418	Biomechanics
EGH424	Biofluids
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH414	Stress Analysis
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH438	Biomaterials
EGH435	Modelling and Simulation for Medical Engineers

Semesters

- [Year 1 - Semester 1](#)
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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics

OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB361	Minerals and Minerals Processing
EGB260	Operations Management and Process Economics
CVB101	General Chemistry
Year 3 - Semester 2	
EGB211	Dynamics
EGB322	Thermodynamics
Year 4 - Semester 1	
EGB323	Fluid Mechanics
EGH461	Unit Operations
Year 4 - Semester 2	
EGB360	Plant and Process Design
EGB363	Safety and Environmental Management
EGH422	Advanced Thermodynamics
Year 5 - Semester 1	
EGH423	Fluids Dynamics
SEB400	Foundations of Research
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH411	Industrial Chemistry
EGH460	Advanced Process Modelling
EGH400-2	Research Project 2

Semesters

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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice

Bachelor of Engineering (Honours)/Bachelor of Mathematics

MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB220	Mechatronics Design 1
EGB242	Signal Analysis
EGB211	Dynamics
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB345	Control and Dynamic Systems
Year 4 - Semester 1	
EGB320	Mechatronics Design 2
EGH446	Autonomous Systems
Year 4 - Semester 2	
EGH445	Modern Control
Intermediate Electrical Option Unit	
Intermediate Mechanical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH419	Mechatronics Design 3
EGH400-1	Research Project 1
Year 5 - Semester 2	
Advanced Mechanical Option Unit	
Advanced Electrical Option Unit	
EGH400-2	Research Project 2

Semesters

- [Year 1 - Semester 1](#)
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- [Year 2 - Semester 1](#)
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- [Year 3 - Semester 1](#)
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- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics

Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB241	Electromagnetics and Machines
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB340	Design and Practice
Advanced Electrical Option Unit	
Year 4 - Semester 2	
Intermediate Electrical Option Unit	
Intermediate Electrical Option Unit	
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
Advanced Electrical Option Unit	
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Electrical Option Unit	
Advanced Electrical Option Unit	

Semesters

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- [Year 3 - Semester 1](#)
- [Year 3 - Semester 2](#)
- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	

EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB243	Aircraft Systems and Flight
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB349	Systems Engineering and Design Project
Advanced Electrical Option Unit	
Year 4 - Semester 2	
EGB345	Control and Dynamic Systems
EGB346	Unmanned Aircraft Systems
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH446	Autonomous Systems
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH445	Modern Control
EGH450	Advanced Unmanned Aircraft Systems

Semesters

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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
CAB201	Programming Principles
Year 3 - Semester 2	

Bachelor of Engineering (Honours)/Bachelor of Mathematics

EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGH456	Embedded Systems
Intermediate Software Option Unit	
Year 4 - Semester 2	
CAB403	Systems Programming
EGH455	Advanced Systems Design
Intermediate Electrical or Software Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
Advanced Electrical Option Unit	
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Software Option Unit	
Advanced Electrical or Software Option Unit	

EGH441	Power System Modelling
EGH442	RF Techniques and Applications
EGH443	Advanced Telecommunications
EGH444	Digital Signals and Image Processing
EGH445	Modern Control
EGH446	Autonomous Systems
EGH448	Power Electronics
EGH449	Advanced Electronics

Foundation/Maths Alternative Unit Option List

Code	Title
MZB125	Introductory Engineering Mathematics
(Only for students who haven't completed Maths C)	
BVB101	Foundations of Biology
CVB101	General Chemistry
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
EGB131	Natural Hazard Engineering
ERB102	Evolving Earth
ERB204	Deforming Earth
EVB102	Ecosystems and the Environment
EVB203	Geospatial Information Science
IFB104	Building IT Systems
MXB105	Calculus of One and Two Variables
MXB106	Linear Algebra and Differential Equations
MXB107	Statistical Models for Data: Relationships and Effects
MXB161	Computational Explorations
OUB110	Am I black enough? Indigenous Australian Representations
OUB130	Indigenous Knowledge: Research Ethics and Protocols
PVB102	Physics of the Very Small

Select 36cp from the Intermediate Electrical Unit Options below:

Code	Title
EGB341	Energy Supply and Delivery
EGB342	Telecommunications and Signal Processing
EGB345	Control and Dynamic Systems
EGB348	Electronics

Select 60cp from the Advanced Electrical Unit Options below:

Code	Title
EGH440	Power Systems Analysis

Handbook

Year	2015
QUT code	SE50
CRICOS	080489G
Duration (full-time)	4 years
Duration (part-time domestic)	8 years
OP	12
Rank	74
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,600 per Study Period (48 credit points)
Total credit points	384
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	Information Technology Coordinator Mr Mike Roggenkamp; Science Coordinator Dr Graham Johnson; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Marion Bateson (Biological Science); Associate Professor Eric Waclawik (Chemistry); Dr Jessica Trofimovs (Earth Science); Dr Andrew Baker (Environmental Science); Dr Kristy Vernon (Physics); Professor Colin Fidge (Computer Science); and Taizan Chan (Information Systems).

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).

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.

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 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 science.

The science component of the course offers you the choice of majoring in Biological Sciences, Physics, Chemistry, Environmental Science or Earth Sciences. Theoretical aspects are balanced by strong practical components in this science and information technology double degree.

The Information Technology component of this degree offers a choice of majors in Information Systems or Computer Science.

Professional Recognition

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

Career Outcomes

Graduates may find roles where they can use their information technology skills within the science discipline. Areas include sensor networks, complex system and scientific modelling, and science. As a graduate, you can expect to work in roles such as a scientific modeller, engineering software developer, scientific programmer, and computational scientist.

Domestic Course structure Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor of Science program and 192 credit points from the Bachelor of Information Technology program.

Science component:

- 6 Science Core units (72 credit points), includes 2 units (24 credit points) of Option Units selected from an approved list.
- 10 Major Core units (120 credit points)

Information Technology component:

- 6 Information Technology Core units (72 credit points), includes 2 units (24 credit points) of Option Units** selected from an approved list.
- 10 Major Core units (120 credit points)

**Options List - comprises a range of units from which you choose to undertake two (2). You are able to undertake these options in any semester. The options include introductory units from a wide variety of disciplines offered at QUT.

International Course structure Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor of Science program and 192 credit points from the Bachelor of Information Technology program.

Science component:

- 6 Science Core units (72 credit points), includes 2 units (24 credit points) of Option Units selected from an approved list.
- 10 Major Core units (120 credit points)

Information Technology component:

- 6 Information Technology Core units (72 credit points), includes 2 units (24 credit points) of Option Units** selected from an approved list.
- 10 Major Core units (120 credit points)

**Options List - comprises a range of units from which you choose to undertake two (2). You are able to undertake these options in any semester. The options include introductory units from a wide variety of disciplines offered at QUT.

Sample Structure Semesters

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- [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	
	Science Core Unit
	Science Core Unit
	Science Core Unit
	Science Core Unit
Year 1, Semester 2	
	IT Core Unit
	IT Core Unit
	IT Core Unit
	IT Core Unit
Year 2, Semester 1	
	Science Core Unit Option
	Science Core Unit Option
	IT Core Unit Option

Bachelor of Science/Bachelor of Information Technology

IT Core Unit Option
Year 2, Semester 2
Science Major Unit
Science Major Unit
IT Major Unit
IT Major Unit
Year 3, Semester 1
Science Major Unit
Science Major Unit
IT Major Unit
IT Major Unit
Year 3, Semester 2
Science Major Unit
Science Major Unit
IT Major Unit
IT Major Unit
Year 4, Semester 1
Science Major Unit
Science Major Unit
IT Major Unit
IT Major Unit
Year 4, Semester 2
Science Major Unit
Science Major Unit
IT Major Unit
IT Major Unit

Handbook

Year	2015
QUT code	SE60
CRICOS	084923F
Duration (full-time)	5 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,000 per Study Period (48 credit points)
Total credit points	480
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 R.Mahalinga-Iyer (Engineering); Mr Mike Roggenkamp (Information Technology); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Professor Manicka Dhanasekar (Civil); Dr Wayne Kelly (Computer & Software Systems); Dr Jacob Coetzee (Electrical); Dr Felipe Gonzalez (Electrical & Aerospace); Professor Ted Steinberg (Mechanical); Dr Jason Ford (Mechatronics); Dr Devakar Epari (Medical); Associate Professor Robert Speight (Process); Professor Colin Fidge (Computer Science); and Taizan Chan (Information Systems).

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	6.5

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours) in SE60, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours) in SE60, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
IAB201	Modelling Information Systems
IAB202	Business of Information Technology
Year 3, Semester 1	
IAB203	Business Process Modelling
IAB204	Business Analysis
Year 3, Semester 2	
IAB205	Corporate Systems
IFB299	Application Design and Development
Year 4, Semester 1	
IAB398	Capstone Project Part 1 - Design
Select one of:	
IAB302	Information Systems Consulting
IAB303	Business Intelligence
IAB304	Project Management
Year 4, Semester 2	
IAB399	Capstone Project
IAB301	Enterprise Architecture

Semesters

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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	

Bachelor of Engineering (Honours)/Bachelor of Information Technology

EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB123	Civil Engineering Systems
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB270	Civil Engineering Materials
EGB273	Principles of Construction
EGB275	Structural Mechanics
Year 3 - Semester 2	
EGB272	Traffic and Transport Engineering
EGB376	Steel Design
Year 4 - Semester 1	
EGB371	Engineering Hydraulics
EGB375	Design of Concrete Structures
Year 4 - Semester 2	
EGB373	Geotechnical Engineering
EGH472	Advanced Highway and Pavement Engineering
EGH471	Advanced Water Engineering
Year 5 - Semester 1	
EGH400-1	Research Project 1
SEB400	Foundations of Research
EGH473	Advanced Geotechnical Engineering
Year 5 - Semester 2	
EGH475	Advanced Concrete Structures
EGH479	Advances in Civil Engineering Practice
EGH400-2	Research Project 2

Semesters

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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics

Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
EGB314	Strength of Materials
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB321	Dynamics of Machines
Year 4 - Semester 1	
EGB323	Fluid Mechanics
EGB316	Design of Machine Elements
Year 4 - Semester 2	
EGB322	Thermodynamics
EGH414	Stress Analysis
EGH421	Vibration and Control
Year 5 - Semester 1	
EGH423	Fluids Dynamics
SEB400	Foundations of Research
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH422	Advanced Thermodynamics
EGH420	Mechanical Systems Design
EGH400-2	Research Project 2

Semesters

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- [Year 3 - Semester 1](#)
- [Year 3 - Semester 2](#)
- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	

Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
LSB131	Anatomy
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
Year 4 - Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
Year 4 - Semester 2	
EGB314	Strength of Materials
EGH418	Biomechanics
EGH424	Biofluids
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH414	Stress Analysis
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH438	Biomaterials
EGH435	Modelling and Simulation for Medical Engineers

Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Year 2 - Semester 1](#)
- [Year 2 - Semester 2](#)
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- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB361	Minerals and Minerals Processing
EGB260	Operations Management and Process Economics

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CVB101	General Chemistry
Year 3 - Semester 2	
EGB211	Dynamics
EGB322	Thermodynamics
Year 4 - Semester 1	
EGB323	Fluid Mechanics
EGH461	Unit Operations
Year 4 - Semester 2	
EGB360	Plant and Process Design
EGB363	Safety and Environmental Management
EGH422	Advanced Thermodynamics
Year 5 - Semester 1	
EGH423	Fluids Dynamics
SEB400	Foundations of Research
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH411	Industrial Chemistry
EGH460	Advanced Process Modelling
EGH400-2	Research Project 2

Semesters

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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB220	Mechatronics Design 1
EGB242	Signal Analysis
EGB211	Dynamics
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB345	Control and Dynamic Systems

Year 4 - Semester 1	
EGB320	Mechatronics Design 2
EGH446	Autonomous Systems
Year 4 - Semester 2	
EGH445	Modern Control
Intermediate Electrical Option Unit	
Intermediate Mechanical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH419	Mechatronics Design 3
EGH400-1	Research Project 1
Year 5 - Semester 2	
Advanced Mechanical Option Unit	
Advanced Electrical Option Unit	
EGH400-2	Research Project 2

Semesters

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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB241	Electromagnetics and Machines
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB340	Design and Practice
Advanced Electrical Option Unit	
Year 4 - Semester 2	
Intermediate Electrical Option Unit	
Intermediate Electrical Option Unit	

Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
Advanced Electrical Option Unit	
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Electrical Option Unit	
Advanced Electrical Option Unit	

Semesters

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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB243	Aircraft Systems and Flight
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB349	Systems Engineering and Design Project
Advanced Electrical Option Unit	
Year 4 - Semester 2	
EGB345	Control and Dynamic Systems
EGB346	Unmanned Aircraft Systems
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH446	Autonomous Systems
EGH400-1	Research Project 1

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Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH445	Modern Control
EGH450	Advanced Unmanned Aircraft Systems

Semesters

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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
CAB201	Programming Principles
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGH456	Embedded Systems
Intermediate Software Option Unit	
Year 4 - Semester 2	
CAB403	Systems Programming
EGH455	Advanced Systems Design
Intermediate Electrical or Software Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
Advanced Electrical Option Unit	
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Software Option Unit	
Advanced Electrical or Software Option Unit	

Foundation/Maths Alternative Unit Option List

Code	Title
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MZB125	Introductory Engineering Mathematics
(Only for students who haven't completed Maths C)	
BVB101	Foundations of Biology
CVB101	General Chemistry
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
EGB131	Natural Hazard Engineering
ERB102	Evolving Earth
ERB204	Deforming Earth
EVB102	Ecosystems and the Environment
EVB203	Geospatial Information Science
IFB104	Building IT Systems
MXB105	Calculus of One and Two Variables
MXB106	Linear Algebra and Differential Equations
MXB107	Statistical Models for Data: Relationships and Effects
MXB161	Computational Explorations
OUB110	Am I black enough? Indigenous Australian Representations
OUB130	Indigenous Knowledge: Research Ethics and Protocols
PVB102	Physics of the Very Small

Select 36cp from the Intermediate Electrical Unit Options below:

Code	Title
EGB341	Energy Supply and Delivery
EGB342	Telecommunications and Signal Processing
EGB345	Control and Dynamic Systems
EGB348	Electronics

Select 60cp from the Advanced Electrical Unit Options below:

Code	Title
EGH440	Power Systems Analysis
EGH441	Power System Modelling
EGH442	RF Techniques and Applications
EGH443	Advanced Telecommunications
EGH444	Digital Signals and Image Processing
EGH445	Modern Control
EGH446	Autonomous Systems
EGH448	Power Electronics
EGH449	Advanced Electronics

Handbook

Year	2015
QUT code	SE80
CRICOS	084924E
Duration (full-time)	5 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per study period (48 credit points)
Total credit points	480
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 R.Mahalinga-Iyer (Engineering); Dr Graham Johnson (Science); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Professor Manicka Dhanasekar (Civil); Dr Wayne Kelly (Computer & Software Systems); Dr Jacob Coetzee (Electrical); Dr Felipe Gonzalez (Electrical & Aerospace); Professor Ted Steinberg (Mechanical); Dr Jason Ford (Mechatronics); Dr Devakar Epari (Medical); and Associate Professor Robert Speight (Process); Dr Marion Bateson (Biological Science); Associate Professor Eric Waclawik; Dr Jessica Trofimovs (Earth Science); Dr Andrew Baker (Environmental Science); and Dr Kristy Vernon (Physics).

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	6.5

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours) in SE80, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours) in SE80, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB123	Civil Engineering Systems
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB270	Civil Engineering Materials
EGB273	Principles of Construction
EGB275	Structural Mechanics
Year 3 - Semester 2	
EGB272	Traffic and Transport Engineering
EGB376	Steel Design
Year 4 - Semester 1	
EGB371	Engineering Hydraulics
EGB375	Design of Concrete Structures
Year 4 - Semester 2	
EGB373	Geotechnical Engineering
EGH472	Advanced Highway and Pavement Engineering
EGH471	Advanced Water Engineering
Year 5 - Semester 1	
EGH400-1	Research Project 1
SEB400	Foundations of Research
EGH473	Advanced Geotechnical Engineering
Year 5 - Semester 2	
EGH475	Advanced Concrete Structures
EGH479	Advances in Civil Engineering Practice
EGH400-2	Research Project 2

Semesters

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- [Year 2 - Semester 2](#)
- [Year 3 - Semester 1](#)
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Bachelor of Engineering (Honours)/Bachelor of Science

- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
LSB131	Anatomy
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
Year 4 - Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
Year 4 - Semester 2	
EGB314	Strength of Materials
EGH418	Biomechanics
EGH424	Biofluids
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH414	Stress Analysis
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH438	Biomaterials
EGH435	Modelling and Simulation for Medical Engineers

Semesters

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- [Year 3 - Semester 2](#)
- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
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Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
LSB131	Anatomy
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
Year 4 - Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
Year 4 - Semester 2	
EGB314	Strength of Materials
EGH418	Biomechanics
EGH424	Biofluids
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH414	Stress Analysis
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH438	Biomaterials
EGH435	Modelling and Simulation for Medical Engineers

Semesters

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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics

OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB361	Minerals and Minerals Processing
EGB260	Operations Management and Process Economics
CVB101	General Chemistry
Year 3 - Semester 2	
EGB211	Dynamics
EGB322	Thermodynamics
Year 4 - Semester 1	
EGB323	Fluid Mechanics
EGH461	Unit Operations
Year 4 - Semester 2	
EGB360	Plant and Process Design
EGB363	Safety and Environmental Management
EGH422	Advanced Thermodynamics
Year 5 - Semester 1	
EGH423	Fluids Dynamics
SEB400	Foundations of Research
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH411	Industrial Chemistry
EGH460	Advanced Process Modelling
EGH400-2	Research Project 2

Semesters

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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice

Bachelor of Engineering (Honours)/Bachelor of Science

MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB220	Mechatronics Design 1
EGB242	Signal Analysis
EGB211	Dynamics
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB345	Control and Dynamic Systems
Year 4 - Semester 1	
EGB320	Mechatronics Design 2
EGH446	Autonomous Systems
Year 4 - Semester 2	
EGH445	Modern Control
Intermediate Electrical Option Unit	
Intermediate Mechanical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH419	Mechatronics Design 3
EGH400-1	Research Project 1
Year 5 - Semester 2	
Advanced Mechanical Option Unit	
Advanced Electrical Option Unit	
EGH400-2	Research Project 2

Semesters

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- [Year 3 - Semester 1](#)
- [Year 3 - Semester 2](#)
- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics

Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB241	Electromagnetics and Machines
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB340	Design and Practice
Advanced Electrical Option Unit	
Year 4 - Semester 2	
Intermediate Electrical Option Unit	
Intermediate Electrical Option Unit	
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
Advanced Electrical Option Unit	
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Electrical Option Unit	
Advanced Electrical Option Unit	

Semesters

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- [Year 3 - Semester 2](#)
- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	

EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB243	Aircraft Systems and Flight
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB349	Systems Engineering and Design Project
Advanced Electrical Option Unit	
Year 4 - Semester 2	
EGB345	Control and Dynamic Systems
EGB346	Unmanned Aircraft Systems
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH446	Autonomous Systems
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH445	Modern Control
EGH450	Advanced Unmanned Aircraft Systems

Semesters

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- [Year 2 - Semester 1](#)
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- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
CAB201	Programming Principles
Year 3 - Semester 2	

Bachelor of Engineering (Honours)/Bachelor of Science

EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGH456	Embedded Systems
Intermediate Software Option Unit	
Year 4 - Semester 2	
CAB403	Systems Programming
EGH455	Advanced Systems Design
Intermediate Electrical or Software Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
Advanced Electrical Option Unit	
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Software Option Unit	
Advanced Electrical or Software Option Unit	

EGH441	Power System Modelling
EGH442	RF Techniques and Applications
EGH443	Advanced Telecommunications
EGH444	Digital Signals and Image Processing
EGH445	Modern Control
EGH446	Autonomous Systems
EGH448	Power Electronics
EGH449	Advanced Electronics

Foundation/Maths Alternative Unit Option List

Code	Title
MZB125	Introductory Engineering Mathematics
(Only for students who haven't completed Maths C)	
BVB101	Foundations of Biology
CVB101	General Chemistry
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
EGB131	Natural Hazard Engineering
ERB102	Evolving Earth
ERB204	Deforming Earth
EVB102	Ecosystems and the Environment
EVB203	Geospatial Information Science
IFB104	Building IT Systems
MXB105	Calculus of One and Two Variables
MXB106	Linear Algebra and Differential Equations
MXB107	Statistical Models for Data: Relationships and Effects
MXB161	Computational Explorations
OUB110	Am I black enough? Indigenous Australian Representations
OUB130	Indigenous Knowledge: Research Ethics and Protocols
PVB102	Physics of the Very Small

Select 36cp from the Intermediate Electrical Unit Options below:

Code	Title
EGB341	Energy Supply and Delivery
EGB342	Telecommunications and Signal Processing
EGB345	Control and Dynamic Systems
EGB348	Electronics

Select 60cp from the Advanced Electrical Unit Options below:

Code	Title
EGH440	Power Systems Analysis

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +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 (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	6.5

Professional Recognition

Full professional accreditation from Engineers Australia has been given for all primary majors in this course.

Complementary Studies

You have the opportunity to undertake a second major or two minors. A second major is a set of eight units (96 credit points) in the same discipline. A minor is a set of four units (48 credit points) in the same discipline. 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 (Honours) 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).

Course Design

Your QUT Bachelor of Engineering (Honours) degree consists of 384 credit points (32 units) arranged as follows:

(a) First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)

(b) Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit

points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Available Majors are:

- Civil
- Computer and Software Systems
- Electrical
- Electrical and Aerospace
- Mechatronics
- Mechanical
- Medical, or
- Process

(c) Complementary Studies: 1 x Second Major (8 unit set) or 2 x Minor (4 unit set each) from the options specified for your chosen major. (96 credit points)

Pathways to Further Study

The (EN01) Bachelor of Engineering (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical

Bachelor of Engineering (Honours)

	Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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.Mahalanga-Iyer; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Professor Manicka Dhanasekar

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Civil) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Bachelor of Engineering (Honours) (Civil)

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	

Code	Title
Year 2, Semester 1	
EGB270	Civil Engineering Materials
EGB273	Principles of Construction
EGB275	Structural Mechanics
EGB371	Engineering Hydraulics
Year 2, Semester 2	
EGB272	Traffic and Transport Engineering
EGB373	Geotechnical Engineering
EGB376	Steel Design
EGH471	Advanced Water Engineering
Year 3, Semester 1	
EGB375	Design of Concrete Structures
EGH473	Advanced Geotechnical Engineering
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 2	
EGH472	Advanced Highway and Pavement Engineering
EGH475	Advanced Concrete Structures
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 2	
EGH400-2	Research Project 2
EGH479	Advances in Civil Engineering Practice
2nd Major/Minor unit	
2nd Major/Minor unit	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Wayne Kelly

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Computer and Software Systems) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Bachelor of Engineering (Honours) (Computer and Software Systems)

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

Foundation Unit Option

Code	Title
Year 2, Semester 1	
EGB240	Electronic Design
EGB242	Signal Analysis
CAB202	Microprocessors and Digital Systems
CAB201	Programming Principles
Year 2, Semester 2	
CAB403	Systems Programming
Intermediate Electrical Unit Option	
Intermediate Electrical or Software Unit Option	
2nd Major/Minor unit	
Year 3, Semester 1	
Intermediate Software Unit Option	
Advanced Electrical Unit Option	
EGH456	Embedded Systems
2nd Major/Minor unit	
Year 3, Semester 2	
EGH455	Advanced Systems Design
Advanced Software Unit Option	
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 2	
EGH400-2	Research Project 2
Advanced Electrical or Software Unit Option	
2nd Major/Minor unit	
2nd Major/Minor unit	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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.Mahalanga-Iyer; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Felipe Gonzalez

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Electrical and Aerospace) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Bachelor of Engineering (Honours) (Electrical and Aerospace)

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

	Engineering
OR	
Foundation Unit Option	

Code	Title
Year 2, Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB242	Signal Analysis
EGB243	Aircraft Systems and Flight
Year 2, Semester 2	
EGB345	Control and Dynamic Systems
EGB346	Unmanned Aircraft Systems
Intermediate Electrical Unit Option	
2nd Major/Minor unit	
Year 3, Semester 1	
EGB349	Systems Engineering and Design Project
Advanced Electrical Unit Option	
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 2	
EGH445	Modern Control
EGH450	Advanced Unmanned Aircraft Systems
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH446	Autonomous Systems
2nd Major/Minor unit	
Year 4, Semester 2	
EGH400-2	Research Project 2
Advanced Electrical Unit Option	
2nd Major/Minor unit	
2nd Major/Minor unit	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Jacob Coetzee

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Electrical) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Bachelor of Engineering (Honours) (Electrical)

Semesters

- [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 2, Semester 1	
EGB241	Electromagnetics and Machines
EGB242	Signal Analysis
CAB202	Microprocessors and Digital Systems
EGB240	Electronic Design
Year 2, Semester 2	
Intermediate Electrical Option Unit	
Intermediate Electrical Option Unit	
Intermediate Electrical Option Unit	
2nd Major/Minor unit	
Year 3, Semester 1	
EGB340	Design and Practice
Advanced Electrical Option Unit	
Advanced Electrical Option Unit or 2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 2	
Advanced Electrical Option Unit	
Advanced Electrical Option Unit	
2nd Major/Minor unit or Advanced Electrical Option Unit	
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 2	
EGH400-2	Research Project 2
Advanced Electrical Option Unit	
2nd Major/Minor unit	
2nd Major/Minor unit	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	

Foundation Unit Option	
Select 36cp from the Intermediate Electrical Unit Options below:	
Code	Title
EGB341	Energy Supply and Delivery
EGB342	Telecommunications and Signal Processing
EGB345	Control and Dynamic Systems
EGB348	Electronics

Select 60cp from the Advanced Electrical Unit Options below:	
Code	Title
EGH440	Power Systems Analysis
EGH441	Power System Modelling
EGH442	RF Techniques and Applications
EGH443	Advanced Telecommunications
EGH444	Digital Signals and Image Processing
EGH445	Modern Control
EGH446	Autonomous Systems
EGH448	Power Electronics
EGH449	Advanced Electronics

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Professor Ted Steinberg

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

candidate for the degree of Bachelor of Engineering (Honours)(Mechanical) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)

Bachelor of Engineering (Honours) (Mechanical)

- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

Code	Title
Year 2, Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
EGB314	Strength of Materials
EGB323	Fluid Mechanics
Year 2, Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB321	Dynamics of Machines
EGB322	Thermodynamics
2nd Major/Minor unit option	
Year 3, Semester 1	
EGB316	Design of Machine Elements
EGH423	Fluids Dynamics
2nd Major/Minor unit option	
2nd Major/Minor unit option	
Year 3, Semester 2	
EGH414	Stress Analysis
EGH421	Vibration and Control
EGH422	Advanced Thermodynamics
2nd Major/Minor unit option	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
2nd Major/Minor unit option	
2nd Major/Minor unit option	
Year 4, Semester 2	
EGH400-2	Research Project 2
EGH420	Mechanical Systems Design
2nd Major/Minor unit option	
2nd Major/Minor unit option	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Jason Ford

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Mechatronics) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)

Bachelor of Engineering (Honours) (Mechatronics)

- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

Code	Title
Year 2, Semester 1	
EGB211	Dynamics
EGB242	Signal Analysis
EGB220	Mechatronics Design 1
Intermediate Electrical or Mechanical unit	
Year 2, Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB345	Control and Dynamic Systems
Intermediate Electrical or Mechanical unit	
2nd Major/Minor unit	
Year 3, Semester 1	
EGH446	Autonomous Systems
EGB320	Mechatronics Design 2
Advanced Electrical or Mechanical Unit	
2nd Major/Minor unit	
Year 3, Semester 2	
EGH445	Modern Control
Advanced Electrical or Mechanical Unit	
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 2	
EGH400-2	Research Project 2
EGH419	Mechatronics Design 3
2nd Major/Minor unit	
2nd Major/Minor unit	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Devakar Epari d.epari@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 (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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Medical) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Bachelor of Engineering (Honours) (Medical)

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

Foundation Unit Option

Code	Title
Year 2, Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
EGB314	Strength of Materials
LSB131	Anatomy
Year 2, Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
2nd Major/Minor unit option	
2nd Major/Minor unit option	
Year 3, Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
2nd Major/Minor unit option	
2nd Major/Minor unit option	
Year 3, Semester 2	
EGH424	Biofluids
EGH418	Biomechanics
EGH414	Stress Analysis
2nd Major/Minor unit option	
Year 4, Semester 1	
SEB400	Foundations of Research
To be replaced by EGH404 from Semester 2, 2016	
EGH400-1	Research Project 1
EGH438	Biomaterials
2nd Major/Minor unit option	
Year 4, Semester 2	
EGH400-2	Research Project 2
EGH435	Modelling and Simulation for Medical Engineers
2nd Major/Minor unit option	
2nd Major/Minor unit option	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	

Handbook

Year	2015
QUT code	EN01
CRICOS	084921G
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per Study Period (48 credit points)
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; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Associate Professor Robert Speight

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	6.5

Professional Recognition

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

Complementary Studies

You will have the opportunity to undertake either a 2nd major or two minors.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Honours)(Process) 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).

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Sample Structure Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Engineering Foundation Strand Option List](#)

Code	Title
Year 1 - Semester 1	
EGB100	Engineering Sustainability and Professional Practice
EGB111	Foundation of Engineering Design
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
MZB126	Engineering Computation
OR	
Unit Option List	
Plus 36cp from ONE of the Engineering Foundation Strands	
Engineering Foundation Strand Option List	
Select the All Engineering Foundation Strand unless you have a preferred major.	
All Engineering Foundation Strand (EN01STR-FNALLMJ)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Civil Engineering Foundation Strand (EN01STR-FNCIVIL)	
EGB121	Engineering Mechanics
EGB123	Civil Engineering Systems
Plus Select 12cp from the Foundation Unit Option List	
Electrical and Mechanical Engineering Foundation Strand (EN01STR-FNECMEC)	
EGB120	Foundations of Electrical Engineering
EGB121	Engineering Mechanics
Plus Select 12cp from the Foundation Unit Option List	

Semesters

- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)

Bachelor of Engineering (Honours) (Process)

- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)
- [Year 4, Semester 1](#)
- [Year 4, Semester 2](#)

Code	Title
Year 2, Semester 1	
CVB101	General Chemistry
EGB211	Dynamics
EGB260	Operations Management and Process Economics
EGB323	Fluid Mechanics
Year 2, Semester 2	
EGB360	Plant and Process Design
EGB322	Thermodynamics
EGB363	Safety and Environmental Management
2nd Major/Minor unit	
Year 3, Semester 1	
EGB361	Minerals and Minerals Processing
EGH423	Fluids Dynamics
EGH461	Unit Operations
2nd Major/Minor unit	
Year 3, Semester 2	
EGH411	Industrial Chemistry
EGH422	Advanced Thermodynamics
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 4, Semester 2	
EGH400-2	Research Project 2
EGH460	Advanced Process Modelling
2nd Major/Minor unit	
2nd Major/Minor unit	

Code	Title
Year 1 - Semester 2	
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
EGB100	Engineering Sustainability and Professional Practice
PVB101	Physics of the Very Large
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 2 - Semester 1	
MZB126	Engineering Computation
OR	
Unit Option List	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	

Handbook

Year	2015
QUT code	IN10
CRICOS	017323G
Duration (full-time)	1 year
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,900 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Jinglan Zhang; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor degree in information technology or equivalent with a minimum grade point average of 4.5 (on QUT's 7-point scale), completed within the last 5 years.

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree in information technology or equivalent with a minimum grade point average of 4.5 (on QUT's 7-point scale), completed within the last 5 years.

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

The Bachelor of Information Technology (Honours) allows you to further develop specific areas of expertise in information technology and related discipline areas and is a pathway into research higher degree study. You will develop high level skills in a specific discipline area and acquire research skills appropriate to your discipline. You will apply analytic processes involving abstraction and modelling to solve complex problems and / or develop new opportunities through the use of information technology and will apply a deep understanding of the discipline to accurately assess its impact on individuals, organisations and society. You will receive individual supervision from an experienced researcher to complete a project. This project allows you to demonstrate your advanced academic capability and culminates in the completion of an honours thesis.

Course Design

Requirements for the completion of IN10 Bachelor of Information Technology (Honours) are as follows:

CORE: Foundations of Research unit and Reviewing the Field unit

OPTION: A choice of either the *Expanded Research Strand* or the *Extended Coursework Strand*

Each strand comprises of coursework and a major research project supervised by QUT staff.

Career Outcomes

Information technology is an integral part of all commercial, industrial, government, social and personal activities. Graduates from the honours program have the opportunity to achieve the highest levels of their profession. Career opportunities include 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. Additionally, graduates may evolve into domain experts working as chief technology officers, chief information officers, managers, executives, business analysts and entrepreneurs. Graduates of this degree may go into

academic and research careers.

Professional Recognition

Graduates of the Bachelor of Information Technology (Honours) meet the knowledge requirement for admission to the Australian Computer Society (ACS).

Pathways to Further Study

The QUT Bachelor of Information Technology (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible to apply to the Doctor of Philosophy within the Science and Engineering Faculty.

Domestic Course structure

You'll need to choose between either the expanded research or extended coursework options.

International Course structure

You'll need to choose between either the expanded research or extended coursework options.

Sample Structure Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Information Technology Honours Unit Options \(Expanded Research\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
SEB402	Project Proposal
Select 12cp (1 Unit) from Information Technology Honours Unit Options	
Semester 2	
SEB403	Honours Research Project
Select 12cp (1 Unit) from Information Technology Honours Unit Options	
Information Technology Honours Unit Options (Expanded Research)	
Select 24cp (2 units) from:	
INB282	Games Level Design
INB324	Business Process Analytics
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB343	Data Warehousing and Mining
INB344	Search Engine Technology
INB348	Mobile Application Development
INB356	Cloud Computing
INB372	Agile Software Development
INB374	Enterprise Software Architecture
INB375	Parallel Computing
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques

Bachelor of Information Technology (Honours)

INB383	AI for Games
INB322	Information Systems Consulting
INN326	Advanced Process Modelling
INN327	Business Process Management
INN500	PRINCE2 (R) Project Management
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN610	Case Studies in Business Process Management
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN701	Advanced Research Topics
INN702	Information Systems Research
INN703	Writing IS Research Articles

IFN645	Data Mining Technology and Applications
IFN652	Business Process Management
IFN660	Programming Language Theory
IFN661	Mobile and Pervasive Systems
IFN662	Enterprise Systems and Applications
IFN680	Advanced Topics in Artificial Intelligence
INN702	Information Systems Research

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Information Technology Honours Unit Options \(Extended Coursework\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
Select 24cp (2 Units) from Information Technology Honours Unit Options	
Semester 2	
SEB404	Honours Research Project
Select 12cp (1 Unit) from Information Technology Honours Unit Options	
Information Technology Honours Unit Options (Extended Coursework)	
Select 36cp (3 units) from:	
INB282	Games Level Design
INB343	Data Warehousing and Mining
INB348	Mobile Application Development
INB372	Agile Software Development
INB374	Enterprise Software Architecture
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
INB383	AI for Games
INB322	Information Systems Consulting
INN282	Games Level Design
INN570	Internationalisation of Software
IFN612	Emerging Technologies for Information Practice
IFN641	Advanced Network Management
IFN643	Computer System Security

Handbook

Year	2015
QUT code	IT04
CRICOS	059710E
Duration (full-time)	3 years
OP	1
Rank	99
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	
Start months	February Fixed closing date: The online questionnaire must be submitted by 16 November 2012
Int. Start Months	February Fixed closing date: The online questionnaire must be submitted by 16 November 2012
Course Coordinator	Mr Richard Thomas; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements 2013 questionnaires have closed

Questionnaires for the 2013 intake were due to completed on the 16 November 2012 and are now closed. If you had not submitted the questionnaire and you are considering applying to study in 2014 we recommend you read the following information as a guide only as it details requirements for entry in 2013 and these may change prior to the 2014 intake. You may also wish to consider applying for the standard entry program for 2013 entry.

Prerequisites

1. Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia.
2. Successful questionnaire

Additional entry requirements

In addition to applying through QTAC and you must also submit the [online Science and Engineering Dean's Scholars questionnaire](#) by the closing date.

Please note submitting the questionnaire with QUT is separate and in addition to listing the course as a preference with [QTAC](#). To successfully apply for entry into this course you are required to do both.

Closing date

Submit the [online questionnaire](#) with QUT by Friday, 16 November 2012.

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

Prerequisite

1. Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia.
2. Successful questionnaire

Closing date

Submit the questionnaire with QUT by Friday, 16 November 2012.

Additional Entry Requirements

In addition to applying through [QTAC](#) and you must also submit the online Science and Engineering Dean's Scholars questionnaire (available August) by the closing date.

Please Note: Submitting the questionnaire with QUT is separate and in addition to listing the course as a preference with [QTAC](#). To successfully apply for entry into this course you are required to do both.

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

Please Note

As of 2013, all new Dean's Scholar applicants will be admitted into the standard Bachelor programs, with no accelerated studies and no pre-approved articulation to Honours degrees.

As of 2014, there will not be a separate QTAC entry point for the Science and Engineering Dean's Scholar Programs whilst the scholarship undergoes a further review.

Eligibility Criteria

Applicants must:

- have completed Year 12 in the year they apply for the program, or the previous year
- have received an OP 1 (or equivalent)
- be starting university for the first time
- demonstrate leadership experience and potential
- demonstrate community participation and engagement
- apply for and gain a place in the relevant Dean's Scholars Program

If studying at QUT International College (QUTIC), applicant must have a grade point average (GPA) of at least 6.5 for the two semesters immediately before they apply for the Dean's Scholars Program.

If expecting to get an OP of 1-3, applicant should apply for consideration.

Conditions as of 2013.

To keep a place in the Dean's Scholars program, students must:

- maintain enrolment full-time in the eligible undergraduate course
- graduate from the Bachelor of Games and Interactive Entertainment within 3 years of starting, except where you've taken a leave of absence approved by the Assistant Dean, or there are other extenuating circumstances
- maintain a grade point average (GPA) of at least 6.0 each semester
- meet the requirements of program completion (for example work experience and work integrated learning)
- pay any costs associated with their program that aren't covered by the scholarship, including additional and repeated units
- demonstrate adequate participation in extracurricular elements of the program.

Students can:

Bachelor of Games and Interactive Entertainment - Dean's Scholars Program

• apply to change their course structure under exceptional circumstances. Students must apply through their academic mentor or course coordinator, and receive prior written approval from the Assistance Dean International and Engagement.

• apply [for other scholarships and bursaries](#), including ones associated with travel, as long as they are allowed to under the conditions of the other scholarship and under our [Industry sponsored student scholarships policy](#).

Financial Support as of 2013.

Successful applicants will receive:

• A scholarship of up to \$6,000 per annum, usually payable in 2 instalments of \$3,000 by the 2nd week of semester 1 and semester 2 of each year. The scholarship would apply for the full-time duration of the undergraduate degree, contingent upon students meeting the conditions of the program (refer to Conditions below). The total value of the scholarship is limited to \$18,000 for the 3 year programs and \$24,000 for the 4 year programs.

Financial Support prior to 2013

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.

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.

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

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](#).

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.

^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.

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.

^Only available to those undertaking the software technologies major.

Sample Structure

Code	Title
Course Notes	
Refer to IT04 course structure.	

Handbook

Year	2015
QUT code	IT06
CRICOS	059712C
Duration (full-time)	3 years
OP	1
Rank	99
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
Total credit points	
Start months	February Fixed closing date - 16 November 2012.
Int. Start Months	February Fixed closing date - 30 November
Course Coordinator	Mr Richard Thomas; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements 2013 questionnaires have closed

Questionnaires for the 2013 intake were due to completed on the 16 November 2012 and are now closed. If you had not submitted the questionnaire and you are considering applying to study in 2014 we recommend you read the following information as a guide only as it details requirements for entry in 2013 and these may change prior to the 2014 intake. You may also wish to consider applying for the standard entry program for 2013 entry.

Prerequisites

1. Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia.
2. Successful questionnaire

Additional entry requirements

In addition to applying through QTAC and you must also submit the [online Science and Engineering Dean's Scholars questionnaire](#) by the closing date.

Please note submitting the questionnaire with QUT is separate and in addition to listing the course as a preference with [QTAC](#). To successfully apply for entry into this course you are required to do both.

Closing date

Submit the [online questionnaire](#) with QUT by Friday, 16 November 2012.

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

Prerequisite

1. Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia.
2. Successful questionnaire

Closing date

Submit the questionnaire with QUT by Friday, 16 November 2012.

Additional entry requirements

In addition to applying through [QTAC](#) and you must also submit the online Science and Engineering Dean's Scholars questionnaire (available October) by the closing date.

Please note: Submitting the questionnaire with QUT is separate and in addition to listing the course as a preference with [QTAC](#). To successfully apply for entry into this course you are required to do both.

Applicants will be notified via email when the questionnaire is available.

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

Please Note

As of 2013, all new Dean's Scholar applicants will be admitted into the standard Bachelor programs, with no accelerated studies and no pre-approved articulation to Honours degrees.

As of 2014, there will not be a separate QTAC entry point for the Science and Engineering Dean's Scholar Programs whilst the scholarship undergoes a further review.

Eligibility Criteria

Applicants must:

- have completed Year 12 in the year they apply for the program, or the previous year
- have received an OP 1 (or equivalent)
- be starting university for the first time
- demonstrate leadership experience and potential
- demonstrate community participation and engagement
- apply for and gain a place in the relevant Dean's Scholars Program

If studying at QUT International College (QUTIC), applicant must have a grade point average (GPA) of at least 6.5 for the two semesters immediately before they apply for the Dean's Scholars Program.

If expecting to get an OP of 1-3, applicant should apply for consideration.

Financial Support as of 2013.

Successful applicants will receive:

- A scholarship of up to \$6,000 per annum, usually payable in 2 instalments of \$3,000 by the 2nd week of semester 1 and semester 2 of each year. The scholarship would apply for the full-time duration of the undergraduate degree, contingent upon students meeting the conditions of the program (refer to Conditions below). The total value of the scholarship is limited to \$18,000 for the 3 year programs and \$24,000 for the 4 year programs.

Conditions as of 2013.

To keep a place in the Dean's Scholars program, students must:

- maintain enrolment full-time in the eligible undergraduate course
- graduate from the Bachelor of Corporate Systems Management within 3 years of starting, except where you've taken a leave of absence approved by the Assistant Dean, or there are other extenuating

circumstances

- maintain a grade point average (GPA) of at least 6.0 each semester
- meet the requirements of program completion (for example work experience and work integrated learning)
- pay any costs associated with their program that aren't covered by the scholarship, including additional and repeated units
- demonstrate adequate participation in extracurricular elements of the program.

Students can:

- apply to change their course structure under exceptional circumstances. Students must apply through their academic mentor or course coordinator, and receive prior written approval from the Assistance Dean International and Engagement.
- apply [for other scholarships and bursaries](#), including ones associated with travel, as long as they are allowed to under the conditions of the other scholarship and under our [Industry sponsored student scholarships policy](#).

Financial Support prior to 2013

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.

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 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.

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.

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.

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
- INB220 Business Analysis
- INB255 Security
- INB272 Interaction Design

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

Domestic 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.

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.

Bachelor of Corporate Systems Management - Dean's Scholars Program

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

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.

Sample Structure

Refer to the [IT06 course structure](#).

Code	Title
Course Notes	

Handbook

Year	2015
QUT code	IT28
CRICOS	017323G
Duration (full-time)	1 year
Duration (part-time domestic)	2 years
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,700 per Study Period (48 credit points)
Total credit points	96
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Jinglan Zhang; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic 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

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

Course Update

This course will be offered in 2014, however the course structure is being redeveloped and is subject to university approval.

For course updates please visit www.qut.edu.au/coursechanges

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.

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.

Bachelor of Information Technology (Honours)

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 at 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.

Domestic Course structure

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.

International Course structure

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.

Sample Structure Semesters

- [FULL TIME](#)
- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [PART TIME](#)
- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)

Code	Title
FULL TIME	
Year 1, Semester 1	
INN700	Introduction To Research
INN401	Honours Dissertation 1
Elective	
INN701	Advanced Research Topics
Year 1, Semester 2	
INN402	Honours Dissertation 2
INN403	Honours Dissertation 3
INN404	Honours Dissertation 4
Elective	
PART TIME	
Year 1, Semester 1	
INN700	Introduction To Research
INN401	Honours Dissertation 1
Year 1, Semester 2	
INN402	Honours Dissertation 2
Elective	
Year 2, Semester 1	
INN403	Honours Dissertation 3
Elective	
Year 2, Semester 2	
INN404	Honours Dissertation 4
Elective	
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.	

Handbook

Year	2015
QUT code	IX59
CRICOS	084925D
Duration (full-time)	5 years
OP	8
Rank	84
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,900 per Study Period (48 credit points)
Total credit points	480
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	Director of Studies, QUT Business School; email: bus@qut.edu.au; or, Dr R.Mahalinga-Iyer (Engineering); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au; or,
Discipline 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 (4, SA). Recommended Study: Chemistry, Maths C, 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, 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	6.5

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours) in IX59, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

To complete the Bachelor of Business students will complete 192 credit points of course units, as outlined below:

- 8 Business School Core units (96 credit points) *
- 8 Major Core units (96 credit points)

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

International Course structure

To graduate with a Bachelor of Engineering (Honours) in IX59, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
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Honours units to consist of:

- Research methods 12cp
- Project 24cp

- 5 x Advanced major units 60cp

To complete the Bachelor of Business students will complete 192 credit points of course units, as outlined below:

- 8 Business School Core units (96 credit points) *
- 8 Major Core units (96 credit points)

*Accounting major students complete 6 Business Core Units and 10 Accountancy major units to allow them to complete professional requirements.

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB123	Civil Engineering Systems
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB270	Civil Engineering Materials
EGB273	Principles of Construction
EGB275	Structural Mechanics
Year 3 - Semester 2	
EGB272	Traffic and Transport Engineering
EGB376	Steel Design
Year 4 - Semester 1	
EGB371	Engineering Hydraulics
EGB375	Design of Concrete Structures
Year 4 - Semester 2	
EGB373	Geotechnical Engineering
EGH472	Advanced Highway and Pavement Engineering
EGH471	Advanced Water Engineering
Year 5 - Semester 1	

Bachelor of Business/Bachelor of Engineering (Honours)

EGH400-1	Research Project 1
SEB400	Foundations of Research
EGH473	Advanced Geotechnical Engineering
Year 5 - Semester 2	
EGH475	Advanced Concrete Structures
EGH479	Advances in Civil Engineering Practice
EGH400-2	Research Project 2

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
EGB314	Strength of Materials
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB321	Dynamics of Machines
Year 4 - Semester 1	
EGB323	Fluid Mechanics
EGB316	Design of Machine Elements
Year 4 - Semester 2	
EGB322	Thermodynamics
EGH414	Stress Analysis
EGH421	Vibration and Control
Year 5 - Semester 1	
EGH423	Fluids Dynamics
SEB400	Foundations of Research
EGH400-1	Research Project 1
Year 5 - Semester 2	

EGH422	Advanced Thermodynamics
EGH420	Mechanical Systems Design
EGH400-2	Research Project 2

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
LSB131	Anatomy
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
Year 4 - Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
Year 4 - Semester 2	
EGB314	Strength of Materials
EGH418	Biomechanics
EGH424	Biofluids
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH414	Stress Analysis
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH438	Biomaterials
EGH435	Modelling and Simulation for Medical Engineers

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB361	Minerals and Minerals Processing
EGB260	Operations Management and Process Economics
CVB101	General Chemistry
Year 3 - Semester 2	
EGB211	Dynamics
EGB322	Thermodynamics
Year 4 - Semester 1	
EGB323	Fluid Mechanics
EGH461	Unit Operations
Year 4 - Semester 2	
EGB360	Plant and Process Design
EGB363	Safety and Environmental Management
EGH422	Advanced Thermodynamics
Year 5 - Semester 1	
EGH423	Fluids Dynamics
SEB400	Foundations of Research
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH411	Industrial Chemistry
EGH460	Advanced Process Modelling
EGH400-2	Research Project 2

Semesters

- [Year 1 - Semester 1](#)
- [Year 1 - Semester 2](#)
- [Year 2 - Semester 1](#)
- [Year 2 - Semester 2](#)
- [Year 3 - Semester 1](#)

Bachelor of Business/Bachelor of Engineering (Honours)

- [Year 3 - Semester 2](#)
- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB220	Mechatronics Design 1
EGB242	Signal Analysis
EGB211	Dynamics
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB345	Control and Dynamic Systems
Year 4 - Semester 1	
EGB320	Mechatronics Design 2
EGH446	Autonomous Systems
Year 4 - Semester 2	
EGH445	Modern Control
Intermediate Electrical Option Unit	
Intermediate Mechanical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH419	Mechatronics Design 3
EGH400-1	Research Project 1
Year 5 - Semester 2	
Advanced Mechanical Option Unit	
Advanced Electrical Option Unit	
EGH400-2	Research Project 2

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering

	Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB241	Electromagnetics and Machines
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB340	Design and Practice
Advanced Electrical Option Unit	
Year 4 - Semester 2	
Intermediate Electrical Option Unit	
Intermediate Electrical Option Unit	
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
Advanced Electrical Option Unit	
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Electrical Option Unit	
Advanced Electrical Option Unit	

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability

	and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB243	Aircraft Systems and Flight
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB349	Systems Engineering and Design Project
Advanced Electrical Option Unit	
Year 4 - Semester 2	
EGB345	Control and Dynamic Systems
EGB346	Unmanned Aircraft Systems
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH446	Autonomous Systems
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH445	Modern Control
EGH450	Advanced Unmanned Aircraft Systems

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	

Bachelor of Business/Bachelor of Engineering (Honours)

Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
CAB201	Programming Principles
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGH456	Embedded Systems
Intermediate Software Option Unit	
Year 4 - Semester 2	
CAB403	Systems Programming
EGH455	Advanced Systems Design
Intermediate Electrical or Software Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
Advanced Electrical Option Unit	
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Software Option Unit	
Advanced Electrical or Software Option Unit	

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](#)

Code	Title
Year 1 Semester 1	
BSB110	Accounting
BSB115	Management
Year 1 Semester 2	
BSB111	Business Law and Ethics
BSB124	Working in Business
Year 2 Semester 1	
AYB200	Financial Accounting
AYB225	Management Accounting
Year 2 Semester 2	
AYB221	Accounting Systems and Technologies
BSB113	Economics
Year 3 Semester 1	
EFB210	Finance 1
Year 3 Semester 2	
AYB321	Strategic Management Accounting

AYB340	Company Accounting
Year 4 Semester 1	
AYB219	Taxation Law
AYB230	Corporations Law
Year 4 Semester 2	
AYB301	Audit and Assurance
Year 5 Semester 1	
AYB311	Financial Accounting Issues
Year 5 Semester 2	
BSB126	Marketing

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](#)

Code	Title
Year 1 Semester 1	
BSB113	Economics
BSB126	Marketing
Year 1 Semester 2	
BSB110	Accounting
BSB115	Management
Year 2 Semester 1	
AMB220	Advertising Theory and Practice
BSB124	Working in Business
Year 2 Semester 2	
AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
Year 3 Semester 1	
BSB111	Business Law and Ethics
Year 3 Semester 2	
AMB318	Advertising Copywriting
AMB319	Media Planning
Year 4 Semester 1	
AMB320	Advertising Management
AMB330	Digital Portfolio
Year 4 Semester 2	
AMB339	Advertising Campaigns
Year 5 Semester 1	
BSB119	Global Business
Year 5 Semester 2	
MGB223	Entrepreneurship and Innovation

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](#)
- [Applied Economics Unit Options](#)
- [Quantitative Economics Unit Options](#)

Code	Title
Year 1 Semester 1	
BSB113	Economics
BSB115	Management
Year 1 Semester 2	
BSB110	Accounting
EFB223	Economics 2
Year 2 Semester 1	
EFB330	Intermediate Macroeconomics
EFB331	Intermediate Microeconomics
Year 2 Semester 2	
BSB111	Business Law and Ethics
Choose an elective from the Applied Economics or Quantitative Economics Unit Option lists	
Year 3 Semester 1	
Choose an elective from the Applied Economics or Quantitative Economics Unit Option lists	
Year 3 Semester 2	
BSB119	Global Business
Choose an elective from the Applied Economics or Quantitative Economics Unit Option lists	
Year 4 Semester 1	
BSB124	Working in Business
Choose an elective from the Applied Economics or Quantitative Economics Unit Option lists	
Year 4 Semester 2	
EFB338	Contemporary Application of Economic Theory
Year 5 Semester 1	
BSB126	Marketing
Year 5 Semester 2	
MGB223	Entrepreneurship and Innovation
Applied Economics Unit Options	
EFB201	Financial Markets
EFB225	Economics for the Real World
EFB226	Environmental Economics and Policy
EFB336	International Economics
Quantitative Economics Unit Options	
EFB222	Quantitative Methods for Economics and Finance
EFB332	Applied Behavioural Economics
EFB333	Introductory Econometrics
EFB337	Game Theory and Applications

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](#)

Code	Title
Year 1 Semester 1	
BSB113	Economics
BSB115	Management
Year 1 Semester 2	
BSB124	Working in Business

Bachelor of Business/Bachelor of Engineering (Honours)

BSB126	Marketing
Year 2 Semester 1	
BSB110	Accounting
MGB223	Entrepreneurship and Innovation
Year 2 Semester 2	
EFB201	Financial Markets
EFB210	Finance 1
Year 3 Semester 1	
BSB111	Business Law and Ethics
Year 3 Semester 2	
EFB343	Corporate Finance
EFB344	Risk Management and Derivatives
Year 4 Semester 1	
EFB223	Economics 2
EFB312	International Finance
Year 4 Semester 2	
BSB119	Global Business
Year 5 Semester 1	
EFB335	Investments
Year 5 Semester 2	
EFB360	Finance Capstone

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](#)

Code	Title
Year 1 Semester 1	
BSB113	Economics
BSB115	Management
Year 1 Semester 2	
BSB111	Business Law and Ethics
BSB124	Working in Business
Year 2 Semester 1	
MGB223	Entrepreneurship and Innovation
MGB200	Leading Organisations
Course Notes	
Human Resource Issues and Strategy	
Accounting	
Year 3 Semester 1	
MGB220	Human Resource Decision Making
Year 3 Semester 2	
MGB201	Contemporary Employment Relations
BSB126	Marketing
Year 4 Semester 1	
BSB119	Global Business
MGB339	Performance and Reward
Year 4 Semester 2	
MGB320	Recruitment and Selection
Year 5 Semester 1	
MGB331	Learning and Development in Organisations

Year 5 Semester 2	
MGB370	Personal and Professional Development

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](#)

Code	Title
Year 1 Semester 1	
BSB119	Global Business
BSB126	Marketing
Year 1 Semester 2	
BSB110	Accounting
BSB115	Management
Year 2 Semester 1	
BSB113	Economics
MGB223	Entrepreneurship and Innovation
Year 2 Semester 2	
AMB210	Importing and Exporting
AYB227	International Accounting
Year 3 Semester 1	
BSB111	Business Law and Ethics
Year 3 Semester 2	
AMB303	International Logistics
MGB225	Intercultural Communication and Negotiation Skills
Year 4 Semester 1	
AMB336	International Marketing
EFB240	Finance for International Business
Year 4 Semester 2	
AMB369	International Business Strategy
Year 5 Semester 1	
BSB124	Working in Business
Year 5 Semester 2	
MGB340	International Business in the Asia-Pacific

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](#)

Code	Title
Year 1 Semester 1	
BSB113	Economics
BSB115	Management
Year 1 Semester 2	
BSB124	Working in Business
BSB126	Marketing
Year 2 Semester 1	
BSB110	Accounting

BSB119	Global Business
Year 2 Semester 2	
BSB111	Business Law and Ethics
MGB200	Leading Organisations
Year 3 Semester 1	
MGB201	Contemporary Employment Relations
Year 3 Semester 2	
MGB210	Managing Operations
MGB223	Entrepreneurship and Innovation
Year 4 Semester 1	
MGB225	Intercultural Communication and Negotiation Skills
MGB309	Strategic Management
Year 4 Semester 2	
MGB310	Sustainability in A Changing Environment
Year 5 Semester 1	
MGB324	Managing Business Growth
Year 5 Semester 2	
MGB335	Project Management

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](#)

Code	Title
Year 1 Semester 1	
BSB113	Economics
BSB126	Marketing
Year 1 Semester 2	
BSB111	Business Law and Ethics
BSB115	Management
Year 2 Semester 1	
BSB124	Working in Business
BSB110	Accounting
Year 2 Semester 2	
AMB201	Marketing and Audience Research
AMB240	Marketing Planning and Management
Year 3 Semester 1	
AMB200	Consumer Behaviour
Year 3 Semester 2	
AMB202	Integrated Marketing Communication
AMB335	E-marketing Strategies
Year 4 Semester 1	
AMB340	Services Marketing
MGB223	Entrepreneurship and Innovation
Year 4 Semester 2	
AMB336	International Marketing
Year 5 Semester 1	
AMB359	Strategic Marketing
Year 5 Semester 2	
BSB119	Global Business

Bachelor of Business/Bachelor of Engineering (Honours)

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](#)

Code	Title
Year 1 Semester 1	
BSB119	Global Business
BSB126	Marketing
Year 1 Semester 2	
BSB110	Accounting
BSB115	Management
Year 2 Semester 1	
AMB201	Marketing and Audience Research
BSB113	Economics
Year 2 Semester 2	
AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques
Year 3 Semester 1	
AMB372	Public Relations Planning
Year 3 Semester 2	
AMB373	Issues, Stakeholders and Reputation
AMB374	Global Public Relations Cases
Year 4 Semester 1	
AMB375	Public Relations Management
MGB223	Entrepreneurship and Innovation
Year 4 Semester 2	
AMB379	Public Relations Campaigns
Year 5 Semester 1	
BSB111	Business Law and Ethics
Year 5 Semester 2	
BSB124	Working in Business

Foundation/Maths Alternative Unit Option List	
Code	Title
MZB125	Introductory Engineering Mathematics
(Only for students who haven't completed Maths C)	
BVB101	Foundations of Biology
CVB101	General Chemistry
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
EGB131	Natural Hazard Engineering
ERB102	Evolving Earth
ERB204	Deforming Earth
EVB102	Ecosystems and the Environment
EVB203	Geospatial Information Science
IFB104	Building IT Systems
MXB105	Calculus of One and Two Variables

MXB106	Linear Algebra and Differential Equations
MXB107	Statistical Models for Data: Relationships and Effects
MXB161	Computational Explorations
OUB110	Am I black enough? Indigenous Australian Representations
OUB130	Indigenous Knowledge: Research Ethics and Protocols
PVB102	Physics of the Very Small

Select 36cp from the Intermediate Electrical Unit Options below:	
Code	Title
EGB341	Energy Supply and Delivery
EGB342	Telecommunications and Signal Processing
EGB345	Control and Dynamic Systems
EGB348	Electronics

Select 60cp from the Advanced Electrical Unit Options below:	
Code	Title
EGH440	Power Systems Analysis
EGH441	Power System Modelling
EGH442	RF Techniques and Applications
EGH443	Advanced Telecommunications
EGH444	Digital Signals and Image Processing
EGH445	Modern Control
EGH446	Autonomous Systems
EGH448	Power Electronics
EGH449	Advanced Electronics

Handbook

Year	2015
QUT code	IX80
CRICOS	083029M
Duration (full-time)	5.5 years
OP	5
Rank	91
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,100 per Study Period (48 credit points)
Total credit points	528
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	Dr Graham Johnson (Science); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au; Jennifer Yule (Law); ph: +61 7 3138 2707; Email: lawandjustice@qut.edu.au
Discipline Coordinator	Jennifer Yule (Law); Dr Marion Bateson (Biological Science); Associate Professor Eric Waclawik (Chemistry); Dr Jessica Trofimovs (Earth Science); Dr Andrew Baker (Environmental Science); and Dr Kristy Vernon (Physics). Science: +61 7 3138 8822; Law: +61 7 3138 2707 Science: sef.enquiry@qut.edu.au; Law: lawandjustice@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 (4, SA). Recommended Study: At least one of Chemistry, Physics, Biology, Earth Science or 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.

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 Structure Information

Students are required to complete 528 credit points, comprised of 192 credit points for the Bachelor of Science program and 336 credit points for the Bachelor of Laws program. You will study science and law units in your first four years and for the remainder of this course you will concentrate on law studies.

Under the Science component students will complete 16 units in total. Students will choose any of the following science majors that are offered in the Bachelor of Science (ST01) course: biology, chemistry, earth science, environmental science and physics.

Under the Law component students will complete 336 credit points of core units and a mixture of Introductory, General and Advanced Electives. Students may select up to 48 credit points of non-law electives or 48 credit points of a University-wide minor in place of four of the General Electives. Successful completion of a minor will be recognised on the Academic Record and / or the Australian Higher Education Graduation Statement.

Total Law credit points: 336
Total credit points for core units: 240
Total credit points for elective units: 96
Honours Level Units

96 credit points of Honours units listed below will be used to determine the Honours Levels of the LLB (Hons):
LLH201 Legal Research,
LLH206 Administrative Law,
LLH302 Ethics and the Legal Profession,
LLH305 Corporate Law,
LLH401 Legal Research Capstone (24 cps) and two Advanced Electives in law.

Professional Recognition

The QUT LLB (Hons) is an approved degree for the purposes of the Legal Practitioners Admission Rules. Accordingly, it enables graduates to satisfy the academic requirements for admission to practise as a solicitor and/or barrister in all Australian states and territories.

Graduates will satisfy the requirements for membership in the relevant professional body for their science major.

Admission to practice

If, at the end of your degree, you wish to become a legal practitioner, you will need to complete further practical legal training (PLT). QUT also offers PLT in the form of the Graduate Diploma in Legal Practice.

Career Outcomes

As a graduate, you may enter legal practice with an education in both the content and process of science and data analysis that will enable you to deal with the complexities of litigation that have a scientific and technological dimension, such as inventions, trade secrets, quantitative evidence, and constitutional disputes giving rise to environmental issues. On the other hand, you may choose to follow a career path in the sciences, enhancing your opportunities in a particular discipline such as environmental science or biotechnology through your knowledge of the law.

You will graduate with specialised knowledge of cutting-edge technologies and extensive practical experience using the latest techniques. You have a broad range of options to choose from and the flexibility to create your own personal science degree program.

In developing the LLB (Hons) the Faculty recognises that graduates are increasingly seeking a broad range of careers including, but not limited to, legal practice. The defining nature of the QUT LLB (Hons) is its real-world applied nature which will equip you with advanced knowledge and research and other skills and that meet the needs of not only the legal profession, but also government, community organisations, business and industry.

The LLB (Hons) provides students with an opportunity to advance their knowledge of law in specialised areas through the elective units offered as part of the course. The elective units allow you to study areas of the law that match your career aspirations. Career opportunities include working in general legal practice, specialist legal practice, government departments and employment in private enterprise.

Non-standard attendance

Field work is a requirement in some areas of science.

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more at [deferment](#)

Domestic Course structure

Students are required to complete 528 credit points, comprised of 192 credit points for the Bachelor of Science program and 336 credit points for the Bachelor of Laws program. You will study science and law units in your first four years and for the remainder of this course you will concentrate on law studies.

Under the Science component students will complete 16 units in total. Students will choose any of the following science majors that are offered in the [Bachelor of Science](#) (ST01) course: biology, chemistry, earth science, environmental science and physics.

Bachelor of Science/Bachelor of Laws (Honours)

Under the Law component students will complete 336 credit points of core units and a mixture of Introductory, General and Advanced Electives. Students may select up to 48 credit points of non-law electives or 48 credit points of a University-wide minor in place of four of the General Electives. Successful completion of a minor will be recognised on the Academic Record and / or the Australian Higher Education Graduation Statement.

Total Law credit points: 336
Total credit points for core units: 240
Total credit points for elective units: 96

Honours Level Units

96 credit points of Honours units listed below will be used to determine the Honours Levels of the LLB (Hons):

LLH201 Legal Research,
LLH206 Administrative Law,
LLH302 Ethics and the Legal Profession,
LLH305 Corporate Law,
LLH401 Legal Research Capstone (24 cps) and two Advanced Electives in law.

International Course structure

Students are required to complete 528 credit points, comprised of 192 credit points for the Bachelor of Science program and 336 credit points for the Bachelor of Laws program. You will study science and law units in your first four years and for the remainder of this course you will concentrate on law studies.

Under the Science component students will complete 16 units in total. Students will choose any of the following science majors that are offered in the [Bachelor of Science](#) (ST01) course: biology, chemistry, earth science, environmental science and physics.

Under the Law component students will complete 336 credit points of core units and a mixture of Introductory, General and Advanced Electives. Students may select up to 48 credit points of non-law electives or 48 credit points of a University-wide minor in place of four of the General Electives. Successful completion of a minor will be recognised on the Academic Record and / or the Australian Higher Education Graduation Statement.

Total Law credit points: 336
Total credit points for core units: 240
Total credit points for elective units: 96

Honours Level Units

96 credit points of Honours units listed below will be used to determine the Honours Levels of the LLB (Hons):

LLH201 Legal Research,
LLH206 Administrative Law,
LLH302 Ethics and the Legal Profession,
LLH305 Corporate Law,
LLH401 Legal Research Capstone (24 cps) and two Advanced Electives in law.

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](#)
- [Elective Information](#)

Code	Title
Year 1 Semester 1	
LLB101	Introduction to Law
LLB102	Torts
SEB115	Experimental Science 1
SEB116	Experimental Science 2
Year 1 Semester 2	
LLB105	Legal Problems and Communication
LLB106	Criminal Law
Science Core Unit	
Science Core Unit	
Year 2 Semester 1	
LLB104	Law in Context
LLB103	Dispute Resolution
SEB104	Grand Challenges in Science
OR Science Core Unit Option	
SEB113	Quantitative Methods in Science
OR Science Core Unit Option	
[SEB104, SEB113, and the 2 Science Core Unit Options are to be undertaken in Year 2, but the order is flexible.]	
Year 2 Semester 2	
LLH201	Legal Research
Introductory Law Elective	
SEB104	Grand Challenges in Science
OR Science Core Option	
SEB113	Quantitative Methods in Science
OR Science Core Option	
Year 3 Semester 1	
LLB202	Contract Law
LLB203	Constitutional Law
Science Major Unit	
Science Major Unit	
Year 3 Semester 2	
LLB204	Commercial and Personal Property Law
LLB205	Equity and Trusts
Science Major Unit	
Science Major Unit	
Year 4 Semester 1	
LLB301	Real Property Law
General Law Elective	
Science Major Unit	
Science Major Unit	
Year 4 Semester 2	
LLH206	Administrative Law
LLB303	Evidence
Science Major Unit	
Science Major Unit	
Year 5 Semester 1	
LLH302	Ethics and the Legal Profession
LLB304	Commercial Remedies
General Law Elective or Non-law Elective or University-wide Minor Unit	
General Law Elective or Non-law Elective or University-wide Minor Unit	
Year 5 Semester 2	
LLH305	Corporate Law
LLB306	Civil Procedure
General Law Elective or Non-law Elective or University-wide Minor Unit	

Code	Title
General Law Elective or Non-law Elective or University-wide Minor Unit	
Year 6 Semester 1	
LLH401	Legal Research Capstone
Advanced Law Elective	
Advanced Law Elective	
Elective Information	
Students may complete up to 4 non-law electives or a university wide minor comprised of 4 units in place of the equivalent number of general law electives.	

Semesters

- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)

Code	Title
Year 1, Semester 2	
BVB101	Foundations of Biology
BVB102	Evolution
Year 2, Semester 1	
BVB201	Biological Processes
BVB202	Experimental Design and Quantitative Methods
Year 2, Semester 2	
BVB203	Plant Biology
BVB204	Ecology
Year 3, Semester 1	
BVB301	Animal Biology
BVB305	Microbiology and the Environment
Year 3, Semester 2	
BVB302	Applied Biology
BVB304	Integrative Biology

Semesters

- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)

Code	Title
Year 1, Semester 2	
CVB101	General Chemistry
CVB102	Chemical Structure and Reactivity
Year 2, Semester 1	
CVB201	Inorganic Chemistry
CVB202	Analytical Chemistry
Year 2, Semester 2	
CVB203	Physical Chemistry
CVB204	Organic Structure and Mechanisms
Year 3, Semester 1	
CVB301	Organic Chemistry: Strategies for Synthesis
CVB302	Applied Physical Chemistry
Year 3, Semester 2	
CVB303	Coordination Chemistry
CVB304	Chemistry Research Project

Semesters

- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)

Bachelor of Science/Bachelor of Laws (Honours)

- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)

Code	Title
Year 1, Semester 2	
ERB101	Earth Systems
ERB102	Evolving Earth
Year 2, Semester 1	
ERB201	Destructive Earth
ERB202	Marine Geoscience
Year 2, Semester 2	
ERB203	Sedimentary Geology and Stratigraphy
ERB204	Deforming Earth
Year 3, Semester 1	
ERB301	Chemical Earth
ERB302	Applied Geophysics
Year 3, Semester 2	
ERB303	Energy Resources and Basin Analysis
ERB304	Dynamic Earth:Plate Tectonics

Semesters

- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)

Code	Title
Year 1, Semester 2	
ERB101	Earth Systems
EVB102	Ecosystems and the Environment
Year 2, Semester 1	
EVB201	Global Environmental Issues
BVB202	Experimental Design and Quantitative Methods
Year 2, Semester 2	
EVB203	Geospatial Information Science
EVB212	Soils and the Environment
Year 3, Semester 1	
EVB301	Urban and Natural Environmental Systems
EVB302	Environmental Pollution
Year 3, Semester 2	
ENB380	Environmental Law and Assessment
EVB304	Case Studies in Environmental Science

Semesters

- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)
- [Year 3, Semester 2](#)

Code	Title
Year 1, Semester 2	
PVB101	Physics of the Very Large
PVB102	Physics of the Very Small
Year 2, Semester 1	
PVB200	Computational and Mathematical Physics

Code	Title
PVB203	Experimental Physics
[PVB201 replaced by PVB200 in 2015.]	
Year 2, Semester 2	
PVB202	Mathematical Methods in Physics
PVB204	Electromagnetism
Year 3, Semester 1	
PVB301	Materials and Thermal Physics
PVB302	Classical and Quantum Physics
Year 3, Semester 2	
PVB303	Nuclear and Particle Physics
PVB304	Physics Research

Before enrolling in an option (elective) unit, you must ensure you have met any pre- or co-requisite requirements. You can check this by referring to the unit outlines on [QUT Virtual](#).

Introductory Law Electives	
Code	Title
LLB140	Human Rights Law
LLB141	Introduction to International Law
LLB142	Regulation of Business

General Law Electives List	
Code	Title
LLB240	Chinese Legal System
LLB241	Discrimination and Employment Law
LLB242	Media Law
LLB243	Family Law
LLB244	Criminal Law Sentencing
LLB340	Banking and Finance Law
LLB342	Immigration and Refugee Law
LLB343	Indigenous Cultural Heritage Law
LLB344	Intellectual Property Law
LLB345	Internet Law
LLB346	Succession Law
LLB347	Taxation Law
LLB440	Environmental Law
LLB443	Mining and Resources Law
LLB444	Real Estate Transactions
LLB445	International Commercial Arbitration
LLB460	Competition Moots A
LLB461	Competition Moots B
LLB462	Learning in Professional Practice
LLB463	Legal Clinic (Organised Program)
LLB464	Legal Clinic (Advanced)
LLB463 and LLB464 Apply through InPlace on QUT Virtual.	
The work application should contain this hyperlink https://inplace.qut.edu.au	

Advanced Law Electives	
Code	Title
LLH470	Commercial Contracts in Practice
LLH471	Health Law and Practice
LLH472	Public International Law
LLH473	Independent Research Project
LLH474	Insolvency Law
LLH475	Theories of Law
LLH476	Competition Law

Handbook

Year	2015
QUT code	IX87
CRICOS	083025D
Duration (full-time)	5.5 years
OP	5
Rank	91
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,800 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,500 per Study Period (48 credit points)
Total credit points	528
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	Mr Mike Roggenkamp (Information Technology); ph: 61 7 3138 8822; email: sef.enquiry@qut.edu.au; or, School of Law, Director of Undergraduate Programs: Jen Yule Amanda Stickley(Law Curriculum) and Jen Yule (Law Students)
Discipline Coordinator	Law: Jennifer Yule; IT: Professor Colin Fidge (Computer Science); and Taizan Chan (Information Systems). Law: +61 7 3138 2707; IT: +61 7 3138 8822 Law: lawandjustice@qut.edu.au; IT: sef.enquiry@qut.edu.au

Domestic Assumed knowledge

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

- Maths A, B or C
- English

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

International Subject prerequisites

- English

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 structure information

Students are required to complete 528 credit points, comprised of 192 credit points for the Bachelor of Information Technology program and 336 credit points for the Bachelor of Laws program.

Requirements for the completion of the Bachelor of Information Technology component are as follows:

(a) 72 credit points (6 units) of IT Core units, which includes 24 credit points (2 units) of Option Units selected from an approved list.

(b) 120 credit points (10 units) of Major Core units

Information Technology Majors

Choose your primary area of study, also known as your major, in the following specialisation areas: Information Systems or Computer Science.

Information Technology Options List

The Bachelor of Information Technology Core Unit Options List comprises a range of units from which you choose to undertake two (2). The options include introductory units from a wide variety of disciplines offered at QUT.

Under the Law component students will complete 336 credit points of core units and a mixture of Introductory, General and Advanced Electives. Students may select up to 48 credit points of non-law electives or 48 credit points of a University-wide minor in place of four of the General Electives. Successful completion of a minor will be recognised on the Academic Record and / or the Australian Higher Education Graduation Statement.

Total Law credit points: 336

Total credit points for core units: 240

Total credit points for elective units: 96

Honours Level Units

96 credit points of Honours units listed below will be used to determine the Honours Levels of the LLB (Hons):

LLH201 Legal Research,

LLH206 Administrative Law,
LLH302 Ethics and the Legal Profession,
LLH305 Corporate Law,
LLH401 Legal Research Capstone (24 cps) and two Advanced Electives in law.

Professional Recognition

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

The QUT LLB (Hons) is an approved degree for the purposes of the Legal Practitioners Admission Rules. Accordingly, it enables graduates to satisfy the academic requirements for admission to practise as a solicitor and/or barrister in all Australian states and territories.

Admission to practice

If, at the end of your degree, you wish to become a legal practitioner, you will need to complete further practical legal training (PLT). QUT also offers PLT in the form of the Graduate Diploma in Legal Practice.

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 e-government service delivery and political campaigning.

In developing the LLB (Hons) the Faculty recognises that graduates are increasingly seeking a broad range of careers including, but not limited to, legal practice. The defining nature of the QUT LLB (Hons) is its real-world applied nature which will equip you with advanced knowledge and research and other skills and that meet the needs of not only the legal profession, but also government, community organisations, business and industry.

The LLB (Hons) provides students with an opportunity to advance their knowledge of law in specialised areas through the elective units offered as part of the course. The elective units allow you to study areas of the law that match your career aspirations. Career opportunities include working in general legal practice, specialist legal practice, government departments and employment in private enterprise.

Pathways to Further Studies

The QUT Bachelor of Information Technology is located at Level 7 of the Australian Qualifications Framework (AQF). Eligible graduates may continue their studies in this discipline with an additional honours year in (IN10) Bachelor of Information Technology (Honours).

On successful completion of the Bachelor of Laws, there are a number of further study options open to you. The Bachelor of Laws meets the entry requirements for Practical Legal Training courses (for example, the QUT Graduate Diploma in Legal Practice). In addition, successful completion of the law degree will allow you to pursue postgraduate opportunities through research- and coursework-based higher degrees in law.

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more at [deferment](#)

Bachelor of Information Technology/Bachelor of Laws (Honours)

Domestic Course structure

Students are required to complete 528 credit points, comprised of 192 credit points for the Bachelor of Information Technology program and 336 credit points for the Bachelor of Laws program.

Requirements for the completion of the Bachelor of Information Technology component are as follows:

1. 72 credit points (6 units) of IT Core units, which includes 24 credit points (2 units) of Option Units selected from an approved list.
2. (b) 120 credit points (10 units) of Major Core units

Information Technology Majors

Choose your primary area of study, also known as your major, in the following specialisation areas: Information Systems or Computer Science.

Information Technology Options List

The Bachelor of Information Technology Core Unit Options List comprises a range of units from which you choose to undertake two (2). The options include introductory units from a wide variety of disciplines offered at QUT.

Under the Law component students will complete 336 credit points of core units and a mixture of Introductory, General and Advanced Electives. Students may select up to 48 credit points of non-law electives or 48 credit points of a University-wide minor in place of four of the General Electives. Successful completion of a minor will be recognised on the Academic Record and / or the Australian Higher Education Graduation Statement.

Total Law credit points: 336
Total credit points for core units: 240
Total credit points for elective units: 96

Honours Level Units

96 credit points of Honours units listed below will be used to determine the Honours Levels of the LLB (Hons):
LLH201 Legal Research,
LLH206 Administrative Law,
LLH302 Ethics and the Legal Profession,
LLH305 Corporate Law,
LLH401 Legal Research Capstone (24 cps) and two Advanced Electives in law.

International Course structure

Students are required to complete 528 credit points, comprised of 192 credit points for the Bachelor of Information Technology program and 336 credit points for the Bachelor of Laws program.

Requirements for the completion of the Bachelor of Information Technology component are as follows:

1. 72 credit points (6 units) of IT Core units, which includes 24 credit points (2 units) of Option Units selected from an approved list.
2. (b) 120 credit points (10 units) of Major Core units

Information Technology Majors

Choose your primary area of study, also known as your major, in the following specialisation areas: Information Systems or Computer Science.

Information Technology Options List

The Bachelor of Information Technology Core Unit Options List comprises a range of units from which you choose to undertake two (2). The options include introductory units from a wide variety of disciplines offered at QUT.

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Education Graduation Statement.

Total Law credit points: 336
Total credit points for core units: 240
Total credit points for elective units: 96

Honours Level Units

96 credit points of Honours units listed below will be used to determine the Honours Levels of the LLB (Hons):
LLH201 Legal Research,
LLH206 Administrative Law,
LLH302 Ethics and the Legal Profession,
LLH305 Corporate Law,
LLH401 Legal Research Capstone (24 cps) and two Advanced Electives in law.

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](#)

Code	Title
Year 1, Semester 1	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
LLB101	Introduction to Law
LLB102	Torts
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
LLB105	Legal Problems and Communication
LLB106	Criminal Law
Year 2, Semester 1	
IT Core Option Unit	
IT Core Option Unit	
LLB103	Dispute Resolution
LLB104	Law in Context
Year 2, Semester 2	
IT Major Unit	
IT Major Unit	
Introductory Law Elective	
LLH201	Legal Research
Year 3, Semester 1	
IT Major Unit	
IT Major Unit	
LLB202	Contract Law
LLB203	Constitutional Law
Year 3, Semester 2	
IT Major Unit	
IT Major Unit	
LLB204	Commercial and Personal Property Law
LLB205	Equity and Trusts
Year 4, Semester 1	
IT Major Unit	
IT Major Unit	
LLB301	Real Property Law
General Law Elective	
Year 4, Semester 2	

IT Major Unit	
IT Major Unit	
LLH206	Administrative Law
LLB303	Evidence
Year 5, Semester 1	
LLH302	Ethics and the Legal Profession
LLB304	Commercial Remedies
General Law Elective or Non-law Elective or University-wide Minor Unit	
General Law Elective or Non-law Elective or University-wide Minor Unit	
Year 5, Semester 2	
LLH305	Corporate Law
LLB306	Civil Procedure
General Law Elective or Non-law Elective or University-wide Minor Unit	
General Law Elective or Non-law Elective or University-wide Minor Unit	
Year 6, Semester 1	
LLH401	Legal Research Capstone
Advanced Law Elective	
Advanced Law Elective	

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
CAB201	Programming Principles
CAB202	Microprocessors and Digital Systems
Year 3, Semester 1	
CAB203	Discrete Structures
CAB302	Software Development
Year 3, Semester 2	
CAB303	Networks
IFB299	Application Design and Development
Year 4, Semester 1	
CAB301	Algorithms and Complexity
CAB398	Capstone Project (Phase 1)
Year 4, Semester 2	
CAB399	Capstone Project (Phase 2)
Select one of:	
CAB401	High Performance and Parallel Computing

Bachelor of Information Technology/Bachelor of Laws (Honours)

CAB402	Programming Paradigms
CAB403	Systems Programming

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
IAB201	Modelling Information Systems
IAB202	Business of Information Technology
Year 3, Semester 1	
IAB203	Business Process Modelling
IAB204	Business Analysis
Year 3, Semester 2	
IAB205	Corporate Systems
IFB299	Application Design and Development
Year 4, Semester 1	
IAB398	Capstone Project Part 1 - Design
Select one of:	
IAB302	Information Systems Consulting
IAB303	Business Intelligence
IAB304	Project Management
Year 4, Semester 2	
IAB399	Capstone Project
IAB301	Enterprise Architecture

Before enrolling in an option (elective) unit, you must ensure you have met any pre- or co-requisite requirements. You can check this by referring to the unit outlines on [QUT Virtual](#).

Introductory Law Electives	
Code	Title
LLB140	Human Rights Law
LLB141	Introduction to International Law
LLB142	Regulation of Business

General Law Electives List	
Code	Title
LLB240	Chinese Legal System
LLB241	Discrimination and Employment Law
LLB242	Media Law

LLB243	Family Law
LLB244	Criminal Law Sentencing
LLB340	Banking and Finance Law
LLB342	Immigration and Refugee Law
LLB343	Indigenous Cultural Heritage Law
LLB344	Intellectual Property Law
LLB345	Internet Law
LLB346	Succession Law
LLB347	Taxation Law
LLB440	Environmental Law
LLB443	Mining and Resources Law
LLB444	Real Estate Transactions
LLB445	International Commercial Arbitration
LLB460	Competition Moots A
LLB461	Competition Moots B
LLB462	Learning in Professional Practice
LLB463	Legal Clinic (Organised Program)
LLB464	Legal Clinic (Advanced)
LLB463 and LLB464 Apply through InPlace on QUT Virtual.	
The work application should contain this hyperlink https://inplace.qut.edu.au	

Advanced Law Electives	
Code	Title
LLH470	Commercial Contracts in Practice
LLH471	Health Law and Practice
LLH472	Public International Law
LLH473	Independent Research Project
LLH474	Insolvency Law
LLH475	Theories of Law
LLH476	Competition Law

Handbook

Year	2015
QUT code	MS10
CRICOS	080486K
Duration (full-time)	1 year
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$5,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$17,700 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Douglas Stebila; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor degree with a minimum grade point average (GPA) score of 4.5 (on QUT's 7-point scale) completed within the last 5 years in the fields of:

- mathematics
- computer science
- economics or finance
- physics
- engineering

Applicants are required to nominate their proposed topic and supervisor. Places are subject to supervisor availability.

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree with a minimum grade point average (GPA) score of 4.5 (on QUT's 7-point scale) completed within the last 5 years in the fields of:

- mathematics
- computer science
- economics or finance
- physics
- engineering

Applicants are required to nominate their proposed topic and supervisor. Places are subject to supervisor availability.

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 undertake a 36 credit point Research Project.

Overview

The Bachelor of Mathematics (Honours) course provides extended modern and rigorous training in mathematical sciences and related research, to prepare students both for higher-level graduate careers in industry and government and for research at PhD or Research Masters level. The course contributes to addressing the continuing shortage of highly trained mathematical scientists in Australia and abroad.

Through a combination of research and advanced coursework units, students pursue specialised studies in an area of mutual interest with a personal research mentor/supervisor. Research units will enable students to develop an understanding of the nature of mathematical and statistical approaches to solving real world, current research problems. Coursework units provide students the opportunity to develop much more advanced skills and knowledge compared with those built in the undergraduate course. The coursework emphasises mathematics and statistics that is required for current research and for a competitive edge in the employment market.

The course provides students with further depth of

knowledge and analytical skills expected of professionals who apply mathematics, computational methods, decision science and statistics in the workplace and in further research.

Course Structure

Requirements for the completion of MS10 Bachelor of Mathematics (Honours) are as follows:

CORE: Foundations of Research unit and Reviewing the Field unit

OPTION: A choice of either the *Expanded Research Strand* or the *Extended Coursework Strand*

Each strand comprises of coursework and a major research project supervised by QUT staff.

Career Outcomes

Mathematics graduates are employed across a wide range of areas. These include, but are not limited to, finance, investment, data analytics, defence and national security, research, information technology, engineering modelling and simulation, environmental science, health, management, marketing, logistics, media, and education. In addition to their knowledge and skills in mathematics, graduates are also highly valued for their analytical and problem-solving skills. Development of skills in communication, problem-solving, critical thinking and teamwork form an integral part of the course.

Professional Recognition

Graduates of this course may be eligible for membership of the Australian Mathematical Society, Statistical Society of Australia and/or the Australian Society for Operations Research

Pathways to Further Study

The QUT Bachelor of Mathematics (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Research Masters and/or Doctoral level programs.

Domestic Course structure

Students will undertake an extended coursework honours degree with a 36 credit point research project, 36 credit points of advanced coursework and 24 credit points of research preparation studies.

International Course structure

Students will undertake an extended coursework honours degree with a 36 credit point research project, 36 credit points of advanced coursework and 24 credit points of research preparation studies.

Sample Structure Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Maths Honours Unit Options \(Expanded Research\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
SEB402	Project Proposal
Select 12cp (1 Unit) from Maths Honours Unit Options	
Semester 2	

Bachelor of Mathematics (Honours)

SEB403	Honours Research Project
Select 12cp (1 Unit) from Maths Honours Unit Options	
Maths Honours Unit Options (Expanded Research)	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Maths Honours Unit Options \(Extended Coursework\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
Select 24cp (2 Units) from Maths Honours Unit Options	
Semester 2	
SEB404	Honours Research Project
Select 12cp (1 Unit) from Maths Honours Unit Options	
Maths Honours Unit Options (Extended Coursework)	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
SEB412	Advanced Topic 3

Handbook

Year	2015
QUT code	SC60
CRICOS	009041G
Duration (full-time)	1 year
Duration (part-time domestic)	2 years
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,200 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr David Hurwood; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr John McMurtrie (Chemistry); Dr David Hurwood (Ecology & Geology); Professor Peter Mather (Environmental Science); Associate Professor Terry Walsh (Life Science); Dr Scott McCue (Mathematics); Dr Esa Jaatinen (Physics)

Domestic Entry requirements

- 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

Course Update

As of 2014, this course is only available to continuing students. SC60 has been replaced by [ST10 Bachelor of Science \(Honours\)](#).

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.

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.

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.

Domestic Course structure

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.

International Course structure

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.

Sample Structure

Code	Title
Year 1, Semester 1	
PCB700-1	Research Project
PCB700-2	Research Project
PCB742	Elective Unit
PCB780-1	Advanced Topics in Chemistry 1
Year 1, Semester 2	
PCB700-3	Research Project
PCB700-4	Research Project
PCB700-5	Research Project
PCB780-2	Advanced Topics in Chemistry 1

Students wishing to apply for entry to BAppSc(Hons) should consult with the contact person for the relevant science discipline before applying (see contact details link above).

Code	Title
Year 1, Semester 1	
NRB720-1	Project
NRB730-1	Research Methods and Strategies
NRB730-2	Research Methods and

Bachelor of Applied Science (Honours)

	Strategies
NRB735	Advanced Studies in Resource Sciences
Year 1, Semester 2	
NRB720-2	Project
NRB720-3	Project
NRB720-4	Project
NRB720-5	Project
Students wishing to apply for entry into BAppSc(Hons) should consult with the contact person for the relevant science discipline before applying (see contact details link above).	

Code	Title
Year 1, Semester 1	
NRB720-1	Project
NRB730-1	Research Methods and Strategies
NRB730-2	Research Methods and Strategies
NRB735	Advanced Studies in Resource Sciences
Year 1, Semester 2	
NRB720-2	Project
NRB720-3	Project
NRB720-4	Project
NRB720-5	Project
Students wishing to apply for entry into BAppSc(Hons) should consult with the contact person for the relevant science discipline before applying (see contact details link above).	

Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [Elective List \(Mathematics\) - 60 credit points to be selected](#)

Code	Title
Year 1, Semester 1	
MAN787-1	Project
36 credit points of elective units selected from the list below*	
Year 1, Semester 2	
MAN787-2	Project
MAN787-3	Project
24 credit points of elective units selected from the list below*	
Elective List (Mathematics) - 60 credit points to be selected	
MAN200	Advanced Topics in Mathematical Sciences 1
MAN201	Advanced Topics in Mathematical Sciences 2
MAN717	Minor Project
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN765	Bayesian Data Analysis
MAN766	Time Series Analysis 2
MAN768	Advanced Techniques in Operations Research
MAN769	Mathematics of Finance
MAN771	Computational Mathematics 4
MAN774	Perturbation Methods
MAN775	Statistical Modelling of Financial Processes
MAN777	Mathematics of Fluid Flow
MAN778	Applications of Discrete Mathematics
Up to 12 credit points from the following lists can be	

included in the 60 credit points of electives:	
MAB522	Computational Mathematics 3
MAB524	Statistical Inference
MAB536	Time Series Analysis 1
MAB613	Partial Differential Equations
MAB672	Advanced Mathematical Modelling
Up to two units of a quantitative nature from another Faculty or School may be included with the permission of the Mathematics Coordinator. The unit(s) must be of honours level and relevant to the proposed program. Examples of suitable units are:	
EFN505	Financial Risk Management
PCB706	Quantum Mechanics
The Course Coordinator may approve a student taking 24 credit points of elective units (together with MAN787-1 and MAN787-2) in Semester 1 and 36 credit points of elective units (together with MAN787-3) in Semester 2.	
Students wishing to apply for entry to BAppSc(Hons) should consult with the contact person for the relevant science discipline before applying (see contact details link above).	

Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [Elective List \(Physics\)](#)

Code	Title
Year 1, Semester 1	
PCB700-1	Research Project
PCB700-2	Research Project
PCB706	Quantum Mechanics
Elective	
An alternative to PCB706 Quantum Mechanics may be permitted	
Year 1, Semester 2	
PCB700-3	Research Project
PCB700-4	Research Project
PCB700-5	Research Project
Elective	
Students wishing to apply for entry into BAppSc(Hons) should consult with the contact person for the relevant science discipline before applying (see contact details link above).	
Elective List (Physics)	
PCB708	Advanced Topics in Physics
PCN716	Advanced Topics in Physics 2
QQB660	Astrophysics 2
QQB661	Lasers and Photonics
PCB708 and PCN716 typically comprise two components chosen from atmospheric aerosol physics, classical mechanics, non-linear optics, quantum electrodynamics, advanced general relativity or aspects of units from the Masters in Medical Physics course.	

Handbook

Year	2015
QUT code	SE40
CRICOS	084922G
Duration (full-time)	5 years
OP	6
Rank	89
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,000 per Study Period (48 credit points)
Total credit points	384
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 R.Mahalinga-Iyer (Engineering major); Dr Tim Moroney (Mathematics major); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Professor Manicka Dhanasekar (Civil); Dr Wayne Kelly (Computer & Software Systems); Dr Jacob Coetzee (Electrical); Dr Felipe Gonzalez (Electrical & Aerospace); Professor Ted Steinberg (Mechanical); Dr Jason Ford (Mechatronics); Dr Devakar Epari (Medical); Associate Professor Robert Speight (Process); Dr Qianqian Yang (Applied and Computational Mathematics); Dr Kai Becker (Decision Science); and Dr Chris Drovandi (Statistical 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). Recommended Study: Chemistry, Mathematics C, 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, Mathematics C, 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	6.5

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours) in SE40, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours) in SE40, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB123	Civil Engineering Systems
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB270	Civil Engineering Materials
EGB273	Principles of Construction
EGB275	Structural Mechanics
Year 3 - Semester 2	
EGB272	Traffic and Transport Engineering
EGB376	Steel Design
Year 4 - Semester 1	
EGB371	Engineering Hydraulics
EGB375	Design of Concrete Structures
Year 4 - Semester 2	
EGB373	Geotechnical Engineering
EGH472	Advanced Highway and Pavement Engineering
EGH471	Advanced Water Engineering
Year 5 - Semester 1	
EGH400-1	Research Project 1
SEB400	Foundations of Research
EGH473	Advanced Geotechnical Engineering
Year 5 - Semester 2	
EGH475	Advanced Concrete Structures
EGH479	Advances in Civil Engineering Practice
EGH400-2	Research Project 2

Semesters

- [Year 1 - Semester 1](#)
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- [Year 2 - Semester 1](#)
- [Year 2 - Semester 2](#)
- [Year 3 - Semester 1](#)
- [Year 3 - Semester 2](#)

Bachelor of Engineering (Honours)/Bachelor of Mathematics

- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
LSB131	Anatomy
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
Year 4 - Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
Year 4 - Semester 2	
EGB314	Strength of Materials
EGH418	Biomechanics
EGH424	Biofluids
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH414	Stress Analysis
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH438	Biomaterials
EGH435	Modelling and Simulation for Medical Engineers

Semesters

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- [Year 2 - Semester 1](#)
- [Year 2 - Semester 2](#)
- [Year 3 - Semester 1](#)
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- [Year 4 - Semester 1](#)
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- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
LSB131	Anatomy
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
Year 4 - Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
Year 4 - Semester 2	
EGB314	Strength of Materials
EGH418	Biomechanics
EGH424	Biofluids
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH414	Stress Analysis
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH438	Biomaterials
EGH435	Modelling and Simulation for Medical Engineers

Semesters

- [Year 1 - Semester 1](#)
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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics

OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB361	Minerals and Minerals Processing
EGB260	Operations Management and Process Economics
CVB101	General Chemistry
Year 3 - Semester 2	
EGB211	Dynamics
EGB322	Thermodynamics
Year 4 - Semester 1	
EGB323	Fluid Mechanics
EGH461	Unit Operations
Year 4 - Semester 2	
EGB360	Plant and Process Design
EGB363	Safety and Environmental Management
EGH422	Advanced Thermodynamics
Year 5 - Semester 1	
EGH423	Fluids Dynamics
SEB400	Foundations of Research
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH411	Industrial Chemistry
EGH460	Advanced Process Modelling
EGH400-2	Research Project 2

Semesters

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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice

Bachelor of Engineering (Honours)/Bachelor of Mathematics

MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB220	Mechatronics Design 1
EGB242	Signal Analysis
EGB211	Dynamics
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB345	Control and Dynamic Systems
Year 4 - Semester 1	
EGB320	Mechatronics Design 2
EGH446	Autonomous Systems
Year 4 - Semester 2	
EGH445	Modern Control
Intermediate Electrical Option Unit	
Intermediate Mechanical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH419	Mechatronics Design 3
EGH400-1	Research Project 1
Year 5 - Semester 2	
Advanced Mechanical Option Unit	
Advanced Electrical Option Unit	
EGH400-2	Research Project 2

Semesters

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- [Year 3 - Semester 1](#)
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- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics

Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB241	Electromagnetics and Machines
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB340	Design and Practice
Advanced Electrical Option Unit	
Year 4 - Semester 2	
Intermediate Electrical Option Unit	
Intermediate Electrical Option Unit	
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
Advanced Electrical Option Unit	
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Electrical Option Unit	
Advanced Electrical Option Unit	

Semesters

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- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	

EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB243	Aircraft Systems and Flight
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB349	Systems Engineering and Design Project
Advanced Electrical Option Unit	
Year 4 - Semester 2	
EGB345	Control and Dynamic Systems
EGB346	Unmanned Aircraft Systems
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH446	Autonomous Systems
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH445	Modern Control
EGH450	Advanced Unmanned Aircraft Systems

Semesters

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- [Year 2 - Semester 1](#)
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- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
CAB201	Programming Principles
Year 3 - Semester 2	

Bachelor of Engineering (Honours)/Bachelor of Mathematics

EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGH456	Embedded Systems
Intermediate Software Option Unit	
Year 4 - Semester 2	
CAB403	Systems Programming
EGH455	Advanced Systems Design
Intermediate Electrical or Software Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
Advanced Electrical Option Unit	
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Software Option Unit	
Advanced Electrical or Software Option Unit	

EGH441	Power System Modelling
EGH442	RF Techniques and Applications
EGH443	Advanced Telecommunications
EGH444	Digital Signals and Image Processing
EGH445	Modern Control
EGH446	Autonomous Systems
EGH448	Power Electronics
EGH449	Advanced Electronics

Foundation/Maths Alternative Unit Option List

Code	Title
MZB125	Introductory Engineering Mathematics
(Only for students who haven't completed Maths C)	
BVB101	Foundations of Biology
CVB101	General Chemistry
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
EGB131	Natural Hazard Engineering
ERB102	Evolving Earth
ERB204	Deforming Earth
EVB102	Ecosystems and the Environment
EVB203	Geospatial Information Science
IFB104	Building IT Systems
MXB105	Calculus of One and Two Variables
MXB106	Linear Algebra and Differential Equations
MXB107	Statistical Models for Data: Relationships and Effects
MXB161	Computational Explorations
OUB110	Am I black enough? Indigenous Australian Representations
OUB130	Indigenous Knowledge: Research Ethics and Protocols
PVB102	Physics of the Very Small

Select 36cp from the Intermediate Electrical Unit Options below:

Code	Title
EGB341	Energy Supply and Delivery
EGB342	Telecommunications and Signal Processing
EGB345	Control and Dynamic Systems
EGB348	Electronics

Select 60cp from the Advanced Electrical Unit Options below:

Code	Title
EGH440	Power Systems Analysis

Handbook

Year	2015
QUT code	SE60
CRICOS	084923F
Duration (full-time)	5 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,000 per Study Period (48 credit points)
Total credit points	480
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 R.Mahalinga-Iyer (Engineering); Mr Mike Roggenkamp (Information Technology); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Professor Manicka Dhanasekar (Civil); Dr Wayne Kelly (Computer & Software Systems); Dr Jacob Coetzee (Electrical); Dr Felipe Gonzalez (Electrical & Aerospace); Professor Ted Steinberg (Mechanical); Dr Jason Ford (Mechatronics); Dr Devakar Epari (Medical); Associate Professor Robert Speight (Process); Professor Colin Fidge (Computer Science); and Taizan Chan (Information Systems).

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	6.5

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours) in SE60, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours) in SE60, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

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	
IFB101	Impact of IT
IFB102	Computer Technology Fundamentals
Year 1, Semester 2	
IFB103	Designing for IT
IFB104	Building IT Systems
Year 2, Semester 1	
IT Core Unit Option	
IT Core Unit Option	
Year 2, Semester 2	
IAB201	Modelling Information Systems
IAB202	Business of Information Technology
Year 3, Semester 1	
IAB203	Business Process Modelling
IAB204	Business Analysis
Year 3, Semester 2	
IAB205	Corporate Systems
IFB299	Application Design and Development
Year 4, Semester 1	
IAB398	Capstone Project Part 1 - Design
Select one of:	
IAB302	Information Systems Consulting
IAB303	Business Intelligence
IAB304	Project Management
Year 4, Semester 2	
IAB399	Capstone Project
IAB301	Enterprise Architecture

Semesters

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- [Year 3 - Semester 2](#)
- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	

Bachelor of Engineering (Honours)/Bachelor of Information Technology

EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB123	Civil Engineering Systems
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB270	Civil Engineering Materials
EGB273	Principles of Construction
EGB275	Structural Mechanics
Year 3 - Semester 2	
EGB272	Traffic and Transport Engineering
EGB376	Steel Design
Year 4 - Semester 1	
EGB371	Engineering Hydraulics
EGB375	Design of Concrete Structures
Year 4 - Semester 2	
EGB373	Geotechnical Engineering
EGH472	Advanced Highway and Pavement Engineering
EGH471	Advanced Water Engineering
Year 5 - Semester 1	
EGH400-1	Research Project 1
SEB400	Foundations of Research
EGH473	Advanced Geotechnical Engineering
Year 5 - Semester 2	
EGH475	Advanced Concrete Structures
EGH479	Advances in Civil Engineering Practice
EGH400-2	Research Project 2

Semesters

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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](#)
- [Year 5 - Semester 1](#)
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Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics

Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
EGB314	Strength of Materials
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB321	Dynamics of Machines
Year 4 - Semester 1	
EGB323	Fluid Mechanics
EGB316	Design of Machine Elements
Year 4 - Semester 2	
EGB322	Thermodynamics
EGH414	Stress Analysis
EGH421	Vibration and Control
Year 5 - Semester 1	
EGH423	Fluids Dynamics
SEB400	Foundations of Research
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH422	Advanced Thermodynamics
EGH420	Mechanical Systems Design
EGH400-2	Research Project 2

Semesters

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- [Year 3 - Semester 1](#)
- [Year 3 - Semester 2](#)
- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
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Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	

Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
LSB131	Anatomy
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
Year 4 - Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
Year 4 - Semester 2	
EGB314	Strength of Materials
EGH418	Biomechanics
EGH424	Biofluids
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH414	Stress Analysis
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH438	Biomaterials
EGH435	Modelling and Simulation for Medical Engineers

Semesters

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- [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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB361	Minerals and Minerals Processing
EGB260	Operations Management and Process Economics

Bachelor of Engineering (Honours)/Bachelor of Information Technology

CVB101	General Chemistry
Year 3 - Semester 2	
EGB211	Dynamics
EGB322	Thermodynamics
Year 4 - Semester 1	
EGB323	Fluid Mechanics
EGH461	Unit Operations
Year 4 - Semester 2	
EGB360	Plant and Process Design
EGB363	Safety and Environmental Management
EGH422	Advanced Thermodynamics
Year 5 - Semester 1	
EGH423	Fluids Dynamics
SEB400	Foundations of Research
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH411	Industrial Chemistry
EGH460	Advanced Process Modelling
EGH400-2	Research Project 2

Semesters

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- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB220	Mechatronics Design 1
EGB242	Signal Analysis
EGB211	Dynamics
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB345	Control and Dynamic Systems

Year 4 - Semester 1	
EGB320	Mechatronics Design 2
EGH446	Autonomous Systems
Year 4 - Semester 2	
EGH445	Modern Control
Intermediate Electrical Option Unit	
Intermediate Mechanical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH419	Mechatronics Design 3
EGH400-1	Research Project 1
Year 5 - Semester 2	
Advanced Mechanical Option Unit	
Advanced Electrical Option Unit	
EGH400-2	Research Project 2

Semesters

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- [Year 3 - Semester 2](#)
- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB241	Electromagnetics and Machines
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB340	Design and Practice
Advanced Electrical Option Unit	
Year 4 - Semester 2	
Intermediate Electrical Option Unit	
Intermediate Electrical Option Unit	

Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
Advanced Electrical Option Unit	
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Electrical Option Unit	
Advanced Electrical Option Unit	

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB243	Aircraft Systems and Flight
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB349	Systems Engineering and Design Project
Advanced Electrical Option Unit	
Year 4 - Semester 2	
EGB345	Control and Dynamic Systems
EGB346	Unmanned Aircraft Systems
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH446	Autonomous Systems
EGH400-1	Research Project 1

Bachelor of Engineering (Honours)/Bachelor of Information Technology

Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH445	Modern Control
EGH450	Advanced Unmanned Aircraft Systems

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
CAB201	Programming Principles
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGH456	Embedded Systems
Intermediate Software Option Unit	
Year 4 - Semester 2	
CAB403	Systems Programming
EGH455	Advanced Systems Design
Intermediate Electrical or Software Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
Advanced Electrical Option Unit	
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Software Option Unit	
Advanced Electrical or Software Option Unit	

Foundation/Maths Alternative Unit Option List

Code	Title
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MZB125	Introductory Engineering Mathematics
(Only for students who haven't completed Maths C)	
BVB101	Foundations of Biology
CVB101	General Chemistry
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
EGB131	Natural Hazard Engineering
ERB102	Evolving Earth
ERB204	Deforming Earth
EVB102	Ecosystems and the Environment
EVB203	Geospatial Information Science
IFB104	Building IT Systems
MXB105	Calculus of One and Two Variables
MXB106	Linear Algebra and Differential Equations
MXB107	Statistical Models for Data: Relationships and Effects
MXB161	Computational Explorations
OUB110	Am I black enough? Indigenous Australian Representations
OUB130	Indigenous Knowledge: Research Ethics and Protocols
PVB102	Physics of the Very Small

Select 36cp from the Intermediate Electrical Unit Options below:

Code	Title
EGB341	Energy Supply and Delivery
EGB342	Telecommunications and Signal Processing
EGB345	Control and Dynamic Systems
EGB348	Electronics

Select 60cp from the Advanced Electrical Unit Options below:

Code	Title
EGH440	Power Systems Analysis
EGH441	Power System Modelling
EGH442	RF Techniques and Applications
EGH443	Advanced Telecommunications
EGH444	Digital Signals and Image Processing
EGH445	Modern Control
EGH446	Autonomous Systems
EGH448	Power Electronics
EGH449	Advanced Electronics

Handbook

Year	2015
QUT code	SE80
CRICOS	084924E
Duration (full-time)	5 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,600 per study period (48 credit points)
Total credit points	480
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 R.Mahalinga-Iyer (Engineering); Dr Graham Johnson (Science); ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Professor Manicka Dhanasekar (Civil); Dr Wayne Kelly (Computer & Software Systems); Dr Jacob Coetzee (Electrical); Dr Felipe Gonzalez (Electrical & Aerospace); Professor Ted Steinberg (Mechanical); Dr Jason Ford (Mechatronics); Dr Devakar Epari (Medical); and Associate Professor Robert Speight (Process); Dr Marion Bateson (Biological Science); Associate Professor Eric Waclawik; Dr Jessica Trofimovs (Earth Science); Dr Andrew Baker (Environmental Science); and Dr Kristy Vernon (Physics).

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	6.5

Domestic Course structure

To graduate with a Bachelor of Engineering (Honours) in SE80, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

International Course structure

To graduate with a Bachelor of Engineering (Honours) in SE80, students are required to complete 288 credit points of course units, as outlined below:

- First Year: Four (4) core units 48cp + two (2) Discipline Foundation units 24cp + two (2) option units 24cp (96 credit points)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)

Honours units to consist of:

- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB123	Civil Engineering Systems
EGB120	Foundations of Electrical Engineering
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB270	Civil Engineering Materials
EGB273	Principles of Construction
EGB275	Structural Mechanics
Year 3 - Semester 2	
EGB272	Traffic and Transport Engineering
EGB376	Steel Design
Year 4 - Semester 1	
EGB371	Engineering Hydraulics
EGB375	Design of Concrete Structures
Year 4 - Semester 2	
EGB373	Geotechnical Engineering
EGH472	Advanced Highway and Pavement Engineering
EGH471	Advanced Water Engineering
Year 5 - Semester 1	
EGH400-1	Research Project 1
SEB400	Foundations of Research
EGH473	Advanced Geotechnical Engineering
Year 5 - Semester 2	
EGH475	Advanced Concrete Structures
EGH479	Advances in Civil Engineering Practice
EGH400-2	Research Project 2

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](#)

Bachelor of Engineering (Honours)/Bachelor of Science

- [Year 4 - Semester 1](#)
- [Year 4 - Semester 2](#)
- [Year 5 - Semester 1](#)
- [Year 5 - Semester 2](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
LSB131	Anatomy
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
Year 4 - Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
Year 4 - Semester 2	
EGB314	Strength of Materials
EGH418	Biomechanics
EGH424	Biofluids
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH414	Stress Analysis
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH438	Biomaterials
EGH435	Modelling and Simulation for Medical Engineers

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB211	Dynamics
EGB214	Materials and Manufacturing
LSB131	Anatomy
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
LSB231	Physiology
Year 4 - Semester 1	
EGB319	BioDesign
EGB323	Fluid Mechanics
Year 4 - Semester 2	
EGB314	Strength of Materials
EGH418	Biomechanics
EGH424	Biofluids
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
EGH414	Stress Analysis
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH438	Biomaterials
EGH435	Modelling and Simulation for Medical Engineers

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics

OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB361	Minerals and Minerals Processing
EGB260	Operations Management and Process Economics
CVB101	General Chemistry
Year 3 - Semester 2	
EGB211	Dynamics
EGB322	Thermodynamics
Year 4 - Semester 1	
EGB323	Fluid Mechanics
EGH461	Unit Operations
Year 4 - Semester 2	
EGB360	Plant and Process Design
EGB363	Safety and Environmental Management
EGH422	Advanced Thermodynamics
Year 5 - Semester 1	
EGH423	Fluids Dynamics
SEB400	Foundations of Research
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH411	Industrial Chemistry
EGH460	Advanced Process Modelling
EGH400-2	Research Project 2

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice

Bachelor of Engineering (Honours)/Bachelor of Science

MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB220	Mechatronics Design 1
EGB242	Signal Analysis
EGB211	Dynamics
Year 3 - Semester 2	
EGB210	Fundamentals of Mechanical Design
EGB345	Control and Dynamic Systems
Year 4 - Semester 1	
EGB320	Mechatronics Design 2
EGH446	Autonomous Systems
Year 4 - Semester 2	
EGH445	Modern Control
Intermediate Electrical Option Unit	
Intermediate Mechanical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH419	Mechatronics Design 3
EGH400-1	Research Project 1
Year 5 - Semester 2	
Advanced Mechanical Option Unit	
Advanced Electrical Option Unit	
EGH400-2	Research Project 2

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics

Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB241	Electromagnetics and Machines
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB340	Design and Practice
Advanced Electrical Option Unit	
Year 4 - Semester 2	
Intermediate Electrical Option Unit	
Intermediate Electrical Option Unit	
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH400-1	Research Project 1
Advanced Electrical Option Unit	
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Electrical Option Unit	
Advanced Electrical Option Unit	

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	

EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
EGB243	Aircraft Systems and Flight
Year 3 - Semester 2	
EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGB349	Systems Engineering and Design Project
Advanced Electrical Option Unit	
Year 4 - Semester 2	
EGB345	Control and Dynamic Systems
EGB346	Unmanned Aircraft Systems
Advanced Electrical Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
EGH446	Autonomous Systems
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
EGH445	Modern Control
EGH450	Advanced Unmanned Aircraft Systems

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](#)

Code	Title
Year 1 - Semester 1	
EGB113	Energy in Engineering Systems
MZB125	Introductory Engineering Mathematics
OR	
MZB126	Engineering Computation
Year 1 - Semester 2	
EGB100	Engineering Sustainability and Professional Practice
MZB126	Engineering Computation
OR	
Maths Alternative Unit Option	
Year 2 - Semester 1	
EGB111	Foundation of Engineering Design
EGB121	Engineering Mechanics
Year 2 - Semester 2	
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
OR	
Foundation Unit Option	
Year 3 - Semester 1	
EGB240	Electronic Design
CAB202	Microprocessors and Digital Systems
CAB201	Programming Principles
Year 3 - Semester 2	

Bachelor of Engineering (Honours)/Bachelor of Science

EGB242	Signal Analysis
Intermediate Electrical Option Unit	
Year 4 - Semester 1	
EGH456	Embedded Systems
Intermediate Software Option Unit	
Year 4 - Semester 2	
CAB403	Systems Programming
EGH455	Advanced Systems Design
Intermediate Electrical or Software Option Unit	
Year 5 - Semester 1	
SEB400	Foundations of Research
Advanced Electrical Option Unit	
EGH400-1	Research Project 1
Year 5 - Semester 2	
EGH400-2	Research Project 2
Advanced Software Option Unit	
Advanced Electrical or Software Option Unit	

EGH441	Power System Modelling
EGH442	RF Techniques and Applications
EGH443	Advanced Telecommunications
EGH444	Digital Signals and Image Processing
EGH445	Modern Control
EGH446	Autonomous Systems
EGH448	Power Electronics
EGH449	Advanced Electronics

Foundation/Maths Alternative Unit Option List

Code	Title
MZB125	Introductory Engineering Mathematics
(Only for students who haven't completed Maths C)	
BVB101	Foundations of Biology
CVB101	General Chemistry
EGB120	Foundations of Electrical Engineering
EGB123	Civil Engineering Systems
EGB131	Natural Hazard Engineering
ERB102	Evolving Earth
ERB204	Deforming Earth
EVB102	Ecosystems and the Environment
EVB203	Geospatial Information Science
IFB104	Building IT Systems
MXB105	Calculus of One and Two Variables
MXB106	Linear Algebra and Differential Equations
MXB107	Statistical Models for Data: Relationships and Effects
MXB161	Computational Explorations
OUB110	Am I black enough? Indigenous Australian Representations
OUB130	Indigenous Knowledge: Research Ethics and Protocols
PVB102	Physics of the Very Small

Select 36cp from the Intermediate Electrical Unit Options below:

Code	Title
EGB341	Energy Supply and Delivery
EGB342	Telecommunications and Signal Processing
EGB345	Control and Dynamic Systems
EGB348	Electronics

Select 60cp from the Advanced Electrical Unit Options below:

Code	Title
EGH440	Power Systems Analysis

Handbook

Year	2015
QUT code	ST10
CRICOS	080487J
Duration (full-time)	1 year
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$15,000 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr David Hurwood; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr David Hurwood (Biological Sciences, and Environmental Science), Dr John McMurtrie (Chemistry), Professor David Gust (Earth Sciences), Dr Konstantin Momot (Physics)

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor degree in science or equivalent with a minimum grade point average (GPA) score of 4.5 (on a 7-point scale), completed within the last five years.

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree in science or equivalent with a minimum grade point average (GPA) score of 4.5 (on a 7-point scale), completed within the last five years.

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

The Bachelor of Science (Honours) allows you to further develop specific areas of expertise in science by providing extended modern and rigorous training in science. It prepares you both for higher-level graduate careers in industry and government and for research at PhD or Research Masters level.

Through a combination of research and advanced coursework units, you will pursue specialised studies in an area of mutual interest with a personal research mentor/supervisor. You will develop high level skills in a specific discipline area (Biological Science, Earth Science, Environmental Science, Chemistry or Physics) and acquire research skills appropriate to your discipline. Coursework units provide you the opportunity to develop much more advanced skills and knowledge compared with those built in the undergraduate course. You will design and undertake experimental programs in either laboratory or field settings to solve complex problems. A research project allows you to demonstrate your advanced academic capability and culminates in the completion of an honours thesis.

Course Design

Requirements for the completion of ST10 Bachelor of Science(Honours) (Study Area A) are as follows:

STUDY AREA A: 96 credit points (6 units) comprising One (1) Major from the following:

- Biological Sciences
- Chemistry
- Earth Science
- Environmental Science
- Physics

Each Major is comprised of the Core units Foundations of Research and Reviewing the Field, and the choice of either the *Expanded Research* Strand or the *Extended Coursework* Strand.

Each strand comprises of coursework and a major research project supervised by QUT staff.

Career Outcomes

Research, Graduate employment in industry or government.

Professional Recognition

Membership in professional organisations is not specifically tied to the completion of an Honours degree as entry requirements are met by the completion of the Bachelors degree.

Pathways to Further Study

The QUT Bachelor of Science (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Honours provides the key research pathway to postgraduate study. The program is designed to easily articulate into a Master of Science (Research) with one year advanced standing or into a PhD (depending upon the level of Honours attained).

Domestic Course structure

You must complete 96 credit points (6 units) from one of the following study areas:

- Biological Sciences
- Chemistry
- Earth Science
- Environmental Science
- Physics

You'll need to choose between either expanded research or extended coursework for whichever study area you choose.

International Course structure

You must complete 96 credit points (6 units) from one of the following study areas:

- Biological Sciences
- Chemistry
- Earth Science
- Environmental Science
- Physics

You'll need to choose between either expanded research or extended coursework for whichever study area you choose.

Sample Structure Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Biological Sciences Honours Unit Options \(Expanded Research\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
SEB402	Project Proposal
Select 12cp (1 Unit) from Biological Sciences Honours Unit Options	
Semester 2	
SEB403	Honours Research Project
Select 12cp (1 Unit) from Biological Sciences Honours Unit Options	
Biological Sciences Honours Unit Options (Expanded Research)	
Select 24cp (2 units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
BVB311	Conservation Biology
BVB312	Pest Management

Bachelor of Science (Honours)

BVB313	Population Genetics and Molecular Ecology
BVB314	Genetics and Genomes
BVB315	Plant Molecular Biology
BVB321	Invasion Ecology
BVB322	Ecosystem Ecology
BVB323	Genomics
BVB324	Genomic Data Analysis
BVB325	Plant Tissue Culture and Biotechnology
BVB326	Applications in Plant Biotechnology

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Biological Sciences Honours Unit Options \(Extended Coursework\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
Select 24cp (2 Units) from Biological Sciences Honours Unit Options	
Semester 2	
SEB404	Honours Research Project
Select 12cp (1 Unit) from Biological Sciences Honours Unit Options	
Biological Sciences Honours Unit Options (Extended Coursework)	
Select 36cp (3 units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
SEB412	Advanced Topic 3
BVB311	Conservation Biology
BVB312	Pest Management
BVB313	Population Genetics and Molecular Ecology
BVB314	Genetics and Genomes
BVB315	Plant Molecular Biology
BVB321	Invasion Ecology
BVB322	Ecosystem Ecology
BVB323	Genomics
BVB324	Genomic Data Analysis
BVB325	Plant Tissue Culture and Biotechnology
BVB326	Applications in Plant Biotechnology

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Chemistry Honours Unit Options \(Expanded Research\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
SEB402	Project Proposal
Select 12cp (1 Unit) from Chemistry Honours Unit Options	
Semester 2	
SEB403	Honours Research Project

Select 12cp (1 Unit) from Chemistry Honours Unit Options	
Chemistry Honours Unit Options (Expanded Research)	
Select 24cp (2 units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
Other specialised Advanced Units - consult Course Coordinator	

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Chemistry Honours Unit Options \(Extended Coursework\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
Select 24cp (2 Units) from Chemistry Honours Unit Options	
Semester 2	
SEB404	Honours Research Project
Select 12cp (1 Unit) from Chemistry Honours Unit Options	
Chemistry Honours Unit Options (Extended Coursework)	
Select 36cp (3 units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
SEB412	Advanced Topic 3
Other specialised Advanced Units - consult Course Coordinator	

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Earth Science Honours Unit Options \(Expanded Research\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
SEB402	Project Proposal
Select 12cp (1 Unit) from Earth Science Honours Unit Options	
Semester 2	
SEB403	Honours Research Project
Select 12cp (1 Unit) from Earth Science Honours Unit Options	
Earth Science Honours Unit Options (Expanded Research)	
Select 24cp (2 units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
Other specialised Advanced Units - consult Course Coordinator	

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Earth Science Honours Unit Options \(Extended Coursework\)](#)

Code	Title
Semester 1	

SEB400	Foundations of Research
SEB401	Reviewing the Field
Select 24cp (2 Units) from Earth Science Honours Unit Options	
Semester 2	
SEB404	Honours Research Project
Select 12cp (1 Unit) from Earth Science Honours Unit Options	
Earth Science Honours Unit Options (Extended Coursework)	
Select 36cp (3 units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
SEB412	Advanced Topic 3
Other specialised Advanced Units - consult Course Coordinator	

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Environmental Science Honours Unit Options \(Expanded Research\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
SEB402	Project Proposal
Select 12cp (1 Unit) from Environmental Science Honours Unit Options	
Semester 2	
SEB403	Honours Research Project
Select 12cp (1 Unit) from Environmental Science Honours Unit Options	
Environmental Science Honours Unit Options (Expanded Research)	
Select 24cp (2 units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
Other specialised Advanced Units - consult Course Coordinator	

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Environmental Science Honours Unit Options \(Extended Coursework\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
Select 24cp (2 Units) from Environmental Science Honours Unit Options	
Semester 2	
SEB404	Honours Research Project
Select 12cp (1 Unit) from Environmental Science Honours Unit Options	
Environmental Science Honours Unit Options (Extended Coursework)	
Select 36cp (3 units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
SEB412	Advanced Topic 3

Bachelor of Science (Honours)

Other specialised Advanced Units - consult Course Coordinator

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Physics Honours Unit Options \(Expanded Research\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
SEB402	Project Proposal
Select 12cp (1 Unit) from Physics Honours Unit Options	
Semester 2	
SEB403	Honours Research Project
Select 12cp (1 Unit) from Physics Honours Unit Options	
Physics Honours Unit Options (Expanded Research)	
Select 24cp (2 units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
Other specialised Advanced Units - consult Course Coordinator	

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Physics Honours Unit Options \(Extended Coursework\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
Select 24cp (2 Units) from Physics Honours Unit Options	
Semester 2	
SEB404	Honours Research Project
Select 12cp (1 Unit) from Physics Honours Unit Options	
Physics Honours Unit Options (Extended Coursework)	
Select 36cp (3 units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
SEB412	Advanced Topic 3
Other specialised Advanced Units - consult Course Coordinator	

Handbook

Year	2015
QUT code	UD01
CRICOS	080479J
Duration (full-time)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	384
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Enquiries to: Science and Engineering Faculty; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au

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 program has been designed to provide you with a real life exposure to a range of urban development disciplines to understand how your chosen course helps to prepare you for a rewarding career in the built environment. You have the opportunity to collaborate with your peers and teaching staff at QUT and to learn in exciting new learning environments. Throughout the course you will experience a range of site visits and fieldwork that will link the theory in lectures to everyday situations in your chosen field of study. You will learn about a range of career opportunities and professional outcomes that will enable you to optimise your experience and potential career. Your major will provide you with in depth knowledge and expertise in an urban development discipline. You will also have the opportunity to undertake a second major or two minors in an area that will broaden your urban development experience and/or complement your first major.

Course Design

Your QUT Bachelor of Urban Development (Honours) degree consists of 384 credit points (32 units) arranged as follows:

(a) 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.

(b) 216 credit points (18 units) comprising one (1) major from the following:

- Construction Management
- Quantity Surveying and Cost Engineering
- Urban and Regional Planning

(c)

96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each) from the options specified for your chosen major.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs

Domestic Course structure Course Design

Your QUT Bachelor of Urban Development (Honours) degree consists of 384 credit points (32 units) arranged as follows:

(a) 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.

(b) 216 credit points (18 units) comprising one (1) major from the following:

- Construction Management
- Quantity Surveying and Cost Engineering
- Urban and Regional Planning

(c) 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each) from the options specified for your chosen major.

International Course structure Course Design

Your QUT Bachelor of Urban Development (Honours) degree consists of 384 credit points (32 units) arranged as follows:

(a) 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.

(b) 216 credit points (18 units) comprising one (1) major from the following:

- Construction Management
- Quantity Surveying and Cost Engineering
- Urban and Regional Planning

(c) 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each) from the options specified for your chosen major.

Handbook

Year	2015
QUT code	UD01
CRICOS	080479J
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	384
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	Enquiries to: Science and Engineering Faculty; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Matthew Gray sef.enquiry@qut.edu.au

Domestic Assumed knowledge

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

- Maths A, B or C
- English

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

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

The QUT Bachelor of Urban Development (Honours) degree with a primary major (Study Area A) in Construction Management is designed to provide you with 'real-life' exposure, and the knowledge and skills to prepare you for rewarding career in the Construction, Development and associated industries. With the capacity, will and innovation to contribute to a better built environment, as a work-ready graduate, you will be able to apply sound judgement and expertise in practice managing complex built environments.

Course Design

Your QUT Bachelor of Urban Development (Honours) (Construction Management) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Construction Management discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Construction Management Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher order thinking to an advanced level.

Complementary Studies Options

Second Major:

A choice of one second major from:

Urban Development disciplines:

- Urban and Regional Planning Studies
- Property
- Accountancy
- Applied Economics and Finance

(additional second major choices are currently under development)

Minors:

A choice of two minors from the lists below:

Urban Development disciplines:

- Urban and Regional Planning Studies
- Property Development
- Property Investment and Finance
- Property Valuation

Other disciplines:

- Language Minors – University Wide Options
- [University Wide Minors](#)

Special Course Requirements

You are required to obtain a minimum of 80 days of approved construction management industrial experience as part of your Work Integrated Learning core unit.

Professional Recognition

Graduates are eligible for membership of the Australian Institute of Building (AIB)

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs

Domestic Course structure Course Design

Your QUT Bachelor of Urban Development (Honours) (Construction Management) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
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Construction Management Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher-order thinking to an advanced level.

Bachelor of Urban Development (Honours) (Construction Management)

Complementary Studies Options

Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also available.

Second Majors

A second major provides the opportunity for you to undertake significant studies in a second Urban Development discipline such as Property Economics, Urban and Regional Planning, Accountancy or Applied Economics and Finance. Second majors are also designed to provide diverse professional skills and knowledge beyond the traditional reaches of the built environment curriculum and can offer a range of study options in other fields.

Minors

Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

International Course structure

Course Design

Your QUT Bachelor of Urban Development (Honours) (Construction Management) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Construction Management discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Construction Management Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher order thinking to an advanced level.

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Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also available.

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Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

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	
USB100	Understanding the Built Environment
UXB110	Residential Construction
UXB111	Imagine Construction Management
UXB112	Introduction to Structures
Year 1, Semester 2	
BSB113	Economics
LWS012	Urban Development Law
UXB113	Measurement for Construction
UXB114	Integrated Construction
Year 2, Semester 1	
UXB210	Commercial Construction
UXB211	Building Services
UXB213	Advanced Measurement for Construction
2nd Major/Minor unit	
Year 2, Semester 2	
UXB212	Designing Structures
UXB214	Construction Estimating
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 1	
USB300	Property Development
UXH310	High-rise Construction

UXH311	Contract Administration
2nd Major/Minor unit	
Year 3, Semester 2	
SEB701	Work Integrated Learning 1
UXH312	Construction Legislation
UXH314	Modern Construction Business
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
UXH400-1	Research Project 1 - Part A
UXH411	Programming and Scheduling
2nd Major/Minor unit	
Year 4, Semester 2	
UXH400-2	Research Project 1 - Part B
UXH410	Strategic Construction Management
2nd Major/Minor unit	
2nd Major/Minor unit	

Handbook

Year	2015
QUT code	UD01
CRICOS	080479J
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	384
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	Enquiries to: Science and Engineering Faculty; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Mr Jason Gray sef.enquiry@qut.edu.au

Domestic Assumed knowledge

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

- Maths A, B or C
- English

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

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

The QUT Bachelor of Urban Development (Honours) degree with a primary major (Study Area A) in Quantity Surveying and Cost Engineering is designed to provide you with 'real-life' exposure, and the knowledge and skills to prepare you for rewarding career the Construction, Resources and associated industries. With the capacity, will and innovation to contribute to a better built environment, as a work-ready graduate, you will be able to apply sound judgement and expertise in practice within your chosen field.

Course Design

Your QUT Bachelor of Urban Development (Honours) (Quantity Surveying and Cost Engineering) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Quantity Surveying and Cost Engineering discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Quantity Surveying and Cost Engineering Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher order thinking to an advanced level.

Complementary Studies Options

Second Major:

A choice of one second major from:

Urban Development disciplines:

- Urban and Regional Planning Studies
- Property
- Accountancy
- Applied Economics and Finance

(additional second major choices are currently under development)

Minors:

A choice of two minors from the lists below:

Urban Development disciplines:

- Urban and Regional Planning Studies
- Property Development
- Property Investment and Finance
- Property Valuation

Other disciplines:

- Language Minors – University Wide Options
- [University Wide Minors](#)

Special Course Requirements

You are required to obtain a minimum of 80 days of approved quantity surveying and cost engineering industrial experience as part of your Work Integrated Learning core unit.

Professional Recognition

Graduates are eligible for membership of the Australian Institute of Quantity Surveyors (AIQS), the Royal Institution of Chartered Surveyors (RICS) and Board of Quantity Surveyors Malaysia (BQSM).

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs

Domestic Course structure Course Design

Your QUT Bachelor of Urban Development (Honours) (Quantity Surveying and Cost Engineering) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Quantity Surveying and Cost Engineering discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Bachelor of Urban Development (Honours) (Quantity Surveying and Cost Engineering)

Quantity Surveying and Cost Engineering Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher-order thinking to an advanced level.

Complementary Studies Options

Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also available.

Second Majors

A second major provides the opportunity for you to undertake significant studies in a second Urban Development discipline such as Property Economics, Urban and Regional Planning, Accountancy or Applied Economics and Finance. Second majors are also designed to provide diverse professional skills and knowledge beyond the traditional reaches of the built environment curriculum and can offer a range of study options in other fields.

Minors

Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

International Course structure

Course Design

Your QUT Bachelor of Urban Development (Honours) (Quantity Surveying and Cost Engineering) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Quantity Surveying and Cost Engineering discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Quantity Surveying and Cost Engineering Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your

knowledge, practice and higher-order thinking to an advanced level.

Complementary Studies Options

Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also available.

Second Majors

A second major provides the opportunity for you to undertake significant studies in a second Urban Development discipline such as Property Economics, Urban and Regional Planning, Accountancy or Applied Economics and Finance. Second majors are also designed to provide diverse professional skills and knowledge beyond the traditional reaches of the built environment curriculum and can offer a range of study options in other fields.

Minors

Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

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	
USB100	Understanding the Built Environment
UXB110	Residential Construction
UXB120	Introduction to Heavy Engineering Sector Technology
UXB121	Imagine Quantity Surveying and Cost Engineering
Year 1, Semester 2	
BSB113	Economics
LWS012	Urban Development Law
UXB113	Measurement for Construction
UXB114	Integrated Construction
Year 2, Semester 1	
UXB210	Commercial Construction
UXB211	Building Services
UXB213	Advanced Measurement for Construction
2nd Major/Minor unit	
Year 2, Semester 2	
UXB214	Construction Estimating

UXB220	Services and Heavy Engineering Measurement
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 1	
USB300	Property Development
UXH310	High-rise Construction
UXH311	Contract Administration
2nd Major/Minor unit	
Year 3, Semester 2	
SEB701	Work Integrated Learning 1
UXH314	Modern Construction Business
UXH321	Cost Planning and Controls
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
UXH400-1	Research Project 1 - Part A
UXH420	Risk Management in the Resources Sector
2nd Major/Minor unit	
Year 4, Semester 2	
UXH312	Construction Legislation
UXH400-2	Research Project 1 - Part B
2nd Major/Minor unit	
2nd Major/Minor unit	

Handbook

Year	2015
QUT code	UD01
CRICOS	080479J
Duration (full-time)	4 years
OP	9
Rank	81
OP Guarantee	Yes
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,000 per Study Period (48 credit points)
Total credit points	384
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	Enquiries to: Science and Engineering Faculty; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Paul Donehue 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 (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

The QUT Bachelor of Urban Development (Honours) degree with a primary major (Study Area A) in Urban and Regional Planning is designed to provide you with 'real-life' exposure and knowledge and expertise in the field to design and administer plans and policy at neighbourhood, local, regional and state levels. With the capacity and will to contribute to a better built environment, as a work-ready graduate, you will be able to apply your perceptive sensibilities and skills in practice to create sustainable natural and human environments.

Course Design

Your QUT Bachelor of Urban Development (Honours) (Urban and Regional Planning) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Urban and Regional Planning discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Urban and Regional Planning Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher order thinking to an advanced level.

Complementary Studies Options

Second Major:

A choice of one second major from:

Urban Development disciplines:

- Urban Development Construction
- Property
- Accountancy
- Applied Economics and Finance

(additional second major choices are currently under development)

Minors:

A choice of two minors from the lists below:

Urban Development disciplines:

- Residential Construction
- Administration in Construction
- Building Economics
- Property Development
- Property Investment and Finance
- Property Valuation

Other disciplines:

- Urban Design
- Language Minors – University Wide Options
- University Wide Minors

Professional Recognition

Graduates are eligible for membership of the Planning Institute of Australia (PIA)

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs

Domestic Course structure

Course Design

Your QUT Bachelor of Urban Development (Honours) (Urban and Regional Planning) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Urban and Regional Planning discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Urban and Regional Planning Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher-order thinking to an advanced level.

Complementary Studies Options

Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also

Bachelor of Urban Development (Honours) (Urban and Regional Planning)

available.

Second Majors

A second major provides the opportunity for you to undertake significant studies in a second Urban Development discipline such as Property Economics, Construction Management, Accountancy or Applied Economics and Finance. Second majors are also designed to provide diverse professional skills and knowledge beyond the traditional reaches of the built environment curriculum and can offer a range of study options in other fields.

Minors

Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

International Course structure

Course Design

Your QUT Bachelor of Urban Development (Honours) (Urban and Regional Planning) degree consists of 384 credit points (32 units) arranged as follows:

- 72 credit points (6 units) of Urban Development Core units, which includes a Work Integrated Learning unit that requires completion of workplace learning.
- 216 credit points (18 units) of Urban and Regional Planning discipline units
- 96 credit points of complementary studies comprising of either a Second Major (8 unit set) or two Minors (4 unit set each).

Urban Development Core Units

These units will engage you in understanding Urban Development from a range of disciplinary and multidisciplinary perspectives, expose you to the various outcomes available for pursuing studies in this field and introduce the fundamental basis for policy and practice. Later core units, together with the discipline specific units, will progress your learning development through experiential and enquiry based learning in collaborative environments.

Urban and Regional Planning Major Discipline Units

These units give you discipline level knowledge, skills and application competencies from introductory through intermediate, culminating with advanced graduate level units. They focus on developing your knowledge, practice and higher-order thinking to an advanced level.

Complementary Studies Options

Complementary studies may be taken as a Second Major of 96 credit points or two Minors of 48 credit points each. Experiential minors in Work Integrated Learning as well as student exchange are also available.

Second Majors

A second major provides the opportunity for you to undertake significant studies in a second Urban Development discipline such as Property Economics, Construction Management, Accountancy, Applied

Economics and Finance. Second majors are also designed to provide diverse professional skills and knowledge beyond the traditional reaches of the built environment curriculum and can offer a range of study options in other fields.

Minors

Minors will allow you undertake studies in a companion discipline. They are designed to provide you with introductory to intermediate level knowledge and skills in areas complementary to your studies. You can choose a minor from other built environment disciplines. There are also minors designed to distinguish students in the employment marketplace with complementary 'non-discipline' skills and competencies that you can choose from a range of inter- and intra-faculty disciplines.

Pathways to Further Study

The (UD01) Bachelor of Urban Development (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Masters and/or Doctoral level programs.

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	
USB100	Understanding the Built Environment
UXB130	History of the Built Environment
UXB131	Imagine Planning and Design
UXB132	Urban Analysis
Year 1, Semester 2	
BSB113	Economics
LWS012	Urban Development Law
UXB133	Urban Studies
UXB134	Land Use Planning
Year 2, Semester 1	
UXB230	Site Planning
UXB231	Planning Processes
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 2, Semester 2	
UXB232	Negotiation and Conflict Resolution
UXB233	Planning Law
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 1	
USB300	Property Development
UXB330	Urban Design
2nd Major/Minor unit	
2nd Major/Minor unit	
Year 3, Semester 2	
SEB701	Work Integrated Learning 1
UXH331	Environmental Analysis and Planning

UXB332	Transport Planning
2nd Major/Minor unit	
Year 4, Semester 1	
SEB400	Foundations of Research
UXH400-1	Research Project 1 - Part A
UXH430	Planning Theory and Ethics
UXH431	Urban Planning Practice
Year 4, Semester 2	
UXH400-2	Research Project 1 - Part B
UXH432	Community Planning
UXH433	Regional Planning
2nd Major/Minor unit	

Handbook

Year	2015
QUT code	UD10
CRICOS	080488G
Duration (full-time)	1 year
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,200 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Prof Chris Eves; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor degree in property economics or equivalent with a minimum grade point average (GPA) score of 4.5 (on a 7-point scale), completed within the last five years.

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree in property economics or equivalent with a minimum grade point average (GPA) score of 4.5 (on a 7-point scale), completed within the last five years.

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

A Property Economics (Honours) graduate will develop extensive research skills that will allow them to undertake expanded roles in the property sector in the areas of property market analysis, industry research and property trust and funds analysis. The Honours program will allow you to select a current specific property development, valuation or financial and asset management problem or issue and develop the appropriate research skills and methods to address these issues.

The advanced leadership and teamwork skills, together with expanded knowledge gained in the Honours degree will also allow the graduate to participate in a wider range of property based careers in the private and government property valuation, finance and development sectors.

Course Design

Requirements for the completion of UD10 Bachelor of Economics (Honours) are as follows:

STUDY AREA A: 96 credit points (6 units) comprising One (1) Major from the following:

- Development & Valuation
- Finance & Asset Management

Each Major is comprised of the Core units Foundations of Research and Reviewing the Field, and the choice of either the Expanded Research Strand or the Extended Coursework Strand.

Each strand comprises of coursework and a major research project supervised by QUT staff.

Career Outcomes

The additional study at the Honours level will provide additional preparation for careers in higher level career opportunities in:

- Property Development
- Property Funds Analyst
- Property Research
- Property Valuation
- Property Finance
- Asset Management

Professional Recognition

Australian Property Institute
The Valuers Registration Board of Queensland
The Royal Institution of Chartered Surveyors
Board of Valuers, Appraisers and Estate Agents, Malaysia

Pathways to Further Study

The QUT Bachelor of Science (Honours) is located at Level 8 of the Australian Qualifications Framework (AQF). Honours provides the key research pathway to postgraduate study. Completion of the BPropEc(Hons)(Dev&Val) and BPropEc(Hons)(Fin&Asset Mgt) will allow you to undertake additional research study in either a research Masters or PhD.

Domestic Course structure

You must complete 96 credit points (6 units) from one of the following study areas:

- Development & Valuation
- Finance & Asset Management

You'll need to choose between either expanded research or extended coursework for whichever study area you choose.

International Course structure

You must complete 96 credit points (6 units) from one of the following study areas:

- Development & Valuation
- Finance & Asset Management

You'll need to choose between either expanded research or extended coursework for whichever study area you choose.

Sample Structure Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Property Economics Honours Unit Options \(Expanded Research\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
SEB402	Project Proposal
Select 12cp (1 Unit) from Property Economics Honours Unit Options	
Semester 2	
SEB403	Honours Research Project
Select 12cp (1 Unit) from Property Economics Honours Unit Options	
Property Economics Honours Unit Options (Expanded Research)	
Select 24cp (2 units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
UXH430	Planning Theory and Ethics
UXH432	Community Planning
UXH433	Regional Planning

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Property Economics Honours Unit Options](#)

Bachelor of Property Economics (Honours)

(Extended Coursework)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
Select 24cp (2 Units) from Property Economics Honours Unit Options	
Semester 2	
SEB404	Honours Research Project
Select 12cp (1 Unit) from Property Economics Honours Unit Options	
Property Economics Honours Unit Options (Extended Coursework)	
Select 36cp (3 units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
SEB412	Advanced Topic 3
UXH430	Planning Theory and Ethics
UXH432	Community Planning
UXH433	Regional Planning

Select 12cp (1 Unit) from Property Economics Honours Unit Options	
Property Economics Honours Unit Options (Extended Coursework)	
Select 36cp (3 Units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
SEB412	Advanced Topic 3
UXH430	Planning Theory and Ethics
UXH432	Community Planning
UXH433	Regional Planning

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Property Economics Honours Unit Options \(Expanded Research\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
SEB402	Project Proposal
Select 12cp (1 Unit) from Property Economics Honours Unit Options	
Semester 2	
SEB403	Honours Research Project
Select 12cp (1 Unit) from Property Economics Honours Unit Options	
Property Economics Honours Unit Options (Expanded Research)	
Select 24cp (2 units) from:	
SEB410	Advanced Topic 1
SEB411	Advanced Topic 2
UXH430	Planning Theory and Ethics
UXH432	Community Planning
UXH433	Regional Planning

Semesters

- [Semester 1](#)
- [Semester 2](#)
- [Property Economics Honours Unit Options \(Extended Coursework\)](#)

Code	Title
Semester 1	
SEB400	Foundations of Research
SEB401	Reviewing the Field
Select 24cp (2 Units) from Property Economics Honours Unit Options	
Semester 2	
SEB404	Honours Research Project

Handbook

Year	2015
QUT code	BN85
CRICOS	060808G
Duration (full-time)	6 months
Duration (part-time domestic)	12 months
Campus	Gardens Point
Domestic fee (indicative)	2015: \$14,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$15,600 per Study Period (48 credit points)
Total credit points	48
Credit points full-time sem.	48
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Associate Professor Bambang Trigunaryah; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

You should have completed one of the following:

- a four-year full-time bachelor degree in a relevant discipline area
- a three-year full-time diploma and three or more years of relevant professional experience in a relevant discipline with a grade point average of 4 or more (on a 7-point scale)
- an equivalent qualification determined by the Faculty.

A curriculum vitae (CV) may also be required.

International Entry requirements

You should have completed one of the following:

- a four-year full-time bachelor degree in a relevant discipline area
- a three-year full-time diploma and three or more years of relevant professional experience in a relevant discipline with a grade point average of 4.0 or more (on a 7-point scale).

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

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.

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 Note

The course structures are divided into two major categories: Standard program and UD50 Articulation program.

All students, except those intending to advance to UD50 Masters of Urban Development (Urban and Regional Planning), must follow the standard program.

Domestic Course structure

Enrolment in units will depend on students' previous study and their intended masters course, after completing the Graduate Certificate program. All units must be selected in consultation with the course coordinator.

International Course structure

Enrolment in units will depend on students' previous study and their intended masters course, after completing the Graduate Certificate program. All units must be selected in consultation with the course coordinator.

Sample Structure

Code	Title
Full-time Structure - Year 1, Semester 1	
	Undergraduate Unit 1
	Undergraduate Unit 2
	Postgraduate Unit A
	Postgraduate Unit B
(All units to be approved by Postgraduate Coordinator prior to enrolment).	
Part-time Structure	
A part-time course structure will require completion of one (1) undergraduate level unit and one (1) postgraduate level elective unit each semester (50% of standard load as above.)	

Handbook

Year	2015
QUT code	IN17
CRICOS	086328J
Duration (full-time international)	6 months
Domestic fee (indicative)	2015: \$9,800 per study period (48 credit points)
International fee (indicative)	2015: \$12,400 per study period (48 credit points)
Total credit points	48
Course Coordinator	ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree in information technology.

Pathway: Graduate Certificate to IN20 Master of Information Technology

Students must have a completed recognised bachelor degree in information technology.

This pathway consists of IN17 Graduate Certificate in Information Technology (1 semester) leading to [IN20 Master of Information Technology](#) (3 semester)

Pathway: Graduate Certificate to IN21 Master of Information Technology

Students must have a completed recognised bachelor degree in information technology.

For the majors: *Enterprise Systems, General Studies, Networks and Security*, the pathway will be:

- IN17 Graduate Certificate in Information Technology (1 semester) leading to [IN21 Master of Information Technology](#) (2 semesters)

For the majors: *Data Science, Business Process Management, Computer Science, Human Computer Interaction and Information Management*, the pathway will be:

- IN17 Graduate Certificate in Information Technology (1 semester) leading to [IN21 Master of Information Technology](#) (3 semesters)

Students with bachelor degrees in disciplines other than information technology could consider the [QC05 University Certificate in Tertiary Preparation](#) or QUT [English for Academic Purposes](#) pathways.

Minimum English requirements

Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)	
Speaking	5.0
Writing	5.5
Reading	5.5
Listening	5.0
Overall	6.0

Successful completion of QUT's English for Academic Purposes (EAP)(Direct Stream) with 50% or better.

Course Design

The Graduate Certificate in Communication for Information Technology will provide you with core discipline studies and communication knowledge and skills.

The course structure consists of 48 credit points of units. There are two common core communications units (24cp) and two information technology unit options (24cp) from the following information technology areas: Computer Science/Data Science, Enterprise Systems, Networks, Security, or Business Process Management.

NB: If you intend to follow a major pathway into IN20/21 MIT you should select the recommended IT units for those majors on commencement of IN17.

Pathways to Further Study

The QUT Graduate Certificate in Communication for Information Technology is located at Level 8 of the Australian Qualifications Framework (AQF). Eligible graduates may articulate from the Graduate Certificate in Communication for Information Technology into the related [IN20 Master of Information Technology/ IN21 Master of Information Technology - Graduate Entry](#) course.

International Course structure

The course structure consists of 48 credit points of units. There are two common core communications units (24 credit points) and two information technology unit options (24 credit points) from the following information technology areas:

- computer science/data science
- enterprise systems
- networks
- security
- business process management.

NB: If you intend to follow a major pathway into IN20/21 MIT you should select the recommended IT units for those majors on commencement of IN17.

Sample Structure

Code	Title
Semester 1	
Core Units (24cp):	
QCD111	Communication 1
QCD211	Communication 2
PLUS select 2 Units (24cp) from the following paired unit options: (The units are grouped by Majors as offered in the Master of Information Technology. It is important you select the pairing that reflects the Major you wish to study in your Masters as these units will be credited towards your MIT). If you choose to not study a major (i.e. the No Major option), please select any 2 units from the list.	
NETWORKS	
IFN660	Programming Language Theory
IFN642	Applied Cryptography and Network Security
SECURITY	
IFN642	Applied Cryptography and Network Security
IFN660	Programming Language Theory
COMPUTER SCIENCE/DATA SCIENCE	
IFN645	Data Mining Technology and Applications
IFN660	Programming Language Theory
ENTERPRISE SYSTEMS	
IFN662	Enterprise Systems and Applications
IFN650	Business Process Analytics
BUSINESS PROCESS MANAGEMENT	
IFN650	Business Process Analytics
NO MAJOR	
Select any 2 units from the above Majors list.	

Code	Title
Semester 2	
Core Units (24cp):	
QCD111	Communication 1
QCD211	Communication 2
PLUS select 2 Units (24cp) from the following paired unit options: (The units are grouped by Majors as offered in the Master of Information Technology. It is	

Graduate Certificate in Communication for Information Technology

important you select the pairing that reflects the Major you wish to study in your Masters as these units will be credited towards your MIT). If you choose to not study a major (i.e. the No Major option), please select any 2 units from the list.

NETWORKS

IFN641 Advanced Network Management

IFN643 Computer System Security

SECURITY

IFN643 Computer System Security

IFN641 Advanced Network Management

COMPUTER SCIENCE

IFN643 Computer System Security

ENTERPRISE SYSTEMS

IFN663 Advanced Enterprise Architecture

IFN652 Business Process Management

BUSINESS PROCESS MANAGEMENT

IFN651 Lean Six Sigma

IFN652 Business Process Management

NO MAJOR

Select any 2 units from the above Majors list.

Handbook

Year	2015
QUT code	IT85
Duration (part-time)	1 year
Campus	Gardens Point
Domestic fee (indicative)	2015: \$4,250 per Study Period - Part-time (24 credit points)
Total credit points	48
Credit points part-time sem.	24
Dom. Start Months	February, July
Course Coordinator	Dr Hasmukh Morarji; ph: +67 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

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 4.0 (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

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 4.0 (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.

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

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.

Domestic Course structure

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

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.

Sample Structure Semesters

- [No Major](#)
- [Digital Environments](#)
- [Enterprise Systems](#)
- [Executive Information Practice](#)
- [Games Design](#)
- [Games Production](#)
- [Information Management](#)
- [Library and Information Studies](#)
- [Network Management](#)
- [Security](#)
- [Software Architecture](#)

Code	Title
No Major	
*Any IT postgraduate units to the total of 48 credit points	
Digital Environments	
IFN661	Mobile and Pervasive Systems
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
IFN700	Project Management
IFN690	Advanced User Centred Design

Graduate Certificate in Information Technology

Enterprise Systems	
Any 4 units from:	
IFN662	Enterprise Systems and Applications
INN374	Enterprise Software Architecture
IFN515	Fundamentals of Business Process Management
IFN700	Project Management
IFN665	Advanced Topic 1
Executive Information Practice	
INN633	Executive Information Practice
INN690	Minor Project 1
Any 2 units from:	
LCN623	Leadership Concepts, Theories and Issues
LCN624	Leading and Managing People
LCN630	Leadership, Policy and Change in Action
LCN631	Strategic Management
Games Design	
INN280	Fundamentals of Game Design
INN272	Interaction Design
Any 1 unit from:	
IFN700	Project Management
INN281	Advanced Game Design
INN600	Advanced Readings 1
INN282	Games Level Design
Games Production	
INN180	Computer Games Studies
INN181	Introduction to Games Production
Any 2 units from:	
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN500	PRINCE2 (R) Project Management
INN220	Business Analysis
INN321	Business Process Improvement
Information Management	
INN330	Information Management
INN332	Information Retrieval
INN530	Online Information Services
Any 1 unit from:	
INN122	Organisational Databases
INN255	Security
INN220	Business Analysis
IFN661	Mobile and Pervasive Systems
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN540	User Experience
Library and Information Studies	
INN690	Minor Project 1
Any 3 units from:	
INN332	Information Retrieval
INN531	Collections Management
IFN617	Managing and Organising Collections
IFN612	Emerging Technologies for Information Practice

INN530	Online Information Services
IFN615	Information Management
IFN610	Management Issues for Information Professionals
IFN600	Research Based Practice
IFN645	Data Mining Technology and Applications
IFN690	Advanced User Centred Design
INN600	Advanced Readings 1
CLN601	Cyberlearning
CLN603	Designing Spaces for Learning
CLN647	Youth, Popular Culture, and Texts
CLN650	Information-Learning Nexus
EDN611	Conducting and Evaluating Educational Research
MDN642	Digital Pedagogies
IFN661	Mobile and Pervasive Systems
IFN700	Project Management
INN347	Web 2.0 Applications
Network Management	
Any four units from:	
ENN523	Advanced Network Engineering
IFN641	Advanced Network Management
IFN665	Advanced Topic 1
ENN524	Mobile Network Engineering
IFN700	Project Management
Security	
INN255	Security
INN651	Security Technologies
Any 2 units from:	
IFN600	Research Based Practice
IFN511	Security Management
INN652	Advanced Cryptology
IFN643	Computer System Security
MGN524	Special Topic in Management 1
AYN410	Business Law and Ethics
MGN433	Managing High-Performance Organisations
MGN423	Contemporary Strategic Analysis
JSN184	Cybercrime
JSN186	Analytical Methods of Intelligence
MAN778	Applications of Discrete Mathematics
LWN139	Privacy Law
LWN125	Electronic Commerce Law
INN690	Minor Project 1
INN691	Minor Project 2
INN694-1	Project 1
INN694-2	Project 2
INN696-1	Major Project 1
INN696-2	Major Project 2
INN600	Advanced Readings 1

INN605	Advanced Research 1
INN693	Project
Software Architecture	
Any four units from:	
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN374	Enterprise Software Architecture
INN570	Internationalisation of Software
IFN700	Project Management
INN370	Software Development

Handbook

Year	2015
QUT code	PM15
CRICOS	084926C
Duration (full-time)	6 months
Campus	Gardens Point
Domestic fee (indicative)	2015: \$9,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,100 per Study Period (48 credit points)
Total credit points	48
Credit points full-time sem.	48
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Professor Jay Yang; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor degree (or higher) in engineering or built environment; or

A completed recognised bachelor honours degree (or higher) in any discipline; or

A completed recognised bachelor degree with at least six months (full-time or equivalent) professional project management work experience; or

A completed recognised bachelor degree plus successful completion of two [QUT Open CPE modules in Project Management](#).

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree (or higher) in engineering or built environment disciplines; or

A completed recognised Graduate Certificate, Graduate Diploma, Masters or Australian Honours (or higher) in any discipline; or

A completed recognised bachelor degree in any discipline with at least six months (full-time or equivalent) professional project management work experience in any discipline. Students applying on the basis of work experience must submit a detailed CV, position details and employment statements; or

A completed recognised bachelor degree in any discipline plus successful completion of two [QUT Open CPE modules in Project Management](#)*.

* Note: You must meet all admission requirements to be eligible for PM15 Graduate Certificate in Project Management. Completion of the QUT Open CPE modules alone do not guarantee entry into this course.

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

The Graduate Certificate in Project Management delivers fundamental Project Management skills to those wishing to advance their knowledge in the discipline. It is designed for, both, individuals seeking to work in project management areas and for those already working in positions requiring project management.

With this course you will gain a depth of specialised knowledge and skills to manage projects across multiple industry sectors.

Designed to offer flexible study choices, the course is available fully on-line or face to face on campus. See the Study Choices information below for more detail on how you can study this course.

Course Design

The QUT Graduate Certificate in Project Management degree is designed around a set of core project management topics that underpin the knowledge required for practice and/or further learning.

The course will provide you with advanced and specialised discipline knowledge and skills to apply appropriate solutions to project management problems. You will learn how to communicate effectively within various social, cultural and professional contexts across and within stakeholder and discipline groups.

The course structure consists of 48 credit points (4 units) of core units that can be completed in one semester of study.

Two of the units should be completed in this order:

PMN501 Project Management Essentials 1, in the first half of the semester, followed by PMN502 Project Management Essentials 2 in the second half of the semester.

Study Choices

You can study the Graduate Certificate in Project Management internally on campus at Gardens Point or externally Online. Depending on your location, you may choose to study some, or all, units Online or you may choose to attend in class at Gardens Point. When you self-enrol in a unit you must select from the list of attendance modes available that matches how you wish to study that unit. If you select the online study mode for a unit, your studies will all take place electronically, off campus. If you select to study a unit internally, you will be required to attend scheduled classes on campus.

Studying On Campus (Internally)

There are different ways you can study some project management units internally. You will be able to identify which type of internal study is offered when you self-enrol in a unit. If the unit is described as 'Internal' this typically indicates a standard delivery mode where classes will be scheduled each week for the duration of the specified teaching period. If a unit is described as Internal Block Mode, this indicates that it will be delivered in an intensive learning mode, such as whole day or weekend sessions or seminars. Please ensure you check your session dates.

Special Course Requirements

Students wishing to undertake online studies will require access to the necessary technology to facilitate this mode of study.

Pathways to Further Study

The QUT Graduate Certificate in Project Management is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates will be eligible for entry into the Master of Project Management with a reduced course duration of 1 year.

Professional Membership

Endorsed by the Australian Institute of Project Management (AIPM).

Domestic Course structure

The QUT Graduate Certificate in Project Management degree is designed around a set of core project management topics that underpin the knowledge required for practice and/or further learning.

The units will provide you with advanced and specialised discipline knowledge and skills to apply appropriate solutions to project management problems. You will learn how to communicate

Graduate Certificate in Project Management

effectively within various social, cultural and professional contexts across and within stakeholder and discipline groups.

PMN503	Systems in Project Management
PMN504	People and Projects

The course structure consists of 48 credit points (4 units) of core units that can be completed in one semester of study.

Two of the units should be completed in this order:

PMN501 Project Management Essentials 1, in the first half of the semester, followed by PMN502 Project Management Essentials 2 in the second half of the semester.

Special course requirements

Designed to offer flexible study choices, the units will be available fully on-line or face to face on campus. You may also choose blend these options. Students wishing to undertake online studies will require access to the necessary technology to facilitate this mode of study.

Pathways to further study

The QUT Graduate Certificate in Project Management is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates will be eligible for entry into the Master of Project Management with a reduced course duration of one year.

International Course

structure

Course Design

The QUT Graduate Certificate in Project Management degree is designed around a set of core project management topics that underpin the knowledge required for practice and/or further learning.

The units will provide you with advanced and specialised discipline knowledge and skills to apply appropriate solutions to project management problems. You will learn how to communicate effectively within various social, cultural and professional contexts across and within stakeholder and discipline groups.

The course structure consists of 48 credit points (4 units) of core units that can be completed in one semester of study.

Two of the units should be completed in this order:

PMN501 Project Management Essentials 1, in the first half of the semester, followed by PMN502 Project Management Essentials 2 in the second half of the semester.

Special Course Requirements

Designed to offer flexible study choices, the units will be available fully on-line or face to face on campus. You may also choose blend these options. Students wishing to undertake online studies will require access to the necessary technology to facilitate this mode of study.

Pathways to Further Study

The QUT Graduate Certificate in Project Management is located at Level 8 of the Australian Qualifications Framework (AQF). Graduates will be eligible for entry into the Master of Project Management with a reduced course duration of 1 year.

Sample Structure

Code	Title
Full-time course structure	
PMN501	Project Management Essentials 1
PMN502	Project Management Essentials 2
Core unit PMN501 is assumed knowledge for PMN502, and should be taken in the first half of the semester of study before attempting PMN502 in the second half of the semester.	

Handbook

Year	2015
QUT code	MA75
CRICOS	046041M
Duration (full-time)	1 year
Duration (part-time domestic)	2 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,700 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Credit points part-time sem.	24
Dom. Start Months	February, July, November
Course Coordinator	Dr James McGree; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

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.

Domestic 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.

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.

Sample Structure

Code	Title
Course Notes	
- Total credit points: 96	
- 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.	
- 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.	
Mathematics Units available:	
MAN101	Statistical Data Analysis 1
MAN121	Single Variable Calculus and Differential Equations
MAN122	Linear Algebra and Multivariable Calculus
MAN200	Advanced Topics in Mathematical Sciences 1
MAN201	Advanced Topics in Mathematical Sciences 2
MAN210	Probability and Stochastic Modelling 1
MAN220	Computational Mathematics 1
MAN281	Mathematics for Computer Graphics
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN313	Mathematics of Finance
MAN314	Probability and Stochastic Modelling 2
MAN315	Operations Research 2
MAN413	Differential Equations
MAN414	Applied Statistics 1
MAN420	Computational Mathematics 2
MAN422	Mathematical Modelling
MAN461	Discrete Mathematics
MAN480	Modelling and Simulation Science
ADVANCED POSTGRADUATE MATHEMATICS UNITS:	
MAN521	Applied Mathematics 3
MAN522	Computational Mathematics 3
MAN524	Statistical Inference
MAN525	Operations Research 3A
MAN533	Statistical Techniques
MAN536	Time Series Analysis 1
MAN613	Partial Differential Equations
MAN623	Financial Mathematics
MAN624	Applied Statistics 2
MAN625	Operations Research 3B
MAN672	Advanced Mathematical Modelling
MAN700	Project
MAN717	Minor Project
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN765	Bayesian Data Analysis
MAN766	Time Series Analysis 2
MAN768	Advanced Techniques in Operations Research
MAN769	Mathematics of Finance
MAN771	Computational Mathematics 4
MAN774	Perturbation Methods

Graduate Diploma in Mathematical Science

MAN775	Statistical Modelling of Financial Processes
MAN777	Mathematics of Fluid Flow
MAN778	Applications of Discrete Mathematics

Handbook

Year	2015
QUT code	PH71
CRICOS	020315D
Duration (full-time)	1 year
Duration (part-time)	2 years
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,100 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Discipline Coordinator	

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor degree in physics or equivalent qualification or other evidence of qualifications that satisfactorily demonstrate you possess the capacity to pursue the course of study.

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree (or higher award) in 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	6.5

Career Outcomes

Graduates can seek employment in hospitals, health departments, tertiary institutions and medical instrumentation companies. Depending on the field of employment, graduates may be known as a medical physicist, health physicist or bio-engineer.

Professional medical/health physicists:

- apply electronic tools and medical software, ultrasonics, radiation and computers to clinical and environmental problems
- monitor the environment to maintain acceptable standards in the workplace and the community
- apply fundamental physical research in development programs
- are responsible for calibration, care and maintenance of instruments and apparatus.

Course Design

Stage 1— Graduate Diploma (PH71) comprises assessed coursework such as advanced lectures, seminars, reading units or independent study. Full-time students will need an average of 14 hours a week of formal contact (seven hours for parttime students). Students can graduate with a Graduate Diploma in Medical Physics after satisfactory completion of Stage 1.

Stage 2— Master of Applied Science (PH80) students undertake a program of supervised research and investigation that can be completed at QUT or in a suitable external institution.

Professional Recognition

The course is accredited by the Australasian College of Physical Sciences and Engineers in Medicine.

Further Information

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

Domestic Course structure

Stage 1—Graduate Diploma (PH71) comprises assessed coursework such as advanced lectures, seminars, reading units or independent study. Full-time students will need an average of 14 hours a week of formal contact (seven hours for parttime

students). Students can graduate with a Graduate Diploma in Medical Physics after satisfactory completion of Stage 1.

Stage 2—Master of Applied Science (PH80) students undertake a program of supervised research and investigation that can be completed at QUT or in a suitable external institution.

International Course structure

Stage 1—Graduate Diploma (PH71) comprises assessed coursework such as advanced lectures, seminars, reading units or independent study. Full-time students will need an average of 14 hours a week of formal contact (seven hours for parttime students). Students can graduate with a Graduate Diploma in Medical Physics after satisfactory completion of Stage 1.

Stage 2—Master of Applied Science (PH80) students undertake a program of supervised research and investigation that can be completed at QUT or in a suitable external institution.

Sample Structure

Code	Title
Year 1, Semester 1 (February to June)	
LSN104	Advancing Anatomy and Physiology
PCN113	Radiation Physics
PCN114	Microprocessors and Instrumentation
PCN211	Physics of Medical Imaging
Year 1, Semester 2 (July to October)	
PCN112	Medical Imaging Science
PCN212	Radiotherapy
PCN214	Health and Occupational Physics
PCN218	Research Methodology and Professional Studies

Handbook

Year	2015
QUT code	SC71
CRICOS	020314E
Duration (full-time)	1 year
Duration (part-time domestic)	2 years
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,300 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Credit points part-time sem.	24
Dom. Start Months	February, July
Course Coordinator	Professor Andrew Fielding, Science and Engineering Faculty - ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

Course Update

This course has been discontinued. No more enrolments appearing in 2014.

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.

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.

Sample Structure

Code	Title
Course Notes	
	Topics in Advanced Chemistry 1
	Research Methodology
	Chemical Instrumentation
	Chemometrics
	Advanced Physical Methods in Chemistry
	Laboratory Techniques for Preparative Chemistry
	Topics in Advanced Chemistry 2

Code	Title
Course Notes	
	Readings in Natural Resource Sciences 1
	Readings in Natural Resource Sciences 2
	Advanced Topics in Natural Resource Sciences 1
	Advanced Topics in Natural Resource Sciences 2
	And units approved by the Strand Coordinator

Code	Title
Course Notes	
	Units selected from other programs, such as MA75 Graduate Diploma in Mathematical Science and MA85 Master of Mathematical Science, offered by the School of Mathematical Sciences and approved by the Mathematics coordinator.

Code	Title
Course Notes	
	Advanced Topics in Physics 1
	Advanced Topics in Physics 2
	And/or alternative unit(s) approved by the Physics Coordinator

Handbook

Year	2015
QUT code	BN87
CRICOS	006368G
Duration (full-time)	1 year
Duration (part-time)	2 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$10,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,000 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Azharul Karim; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Academic entry requirement

A completed recognised four-year full-time Bachelor Degree in a relevant engineering discipline with a minimum grade point average (GPA) score of 4.0 (on a 7-point scale).

International Entry requirements

Academic entry requirement

A completed recognised four-year full-time Bachelor Degree in a relevant engineering discipline with a minimum grade point average (GPA) score of 4.0 (on a 7-point scale); or

A completed recognised three-year full-time Bachelor Degree in a relevant engineering discipline with a minimum grade point average (GPA) score of 4.0 (on a 7-point scale) and two years full-time professional engineering work experience.*

*Students applying on the basis of work experience must submit a current curriculum vitae and employer statements detailing roles and responsibilities.

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 Structure

To graduate with a Master of Engineering Management you are required to complete 96 credit points (8 units) consisting of:

48 credit points of core engineering management postgraduate units, including a 12 credit point advanced research skills unit and 24 credit points of research based project units

and;

48 credit points of engineering management discipline units.

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

Please note: There is no early exit option available for students that enter the BN87 program from 2015 onwards.

Pathways to Further Study

The Master of Engineering Management is located at level 9 of the Australian Qualifications Framework. Graduates that meet the GPA requirements, may be eligible to apply for discipline relevant Doctoral level studies.

International Combined

Masters Packages

Students admitted to a combined masters pathway (BN87 + EN50 or BN87 + PM20) may progress to their second degree on completion of the first, and are referred to the combined package study plan for their chosen combination, available on the course websites. Separate awards are granted for each degree completed.

Domestic Course structure

Course Structure

To graduate with a Master of Engineering Management you are required to complete 96 credit points (8 units) consisting of:

- 48 credit points of core engineering management postgraduate units, including a 12 credit point advanced research skills unit and 24 credit points of research based project units
- 48 credit points of engineering management discipline units.

Early Exit Options

Please note: There is no early exit option available for students that enter the BN87 program from 2015 onwards.

International Course structure

Course Structure

To graduate with a Master of Engineering Management you are required to complete 96 credit points (8 units) consisting of:

- 48 credit points of core engineering management postgraduate units, including a 12 credit point advanced research skills unit and 24 credit points of research based project units
- 48 credit points of engineering management discipline units

Early Exit Options

Please note: There is no early exit option available for students that enter the BN87 program from 2015 onwards.

Combined masters packages for international students

If you are admitted to either of:

- Master of Engineering Management and Master of Engineering package
- Master of Engineering Management and Master of Project Management package

you can progress to the second degree on completion of the first.

You will receive an award for each degree completed.

Refer to the combined package course structure of the relevant second year degree for further course details.

International Student Entry

You must maintain an enrolment program that will allow you to complete your course within the specified timeframe of your electronic Confirmation of Enrolment (eCoE)

Sample Structure

Code	Title
Year 1, Semester 1	
ENN510	Engineering

Master of Engineering Management

	Knowledge Management
ENN515	Total Quality Management
ENN541	Research Methods for Engineers
ENN590-1	Project 1
Year 1, Semester 2	
BEN610	Project Management Principles
ENN590-2	Project 2
ENN530	Asset and Facility Management
ENN570	Enterprise Resource Planning

Combined Masters Package: Master of Engineering Management (BN87) plus Master of Engineering (EN50)

If you are admitted to this pathway, once you successfully complete your Master of Engineering Management (BN87) you may progress to the Master of Engineering (EN50). **You will receive 24 credit points (2 units) of advanced standing in EN50** if you have successfully completed *ENN541 Research Methods for Engineers* and *BEN610 Project Management Principles*. Please follow the study plan for your combined package, and refer to the course site for further information regarding your second degree.

Combined Masters Package: Master of Engineering Management (BN87) plus Master of Project Management (PM20)

If you are admitted to this pathway, once you successfully complete your Master of Engineering Management (BN87) you may progress to the Master of Project Management (PM20). **You will receive 48 credit points (1 semester) of advanced standing in PM20** if you have successfully completed the following units in BN87: *ENN541 Research Methods for Engineers*; *ENN591-1 Project 1*; *ENN591-2 Project 2*; *ENN510 Engineering Knowledge Management*; *ENN530 Asset and Facility Management*; *ENN570 Enterprise Resource Planning and BEN610 Project Management Principles*. Please follow the study plan for your combined package, and refer to the course site for further information regarding your second degree.

Semesters

- [BN87 Course Structure - Feb Entry](#)
- [Master of Engineering \(EN50\) Combined Masters Study Plan](#)
- [Master of Project Management \(PM20\) Combined Masters Study Plan](#)

Code	Title
BN87 Course Structure - Feb Entry	
Year 1, Semester 1	
ENN510	Engineering Knowledge Management
ENN515	Total Quality Management
ENN541	Research Methods for Engineers
ENN590-1	Project 1
Year 1, Semester 2	
BEN610	Project Management Principles
ENN530	Asset and Facility Management
ENN570	Enterprise Resource Planning
ENN590-2	Project 2
Year 2, proceed to either EN50 or PM20 course structure.	
Master of Engineering (EN50) Combined Masters	

Study Plan	
MECHANICAL ENGINEERING MAJOR	
Year 2, Semester 1	
ENN591-1	Project 1
ENN531	Advanced Materials and Engineering Applications
ENN533	Advanced Engineering Design and Maintenance
Year 2, Semester 2	
ENN591-2	Project 2
ENN542	Statistical and Optimisation Methods for Engineers
ENN552	Solar Thermal Systems - Heat and Power
NETWORKING AND COMMUNICATIONS MAJOR	
Year 2, Semester 1	
ENN522	Advanced Communication Systems
ENN523	Advanced Network Engineering
ENN591-1	Project 1
Year 2, Semester 2	
ENN524	Mobile Network Engineering
ENN542	Statistical and Optimisation Methods for Engineers
ENN591-2	Project 2
GENERAL (NO MAJOR)	
Year 2, Semester 1	
ENN591-1	Project 1
Select Optional unit from EN50 elective pool or EN50 discipline unit	
Select unit from EN50 discipline units	
Year 2, Semester 2	
ENN542	Statistical and Optimisation Methods for Engineers
ENN591-2	Project 2
Select unit from EN50 discipline units	
Master of Project Management (PM20) Combined Masters Study Plan	
Year 2, Semester 1	
PMN503	Systems in Project Management
PMN601	Projects and Performance
PMN602	Organisations and Projects
PMN604	Strategy and Projects
Year 2, Semester 2	
PMN605	Strategic Project Procurement
PMN606	Project Investigation 2
PMN607	Strategic Risk Management
PMN608	Managing the Project

Handbook

Year	2015
QUT code	BN88
CRICOS	060807G
Duration (full-time)	1 year
Duration (part-time)	2 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$10,300 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,800 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Tim Rose; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

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.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

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.

Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

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, UD50 - notwithstanding advanced standing applied for common units, will be required to complete a minimum of 60cp of units to be determined in consultation with the nominated Course Leader, to achieve the second Masters.

Sample Structure

Code	Title
Year 1, Semester 1	
BEN610	Project Management Principles
UDN572	Infrastructure Planning and Management
UDN574	Water Resource and Waste Management
AMN435	Communication, Negotiation and Leadership
Year 1, Semester 2	
BEN710	Sustainable Practice in Built Environment and Engineering
BEN910	Integrated Project
ENN530	Asset and Facility Management
UDN576	Transportation Infrastructure

Handbook

Year	2015
QUT code	BN89
CRICOS	060815G
Duration (full-time)	1 year
Duration (part-time)	2 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$10,600 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,300 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Professor Jay Yang; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

A completed recognised four-year full-time Bachelor Degree in a relevant engineering discipline with a minimum grade point average of 4.0 (on a 7-point scale) in that study, or a qualification deemed equivalent by Faculty.

International Entry requirements

A completed recognised four-year full-time Bachelor Degree in a relevant engineering discipline with a minimum grade point average of 4.0 (on a 7-point scale) in that study, or a qualification deemed equivalent by Faculty.

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

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, UD50 - notwithstanding advanced standing applied for common units, will be required to complete a minimum of 60cp of units to be determined in consultation with the nominated Course Leader, to achieve the second Masters.

Sample Structure

Code	Title
Year 1, Semester 1	
BEN610	Project Management Principles
UDN590	Project Scope and Risk Management
UDN592	Resource, Schedule and Performance Management
AMN435	Communication, Negotiation and Leadership
Year 1, Semester 2	
BEN710	Sustainable Practice in Built Environment and Engineering
OR	
ENN530	Asset and Facility Management
BEN910	Integrated Project
UDN594	Procurement and Delivery Strategies
UDN596	Human Resource and Organisational Culture

Handbook

Year	2015
QUT code	BX20
Duration (part-time domestic)	4 years
Campus	University of Queensland, Gardens Point
Domestic fee (indicative)	\$3691 AUD per unit
Total credit points	96
Start months	Entry into this program is available throughout the year. For further details, contact sef.enquiry@qut.edu.au
Course Coordinator	Professor Ted Steinberg and Dr Martin Castillo; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

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.

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.

To obtain a Masters qualification, students must complete eight units: five core units and three electives. A minimum of three (3) units must be taken at

QUT. There is an option for students to exit with a Graduate Certificate award after completion of four units (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 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.

Early Exit Option

An early exit with BX21 - Graduate Certificate in Engineering (Power Generation) is available.

Further Information

Please visit [here](#) to find out how to apply and for further information

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 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

Master of Engineering (Power Generation)

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

Code	Title
Core units (QUT)	
EPG001	Introduction To Power Plant
EPG005	Project Delivery
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.	
If you wish to undertake 24cp of this 60cp at QUT, please consult the faculty.	
Unit electives (QUT)	
EPG006	Applied Thermodynamics
EPG011	Industrial Electrical Power Distribution
EPG015	Industrial Electrical Power Systems

Handbook

Year	2015
QUT code	BX30
CRICOS	External Study Only
Duration (part-time)	4 years
Domestic fee (indicative)	\$3,196 AUD per unit
International fee (indicative)	\$3,196 AUD per unit
Total credit points	96
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Martin Murray and Mr Mike Garrett; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Academic entry requirement

A completed recognised 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 with a minimum grade point average (GPA) of 4.0 (on QUT's 7 point scale).

Note

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.

International Entry requirements

Academic entry requirement

A completed recognised 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 with a minimum grade point average (GPA) of 4.0 (on QUT's 7 point scale).

Note

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.

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

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.

Course Structure

To graduate with a Master of Engineering (Railway Infrastructure) you are required to complete 96 credit points (8 units) consisting of:

96 credit points of core engineering railway infrastructure discipline units, including a 12 credit point advanced research skills unit and a 12 credit point research-based project unit.

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

Code	Title
Semester 1 entry	
UDN501	Rail and Related Track Structures
UDN500	Ballast, Sleepers and Fasteners
UDN503	Track Geometry and Train Interaction
UDN502	Track Stability, Design and Formation
UDN505	Assets, Environment and Safety
UDN504	Track Construction, Civil Structures
ENZ541	Research Methods for Engineers
BEZ910	Integrated Project
Semester 2 entry	
UDN500	Ballast, Sleepers and Fasteners
UDN501	Rail and Related Track Structures
UDN502	Track Stability, Design and Formation
UDN503	Track Geometry and Train Interaction
UDN504	Track Construction, Civil Structures
UDN505	Assets, Environment and Safety
ENZ541	Research Methods for Engineers
BEZ910	Integrated Project

Handbook

Year	2015
QUT code	EN50
CRICOS	060811A
Duration (full-time)	1 year
Duration (part-time domestic)	2 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,300 per Study Period (48 credit points)
Total credit points	96
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Dhammika Jayalath; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Dr Jacob Coetzee (Networking & Communications), Dr Wijitha Senadeera (Mechanical) 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Academic entry requirement

A completed recognised four year full-time bachelor degree in an electrical or mechanical engineering or 'relevant area' with a minimum grade point average (GPA) of 4.0 (on QUT's 7-point scale).

The following areas would meet the 'relevant area' requirement:

- Aerospace
- Aircraft Maintenance
- Aviation, Automotive
- Biomedical
- Chemical and Materials
- Chemical and Metallurgical
- Communication
- Computer
- Electrical
- Electronic
- Electronic and Biomedical
- Energy
- Industrial
- Information and Communications Technology
- Instrumentation and Control
- Manufacturing
- Marine
- Maritime
- Materials
- Mechanical
- Mechatronic
- Medical
- Microelectronic
- Mining
- Naval Architecture
- Ocean
- Photonics
- Photovoltaic and Solar Energy
- Power
- Process
- Product Design
- Renewable Energy
- Robotic Software
- Telecommunications
- Tool making
- Wireless

- Maritime
- Materials
- Mechanical
- Mechatronic
- Medical
- Microelectronic
- Mining
- Naval Architecture
- Ocean
- Photonics
- Photovoltaic and Solar Energy
- Power
- Process
- Product Design
- Renewable Energy
- Robotic Software
- Telecommunications
- Tool making
- Wireless

The following areas would meet the 'relevant area' requirement:

- Aerospace
- Aircraft Maintenance
- Aviation, Automotive
- Biomedical
- Chemical and Materials
- Chemical and Metallurgical
- Communication
- Computer
- Electrical
- Electronic
- Electronic and Biomedical
- Energy
- Industrial
- Information and Communications Technology
- Instrumentation and Control
- Manufacturing
- Marine
- Maritime
- Materials
- Mechanical
- Mechatronic
- Medical
- Microelectronic
- Mining
- Naval Architecture
- Ocean
- Photonics
- Photovoltaic and Solar Energy
- Power
- Process
- Product Design
- Renewable Energy
- Robotic Software
- Telecommunications
- Tool making
- Wireless

International Entry requirements

Academic entry requirement

A completed recognised four year full-time bachelor degree in an electrical or mechanical engineering or 'relevant area' with a minimum grade point average (GPA) of 4.0 (on QUT's 7-point scale); or

A completed recognised three year full-time bachelor degree in an electrical or mechanical engineering area or 'relevant area' with a minimum grade point average (GPA) score of 4.0 (on QUT's 7-point scale) and two years full time professional work experience in electrical or mechanical engineering.*

*Students applying on the basis of work experience must submit a current curriculum vitae and employer statements detailing roles and responsibilities.

The following areas would meet the 'relevant area' requirement:

- Aerospace
- Aircraft Maintenance
- Aviation, Automotive
- Biomedical
- Chemical and Materials
- Chemical and Metallurgical
- Communication
- Computer
- Electrical
- Electronic
- Electronic and Biomedical
- Energy
- Industrial
- Information and Communications Technology
- Instrumentation and Control
- Manufacturing
- Marine

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 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

Master of Engineering

claim Master of Engineering, i.e. no specialisation (Students fulfilling the specialisation requirement may choose not to have a specialisation in the award title)

*Specialisation options include:
- Mechanical Engineering
- Networking & Communications

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:

- **Mechanical Engineering:** students are assumed to be proficient in the general areas of mechanical engineering, metallurgy, materials or relevant disciplines.
- **Networking & Communications:** students are assumed to be proficient in the general area of electrical, electronics, communications or relevant disciplines.

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).

Pathways to Further Study

The Masters of Engineering is located at level 9 of the Australian Qualifications Framework. Graduates that meet the GPA requirements, may be eligible to apply for discipline relevant Doctoral level studies.

International Combined Masters Packages

Students admitted to a combined masters pathway (EN50 + PM20 or BN87 + EN50) may progress to their second degree on completion of the first, and are referred to the combined package study plan for their chosen combination, available on the course websites. Separate awards are granted for each degree completed.

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.

Early Exit Options

Please note: There is no early exit option available for students that enter the EN50 program from 2015 onwards.

International Course structure

Combined masters packages for international students

If you are admitted to either of:

- Master of Engineering and Master of Project Management package
- Master of Engineering Management and Master of Engineering package

you can progress to the second degree on completion of the first.

You will receive an award for each degree completed.

Refer to the combined package course structure of the relevant second year degree for unit details.

Sample Structure

If you are admitted to this pathway, once you successfully complete your Master of Engineering (EN50) you may progress to the Master of Project Management (PM20). **You will receive 48 credit points (1 semester) of advanced standing in PM20** if you have successfully completed the following units

in EN50: *ENN541 Research Methods for Engineers; ENN590-1 Project 1; ENN590-2 Project 2; ENN541 Research Methods for Engineers; ENN542 Statistical and Optimisation Methods for Engineers; and BEN610 Project Management Principles.* Please follow the study plan for your combined package, and refer to the course site for further information regarding your second degree.

Code	Title
EN50 Course Structure - Feb Entry	
MECHANICAL ENGINEERING MAJOR	
Year 1, Semester 1	
ENN531	Advanced Materials and Engineering Applications
ENN533	Advanced Engineering Design and Maintenance
ENN541	Research Methods for Engineers
ENN590-1	Project 1
Year 1, Semester 2	
BEN610	Project Management Principles
(BEN610 must be selected from the Postgraduate Engineering Unit Options list.)	
ENN542	Statistical and Optimisation Methods for Engineers
ENN552	Solar Thermal Systems - Heat and Power
ENN590-2	Project 2
NETWORKING AND COMMUNICATION MAJOR	
Year 1, Semester 1	
ENN522	Advanced Communication Systems
ENN523	Advanced Network Engineering
ENN541	Research Methods for Engineers
ENN590-1	Project 1
Year 1, Semester 2	
BEN610	Project Management Principles
(BEN610 must be selected from the Postgraduate Engineering Unit Options list.)	
ENN524	Mobile Network Engineering
ENN542	Statistical and Optimisation Methods for Engineers
ENN590-2	Project 2
GENERAL (NO MAJOR)	
Year 1, Semester 1	
BEN610	Project Management Principles
(BEN610 must be selected from the Postgraduate Engineering and Elective Unit Options list.)	
ENN541	Research Methods for Engineers
ENN590-1	Project 1
Postgraduate Engineering Unit Option	
Year 1, Semester 2	
ENN542	Statistical and Optimisation Methods for Engineers
ENN590-2	Project 2
Postgraduate Engineering Unit Option	
Postgraduate Engineering Unit Option	
Year 2, proceed to PM20 course structure below.	
Master of Project Management (PM20) Combined	

Masters Study Plan

Year 2, Semester 1	
PMN503	Systems in Project Management
PMN601	Projects and Performance
PMN602	Organisations and Projects
PMN604	Strategy and Projects
Year 2, Semester 2	
PMN605	Strategic Project Procurement
PMN606	Project Investigation 2
PMN607	Strategic Risk Management
PMN608	Managing the Project

In this list

- [CORE UNITS](#)
- [OPTIONAL UNITS](#)
- [Mechanical Engineering Major](#)
- [Networking and Communications Major](#)
- [Transport Major \(discontinued semester 2, 2013, continuing students only\)](#)
- [Sustainable Energy Major \(discontinued semester 2, 2013, continuing students only\)](#)
- [Electrical Engineering Major \(discontinued end 2012, continuing students only\)](#)
- [Elective Pool](#)

CORE UNITS

Code	Title
ENN541	Research Methods for Engineers
ENN542	Statistical and Optimisation Methods for Engineers
ENN590-1	Project 1
ENN590-2	Project 2

OPTIONAL UNITS

Code	Title
- Select 48cp of units offered in EN50	
- 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.	

Mechanical Engineering Major

Code	Title
ENN531	Advanced Materials and Engineering Applications
ENN533	Advanced Engineering Design and Maintenance
ENN552	Solar Thermal Systems - Heat and Power
In addition, select one unit from the Optional Units offered in EN50	

Networking and Communications Major

Code	Title
ENN522	Advanced Communication Systems
ENN523	Advanced Network Engineering
ENN524	Mobile Network Engineering
In addition, select one unit from the Optional Units offered in EN50	

Master of Engineering

Transport Major (discontinued semester 2, 2013, continuing students only)

Code	Title
ENN576	Transport Planning and Strategic Modelling
ENN579	Advanced Traffic and Transit Operations
ENN589	Intelligent Transport Systems

In addition, select one unit from the Optional Units offered in EN50

Sustainable Energy Major (discontinued semester 2, 2013, continuing students only)

Code	Title
ENN550	Energy Systems Fundamentals
ENN551	Renewable Energy Technologies, Energy Storage and Electricity Distribution Systems
ENN552	Solar Thermal Systems - Heat and Power
ENN553	Energy Optimised Buildings and Communities

Electrical Engineering Major (discontinued end 2012, continuing students only)

Code	Title
ENN522	Advanced Communication Systems
ENN523	Advanced Network Engineering
ENN524	Mobile Network Engineering

In addition, select one unit from the Optional Units offered in EN50

(Please note: ENN524 replaced ENN580 from Sem 2 2013.)

Elective Pool

Code	Title
AMN435	Communication, Negotiation and Leadership
BEN610	Project Management Principles
BEN710	Sustainable Practice in Built Environment and Engineering

Handbook

Year	2015
QUT code	EN50
CRICOS	060811A
Duration (full-time)	1 year
Duration (part-time domestic)	2 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,300 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Dhammika Jayalath; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

A completed recognised four-year full-time bachelor degree in a relevant engineering discipline with a minimum grade point average of 5.0 (on a 7-point scale) in that study, or a qualification deemed equivalent by Faculty.

International Entry requirements

A completed recognised four-year full-time bachelor degree in a relevant engineering discipline with a minimum grade point average of 5.0 (on a 7-point scale) in that study, or a qualification deemed equivalent by Faculty.

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

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:

Sample Structure

Code	Title
Year 1, Semester 1	
BEN610	Project Management Principles
ENN520	Advanced Signal Processing and Systems
ENN540	Engineering Optimisation
AMN435	Communication, Negotiation and Leadership
Year 1, Semester 2	
BEN710	Sustainable Practice in Built Environment and Engineering
BEN910	Integrated Project
ENN560	System Design
ENN580	Automated Control Systems

Handbook

Year	2015
QUT code	IN20
CRICOS	083059E
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,700 per Study Period (48 credit points)
Total credit points	192
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Hasmukh Morarji; Tel: 07 3138 8822; Email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor degree in any discipline with a minimum grade point average (GPA) score of 4.0 (on QUT's 7 point scale).

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree in any discipline with a minimum grade point average (GPA) score of 4.0 (on QUT's 7 point scale).

Applicants with a completed recognised *bachelor degree in information technology* with a minimum grade point average (GPA) score of 4.0 (on QUT's 7 point scale) may be eligible for entry into [IN21 Master of Information Technology \(Graduate Entry\)](#).

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

Graduates of the Master of IT degree will have the specialist knowledge and skills required for senior IT-related professional positions (both technical and managerial). The range of majors offered within the degree opens opportunities for students across the IT sector.

Students who graduate from this degree will have the ability to demonstrate advanced knowledge, based on research practices, in at least one IT discipline. They will undertake a significant research-based project that allows them to constructively apply the analytical skills they develop within an IT problem domain. The course will provide students with the ability to formulate best practice IT strategies and solutions and during this process create new IT discipline knowledge.

The degree aims to prepare students for work in a specialist IT area through a program of study that balances theoretical content, project-based experiences and industry-oriented perspectives.

Core Units

Students must complete core units in Research Based Practice, Project Management and a major Project or 2 small Projects on the approval of their Course Coordinator.

Majors

Students may select a major of 48 credit points from the following disciplines;

* Data Science

The data science major provides you with the knowledge and skills to extract information from large, complex and disparate data sets, using leading edge algorithms and tools.

* Enterprise Systems

Enterprise systems are engineered information systems that consist of applications and associated

information, forming the fundamental structure of organisational processes in most large organisations. Enterprise systems provide comprehensive administrative systems and help to automate and streamline business processes.

* Security

The Security major provides you with the skills and knowledge appropriate for a information security professional. You will develop skills in risk management security policies and be aware of the technical security mechanisms and issues.

* Computer Science

The computer science major extends your understanding of computer programming beyond being a mere user of programming language to an appreciation of their design and implementation.

* Business Process Management

The Business Process Management Major will provide graduates with complementary skills and knowledge to create and align information systems to effectively support business and enable business strategy.

* Networks

The Networks major provides you with the practical skills and theoretical knowledge required by a network administrator. You will gain experience with designing, implementing and maintaining network systems for a wide range of organisations.

* Human Computer Interaction

The HCI major develops the advanced knowledge & skills in human-centred design activities involving emerging technologies in order to create new forms of human-computer interaction.

* Information Management

The Information Management major provides you with the skills and knowledge to find employment in the information management industry. You will gain awareness of the activities in which information management professionals are engaged, in various organisational contexts.

* No Major

Students may select any 4 Advanced level units

Masters Strand Options

Students must complete 72 credit points from the Transition/Advanced Unit Options

Course Completion Rules

Students should meet the following requirements before they are able to complete the Masters program:

For students with an undergraduate degree in an IT-related field wishing to complete the 2 year MIT:

- Students are required to complete 192 credit points of units.
- Students are required to complete the specified core units.
- 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 72 credit points of electives from the list of approved elective units provided.

Entry Requirements

A completed recognised Level 7 Bachelor Degree in any discipline with a minimum GPA of 4 (on a 7 point scale).

IELTS overall band score of 6.5 with no sub-band below 6.0, or equivalent.

Students who have completed a recognised Level 7 Bachelor Degree in the field of Information Technology and are eligible to enter IN21 (graduate entry) MUST indicate 2 year entry option at point of application.

Sample Structure

Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)

Code	Title
Year 1, Semester 1	
If you are an IT discipline graduate, please see your Course Coordinator for additional options	
IFN500	Design Thinking for IT
IFN501	Programming Fundamentals
IFN600	Research Based Practice
Transition Unit Choice	
Year 1, Semester 2	
IFN502	IT in Context
IFN503	Fundamentals of Computer Systems
IFN700	Project Management
IFN700 involves planning for your final project (IFN701 & IFN702)	
Transition Major Choice	
Year 2, Semester 1	
IFN701	Project 1
Major Core Unit	
Advanced Master Unit Option List/Major Core 2	
Year 2, Semester 2	
IFN702	Project 2
Major Core Unit	
Advanced Master Unit Option List (if undertaking 'No Major' option) OR / Major Option 2	

Handbook

Year	2015
QUT code	IN21
CRICOS	083059E
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,700 per Study Period (48 credit points)
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 Hasmukh Morarji; Tel: 07 3138 8822; Email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor degree in information technology with a minimum grade point average (GPA) score of 4.0 (on QUT's 7 point scale).

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree in information technology with a minimum grade point average (GPA) score of 4.0 (on QUT's 7 point scale).

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

Entry Requirements

A completed recognised Bachelor Degree in the discipline of Information Technology with a minimum GPA of 4 (on a 7 point scale).

IELTS overall band score of 6.5 with no sub-band below 6.0, or equivalent.

Course Overview

Graduates of the Master of IT degree will have the specialist knowledge and skills required for senior IT-related professional positions (both technical and managerial). The range of majors offered within the degree opens opportunities for students across the IT sector.

Students who graduate from this degree will have the ability to demonstrate advanced knowledge, based on research practices, in at least one IT discipline. They will undertake a significant research-based project that allows them to constructively apply the analytical skills they develop within an IT problem domain. The course will provide students with the ability to formulate best practice IT strategies and solutions and during this process create new IT discipline knowledge.

The degree aims to prepare students for work in a specialist IT area through a program of study that balances theoretical content, project-based experiences and industry-oriented perspectives.

Core Units

Students must complete core units in Research Based Practice, Project Management and a major Project or 2 small Projects on the approval of their Course Coordinator.

Majors

Students may select a major of 48 credit points from the following disciplines;

- * Enterprise Systems
- * Security
- * Computer Science
- * Data Science
- * Business Process Management
- * Networks

- * Human Computer Interaction
- * Information Management
- * No Major

See Major Structure Lists for overviews

Masters Strand Options

Students must complete 24 credit points of Advanced Unit Options from the Options Strand

Course Completion Rules

Students should meet the following requirements before they are able to complete the IN21 program:

- Students are required to complete 144 credit points of units.
- Students are required to complete the specified core units.
- 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 two units of electives from the list of approved elective units provided.

Sample Structure Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)

Code	Title
Year 1, Semester 1	
Major Core Unit	
Major Core Unit	
IFN600	Research Based Practice
Elective	
Year 1, Semester 2	
Major Option	
IFN700	Project Management
IFN701	Project 1
Year 2, Semester 1	
Elective	
Major Option	
IFN702	Project 2

Handbook

Year	2015
QUT code	IN22
CRICOS	083058F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,700 per Study Period (48 credit points)
Total credit points	192
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Kate Davis; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au

Domestic Entry requirements

A completed recognised Bachelor Degree in any discipline with a minimum GPA of 4 (on a 7 point scale).

International Entry requirements

A completed recognised Bachelor Degree in any discipline with a minimum GPA of 4 (on a 7 point scale).

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 degree prepares you for entry into the dynamic and exiting world of the information industry. It has been designed to provide a rich and stimulating learning environment that helps you to develop the skills, knowledge and attitudes needed by contemporary information professionals. You will acquire the knowledge and expertise required to design, plan, develop, manage and evaluate information services to meet the information needs of clients. A hands-on and real world based curriculum gives you the opportunity to explore a wide range of areas within the information field and gain deep understanding within your chosen speciality such as information management or library and information practice.

You will have the opportunity to interact with peers, lecturers and the information sector through social technologies and immersive learning environments. Designed to suit your busy lifestyle the degree can be taken online or face-to-face or a mix of both – the choice is yours. This course will position you for a challenging and rewarding career in today's information-rich and technology-driven age.

Entry Requirements

Domestic students:

A completed recognised Level 7 Bachelor Degree in any discipline with a minimum GPA of 4 (on a 7 point scale).

International students:

A completed recognised Level 7 Bachelor Degree in any discipline with a minimum GPA of 4 (on a 7 point scale).

IELTS overall band score of 6.5 with no sub-band below 6.0, or equivalent.

Course Completion Rules

Students should meet the following requirements before they are able to complete the IN22 program:

- Students are required to complete 192 credit points of units.
- Students are required to complete 60cp of core units comprising a research methods (12cp) unit and 48cp of research project work;
- Students are required to complete 96cp major comprising 8, 12cp units; and
- Students are required to complete 36cp of elective units including suitable units from the MBPM and the MIT

Why Study Information Science ?

Through this degree you will develop a broad understanding of the information science discipline with strong skills in a major selected from Information Management, or Library and Information Practice. The degree will position you to become a professional in a rapidly changing, technology driven and information rich world, having the communication, interpersonal skills and teamwork skills needed to work effectively in a global environment.

Professional Membership

Graduate eligible for membership of the Australian Library and Information Association (ALIA)

Flexible Delivery

This degree is designed to suit your busy lifestyle. Classes run in the evenings and many of the core units can be taken online, face-to-face or a mix of both - the choice is yours.

Domestic Course structure

This degree prepares you for entry into the dynamic and exiting world of the information industry. It has been designed to provide a rich and stimulating learning environment that helps you to develop the skills, knowledge and attitudes needed by contemporary information professionals. You will acquire the knowledge and expertise required to design, plan, develop, manage and evaluate information services to meet the information needs of clients. A hands-on and real world based curriculum gives you the opportunity to explore a wide range of areas within the information field and gain deep understanding within your chosen speciality such as information management or library and information practice.

International Course structure

This degree prepares you for entry into the dynamic and exiting world of the information industry. It has been designed to provide a rich and stimulating learning environment that helps you to develop the skills, knowledge and attitudes needed by contemporary information professionals. You will acquire the knowledge and expertise required to design, plan, develop, manage and evaluate information services to meet the information needs of clients. A hands-on and real world based curriculum gives you the opportunity to explore a wide range of areas within the information field and gain deep understanding within your chosen speciality such as information management or library and information practice.

Handbook

Year	2015
QUT code	IN22
CRICOS	083058F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,700 per Study Period (48 credit points)
Total credit points	192
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Kate Davis; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Kate Davis

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor degree in any discipline with a minimum grade point average (GPA) score of 4.0 (on QUT's 7 point scale).

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree in any discipline with a minimum grade point average (GPA) score of 4.0 (on QUT's 7 point scale).

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 will position you for a challenging and rewarding career in the dynamic information professions. It has been designed to provide a dynamic, rich and stimulating learning experience and will allow you develop the skills, knowledge and attitudes needed by contemporary information professionals.

You will develop skills and knowledge related to managing information in a variety of organisational contexts. You will explore core activities including

- 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.

You will also develop the communication, interpersonal skills and teamwork skills needed to work effectively in a global environment.

A hands-on, real world based curriculum gives you the opportunity to explore the breadth of the information professions and gain in depth knowledge of the discipline of information management.

Flexible Learning

This degree is designed to suit your busy lifestyle. Classes run in the evenings and many of the core units can be taken online, face-to-face or a mix of both - the choice is yours.

Why choose this course?

Are you interested in the interrelationships between people, information and technology? In this course, you will explore the interrelationships between information, technology and people and develop specialist skills and knowledge that will equip you for a variety of roles in the information professions.

Our innovative, flexible approaches to teaching and learning allow you to balance study with your other commitments.

Our dynamic curriculum provides a launching pad for exciting careers in the information professions.

Real World Learning

The degree aims to prepare students for work as information professional through a program of study that balances theoretical content, project based experiences and industry orientated perspectives.

During your studies, you will:

- Undertake authentic learning and assessment activities that set the key learning activities within information centres or interacting directly with industry practitioners.
- Hear from invited speakers who present their own employment situation as an example of the topic or theme covered in the class.
- Explore real world or research inspired problems within units.
- Undertake industry based research projects, undertaken with both an industry supervisor and an academic supervisor.
- Participate in the QUT Career Mentoring Scheme where students are partnered with a current industry practitioner for 6 months.

Career Outcomes

As a graduate of this course, you will be ready to take on a career as a information technology manager, database manager, web content manager, information architect, cataloguer, knowledge manager, intranet manager, records manager, policy officer, research analyst, information services manager, document manager, metadata analyst, or community information officer

Research Pathways

This Masters degree provides a pathway to a research degree (Research Masters, Professional Doctorate or PhD). Students who successfully complete IFN600 Research Based Practice and a 48 credit point research project are encouraged to apply for enrolment in a doctoral program. IN22 provides direct pathways for entry to a PhD program as well as to the Faculty's Professional Doctorate, Doctor of Information Technology.

Sample Structure Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)

Code	Title
Year 1, Semester 1	
IFN500	Design Thinking for IT
OR	
IFN502	IT in Context
IFN610	Management Issues for Information Professionals
IFN611	Information Retrieval
IFN612	Emerging Technologies for Information Practice
Year 1, Semester 2	
IFN615	Information Management
IFN616	Online Information Services
IFN617	Managing and Organising Collections
IFN700	Project Management
Year 2, Semester 1	
IFN600	Research Based Practice
IFN701	Project 1
Select 1 unit from the Information Science Options List	

Master of Information Science (Information Management)

Year 2, Semester 2	
IFN702	Project 2
Select 1 unit from the Information Science Options List	
Select 1 unit from the Information Science Options List	

Semesters

- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)

Code	Title
Year 1, Semester 2	
IFN615	Information Management
IFN616	Online Information Services
IFN617	Managing and Organising Collections
IFN700	Project Management
Year 2, Semester 1	
IFN500	Design Thinking for IT
OR	
IFN502	IT in Context
IFN610	Management Issues for Information Professionals
IFN611	Information Retrieval
IFN612	Emerging Technologies for Information Practice
Year 2, Semester 2	
IFN600	Research Based Practice
IFN701	Project 1
Select 1 unit from the Information Science Options List	
Year 3, Semester 1	
IFN702	Project 2
Select 1 unit from the Information Science Options List	
Select 1 unit from the Information Science Options List	

Handbook

Year	2015
QUT code	IN22
CRICOS	083058F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,700 per Study Period (48 credit points)
Total credit points	192
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Kate Davis; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor degree in any discipline with a minimum grade point average (GPA) score of 4.0 (on QUT's 7 point scale).

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree in any discipline with a minimum grade point average (GPA) score of 4.0 (on QUT's 7 point scale).

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

Librarians empower people by connecting them with information. Libraries provide access to information and technology, as well as programs and services that support business, government and education. They support individuals' lifelong learning and leisure pursuits and assist people to develop literacies.

This degree will prepare you for a rewarding career as a librarian. It has been designed to provide a dynamic, rich and stimulating learning experience that helps you to develop the skills, knowledge and attitudes needed by contemporary information professionals. You will learn how to design, plan, implement, manage and evaluate information services to meet the needs of clients. You will also learn about the management, curation and preservation of information artifacts, as well as the applications of emerging technologies in information practice. In addition to core skills and knowledge related to information practice, you will develop the communication, interpersonal and teamwork skills needed to work effectively in a global environment.

A hands-on, real world based curriculum gives you the opportunity to explore the information professions broadly and to gain a deep understanding of library and information practice.

Flexible Learning

This degree is designed to suit your busy lifestyle. Our flexible approach to teaching allows you to study online or face-to-face, or a mix of both. A blend of on campus classes, online classes, and class recordings provide you with options for how, when and where you engage with unit material.

Why choose this course?

Are you looking for a career in librarianship or the information professions more broadly? In this rapidly changing, technology driven and information rich age, careers in the information professions are varied and exciting. In this course, you will explore the interrelationships between information, technology and people and develop specialist skills and knowledge that will equip you for a variety of roles in the information professions.

Our innovative, flexible approaches to teaching and

learning allow you to balance study with your other commitments.

Real world learning

The degree aims to prepare students for work as information professional through a program of study that balances theoretical content, project based experiences and industry orientated perspectives.

During your studies, you will:

- Undertake authentic learning and assessment activities that set the key learning activities within actual libraries and information centres or interacting directly with industry practitioners.
- Hear from invited speakers who present their own employment situation as an example of the topic or theme covered in the class.
- Explore real world or research inspired problems within units.
- Undertake industry based research projects, undertaken with both an industry supervisor and an academic supervisor.
- Participate in the QUT Career Mentoring Scheme where students are partnered with a current industry practitioner for 6 months.

Career outcomes

As a graduate of this course, you will be ready to take on a career as a librarian, specialist librarian, database manager, web content manager, information architect, cataloguer, knowledge manager, or intranet manager.

Employment opportunities are extensive. Your ALIA accredited qualification can take you into a range of libraries, including

- academic libraries
- public libraries
- state and national libraries
- special libraries and information centres such as
 - o law libraries
 - o health and medical centres
 - o music libraries.

Opportunities also exist beyond traditional library contexts, including careers in

- knowledge management
- records management
- web and intranet development
- research, development and policy.

Professional recognition

As a graduate, you will be eligible for membership of the Australian Library and Information Association (ALIA).

Research pathways

This Masters degree provides a pathway to a research degree (Research Masters, Professional Doctorate or PhD). Students who successfully complete IFN600 Research Based Practice and a 48 credit point research project are encouraged to apply for enrolment in a doctoral program. IN22 provides direct pathways for entry to a PhD program as well as to the Faculty's Professional Doctorate, Doctor of Information Technology.

Sample Structure

Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)

Code	Title
Year 1, Semester 1	
IFN610	Management Issues for Information Professionals

Master of Information Science (Library and Information Practice)

IFN611	Information Retrieval
IFN612	Emerging Technologies for Information Practice
IFN620	Professional Practice
Year 1, Semester 2	
IFN614	Information Programs
IFN615	Information Management
IFN616	Online Information Services
IFN617	Managing and Organising Collections
Year 2, Semester 1	
IFN600	Research Based Practice
IFN701	Project 1
Select 1 unit from the Information Science Options List	
Year 2, Semester 2	
IFN702	Project 2
Select 1 unit from the Information Science Options List	
Select 1 unit from the Information Science Options List	

Semesters

- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)
- [Year 2, Semester 2](#)
- [Year 3, Semester 1](#)

Code	Title
Year 1, Semester 2	
IFN614	Information Programs
IFN615	Information Management
IFN616	Online Information Services
IFN617	Managing and Organising Collections
Year 2, Semester 1	
IFN610	Management Issues for Information Professionals
IFN611	Information Retrieval
IFN612	Emerging Technologies for Information Practice
IFN620	Professional Practice
Year 2, Semester 2	
IFN600	Research Based Practice
IFN701	Project 1
Select 1 unit from the Information Science Options List	
Year 3, Semester 1	
IFN702	Project 2
Select 1 unit from the Information Science Options List	
Select 1 unit from the Information Science Options List	

Handbook

Year	2015
QUT code	IN23
CRICOS	062622A
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,800 per Study Period (48 credit points)
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 Moe Wynn email : m.wynn@qut.edu.au ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor degree in business or information technology with a minimum grade point average (GPA) score of 4.0 (on QUT's 7 point scale).

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree in business or information technology with a minimum grade point average (GPA) score of 4.0 (on QUT's 7 point scale).

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

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 will study specialist units in Business Process Management specialisation and may undertake additional study in the areas of corporate systems, IT professional services, enterprise architecture and systems, and information and knowledge management.

Course Structure

To be eligible for the Master of Business Process Management (IN23):

- Students are required to complete 144 credit points of units.
- Students are required to complete the specified core units (120cp) which includes 48cp in specialist Business Process Management units
- Students must also complete two units (24cp) of electives from the list of approved elective units provided.

Domestic Course structure

The Master of Business Process Management provides 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 will study specialist units in Business Process Management specialisation and may undertake additional study in the areas of corporate systems, IT professional services, enterprise architecture and systems, and information and knowledge management.

Course completion rules

- Students are required to complete 144 credit points of units.

- Students are required to complete the specified core units (120cp) which includes 48cp in specialist Business Process Management units
- Students must also complete two units (24cp) of electives from the list of approved elective units provided.

International Course structure

The Master of Business Process Management provides 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 will study specialist units in Business Process Management specialisation and may undertake additional study in the areas of corporate systems, IT professional services, enterprise architecture and systems, and information and knowledge management.

Course completion rules

- Students are required to complete 144 credit points of units.
- Students are required to complete the specified core units (120cp) which includes 48cp in specialist Business Process Management units
- Students must also complete two units (24cp) of electives from the list of approved elective units provided.

Sample Structure Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)

Code	Title
Year 1, Semester 1	
MGN505	Consulting and Change Management
IFN650	Business Process Analytics
Master BPM Options List	
Master BPM Options List	
Year 1, Semester 2	
IFN652	Business Process Management
IFN651	Lean Six Sigma
IFN600	Research Based Practice
IFN700	Project Management
Year 2, Semester 1	
IFN701	Project 1
IFN702	Project 2

Handbook

Year	2015
QUT code	IT43
CRICOS	003776E
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
Total credit points	144
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July LIS part-time only in July
Int. Start Months	February, July
Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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
- Network Management
- Enterprise Systems
- Games Production
- Games Design
- Security
- Library and Information Studies (Multi-modal)
- 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.

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.

Students without an IT degree 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 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

Domestic Course structure

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

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.

Handbook

Year	2015
QUT code	IT43
CRICOS	003776E
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
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 Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

Domestic Course structure

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

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

Code	Title
Core	
INN500	PRINCE2 (R) Project Management
Electives	
- Select one from: Any IT postgraduate unit starting INN5xx, INN6xx or INN7xx	
Plus	
- Select any 6 (total of 72cp) postgraduate IT units NOT in the "Basic Unit List".	
Plus	
- Select 48 credit points of any postgraduate units	

Handbook

Year	2015
QUT code	IT43
CRICOS	003776E
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
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 Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Jason Watson 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.

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

Domestic Course structure

Web technologies and applications are reshaping contemporary organisations. This course 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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 144 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 48 credit points of any postgraduate 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

Web technologies and applications are reshaping contemporary organisations. This course 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.

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](#)
- [Digital Environments major](#)
- [Elective Units](#)

Code	Title
Core	
IFN700	Project Management
Digital Environments major	
IFN661	Mobile and Pervasive Systems
[INN345 is replaced by IFN661 from 2015]	
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
IFN690	Advanced User Centred Design
[INN540 is replaced by IFN690 from 2015]	
INN690	Minor Project 1
KCP408	Exploring New Media Worlds
[Note: KCP408 is no longer available for selection from 2014 and is replaced by an additional postgraduate IT unit (INN/IFN code) option selection]	
In addition, select a postgraduate IT unit (INN/IFN code) NOT in the "Basic Unit List".	
Elective Units	
Select any four Postgraduate units	

Handbook

Year	2015
QUT code	IT43
CRICOS	003776E
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
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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 Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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

Domestic Course structure

This major provides you with advanced knowledge that will enable you to specialise in an area of business operations such as logistics and finance. You will build an understanding of enterprise system processes and configuration activities which occur in companies using enterprise systems. You will understand the business activities that these systems support, preparing you for business, technical or system support roles. The course provides you with hands-on experience with successful enterprise systems so that you can put into practice the theory that supports business activities.

This course also seeks to develop logical thinking and the capability to understand and deal with complex systems, within a business management framework.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 144 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 48 credit points of any postgraduate 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

This major provides you with advanced knowledge that will enable you to specialise in an area of business operations such as logistics and finance. You will build an understanding of enterprise system processes and configuration activities which occur in companies using enterprise systems. You will understand the business activities that these systems support, preparing you for business, technical or system support roles. The course provides you with hands-on experience with successful enterprise systems so that you can put into practice the theory that supports business activities.

This course also seeks to develop logical thinking and the capability to understand and deal with complex systems, within a business management framework.

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

Master of Information Technology (Enterprise Systems)

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](#)
- [Enterprise Systems major:](#)
- [Elective Units](#)

Code	Title
Core	
IFN700	Project Management
Enterprise Systems major:	
IFN662	Enterprise Systems and Applications
Plus select 6 units from the following:	
IFN515	Fundamentals of Business Process Management
IFN600	Research Based Practice
IFN645	Data Mining Technology and Applications
IFN650	Business Process Analytics
IFN651	Lean Six Sigma
IFN660	Programming Language Theory
IFN663	Advanced Enterprise Architecture
IFN665	Advanced Topic 1
INN701	Advanced Research Topics
INN600	Advanced Readings 1
Elective Units	
Select any four Postgraduate units	

Handbook

Year	2015
QUT code	IT43
CRICOS	003776E
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
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 Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Kate Davis 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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 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

Domestic Course structure

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 in the study areas of IT, business and leadership. 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.

International Course structure

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 in the study areas of IT, business and leadership. 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.

Sample Structure

Code	Title
All of the following units:	
IFN612	Emerging Technologies for Information Practice
INN633	Executive Information Practice
INN693	Project
LCN623	Leadership Concepts, Theories and Issues
LCN624	Leading and Managing People
LCN630	Leadership, Policy and Change in Action
LCN631	Strategic Management
Elective Units	
Select any four University-wide Postgraduate units.	

Handbook

Year	2015
QUT code	IT43
CRICOS	003776E
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
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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 Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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 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

Domestic Course structure

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 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 extend existing skills to support their career development.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 144 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 48 credit points of any postgraduate 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

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 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 extend existing skills to support their career development.

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.

Sample Structure

Semesters

- [Core](#)
- [All of the following units:](#)
- [In addition, select 3 of the following units:](#)
- [Elective Units](#)

Code	Title
Core	
INN500	PRINCE2 (R) Project Management
All of the following units:	
INN180	Computer Games Studies
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN281	Advanced Game Design
In addition, select 3 of the following units:	
INN181	Introduction to Games Production
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN700	Introduction To Research
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN383	AI for Games
INN701	Advanced Research Topics
MAN281	Mathematics for Computer Graphics
INN282	Games Level Design
Elective Units	
Select any four Postgraduate Units	

Handbook

Year	2015
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CRICOS	003776E
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Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

Minimum English requirements

Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)	
Speaking	6.0
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Reading	6.0
Listening	6.0
Overall	6.5

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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

Domestic Course structure

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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 144 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 48 credit points of any postgraduate 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

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.

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:](#)

Code	Title
Core	
IFN700	Project Management
All of the following units:	
INN180	Computer Games Studies
INN181	Introduction to Games Production
[Note: Last Offered Sem 2 2014]	

Master of Information Technology (Games Production)

INN600	Advanced Readings 1
INN601	Advanced Readings 2
In addition, select 3 of the following units:	
IFN515	Fundamentals of Business Process Management
[INN220 is replaced by IFN515 from 2015]	
IFN651	Lean Six Sigma
[INN321 is replaced by IFN651 from 2015]	
IFN615	Information Management
[INN330 is replaced by IFN615 from 2015]	
IFN662	Enterprise Systems and Applications
[INN311 is replaced by IFN662 from 2015]	
INN700	Introduction To Research
INN701	Advanced Research Topics
Select any four elective Units from the list below:	
MGN409	Management Theory and Practice
MGN412	Organisational Behaviour
MGN447	Managing in a Globalised Economy
AYN416	Financial Accounting 1
AMN442	Marketing Management
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project

Handbook

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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 Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Kate Davis 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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

Domestic Course structure

The Information Management major provides you with the skills 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 optional units to tailor your learning to specific areas such as health services, education, creative industries and information technology.

You will develop skills 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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 144 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 48 credit points of postgraduate 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

The Information Management major provides you with the skills 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 optional units to tailor your learning to specific areas such as health services, education, creative industries and information technology.

You will develop skills 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.

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

Code	Title
All of the following units:	
IFN700	Project Management
IFN610	Management Issues for Information Professionals
IFN611	Information Retrieval
IFN615	Information Management
IFN616	Online Information Services
IFN617	Managing and Organising Collections
IFN690	Advanced User Centred Design
[INN540 is replaced by IFN690 from 2015]	
IFN665	Advanced Topic 1
[INN690 is replaced by IFN665 from 2015]	
Elective Units	
Select any four Postgraduate Units	

Handbook

Year	2015
QUT code	IT43
CRICOS	003776E
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
Total credit points	144
Credit points full-time sem.	48
Credit points part-time sem.	24
Dom. Start Months	February, July July offering is part-time only.
Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Kate Davis 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.

Domestic Course structure

The Library and Information Science 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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 144 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 24 credit points of project or advanced research units.

Students may be allowed to take up to two units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

International Course structure

The Library and Information Science 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.

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 two units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Sample Structure

Code	Title
Library and Information Studies major:	
IFN611	Information Retrieval
IFN612	Emerging Technologies for Information Practice
IFN614	Information Programs
IFN617	Managing and Organising Collections
IFN620	Professional Practice

Master of Information Technology (Library and Information Studies)

IFN616	Online Information Services
INN531	Collections Management
IFN665	Advanced Topic 1
Elective Units	
Select any two Postgraduate units	

Handbook

Year	2015
QUT code	IT43
CRICOS	003776E
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
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 Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.

Domestic Course structure

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 to administer and manage computer networks currently used in industry, and also the theory and practical aspects of network administration and management. Network Management graduates are required to plan either new networks or upgrade 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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 144 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 48 credit points of any postgraduate 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

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 to administer and manage computer networks currently used in industry, and also the theory and practical aspects of network administration and management. Network Management graduates are required to plan either new networks or upgrade 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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 144 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 48 credit points of any postgraduate 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](#)
- [Network Management major:](#)
- [Plus select 4 units from the following:](#)
- [Elective Units](#)

Code	Title
Core	
IFN700	Project Management
Network Management major:	
ENN523	Advanced Network Engineering
Note: this unit replaces INN352	
IFN641	Advanced Network Management
IFN507	Network Systems
Plus select 4 units from the following:	
ENN524	Mobile Network Engineering
IFN511	Security Management
IFN600	Research Based Practice
IFN642	Applied Cryptography and Network Security
IFN643	Computer System Security
IFN665	Advanced Topic 1
IFN701	Project 1
INN701	Advanced Research Topics
Elective Units	
Select any four Postgraduate Units	

Handbook

Year	2015
QUT code	IT43
CRICOS	003776E
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
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 Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.

Domestic Course structure

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 their broad context: the people, processes and technologies involved with interacting in this new online era. You will explore these topics through participation in projects (research related and industry related) and practice in the community (small groups focusing on particular advanced topics). You will be exposed to a research and industry best-practice environment within QUT's Information Security Institute through collaboration with its staff and students. You will graduate with an understanding and appreciation of what it means to be a security professional in contemporary global environments.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 144 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 48 credit points of any postgraduate 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

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 their broad context: the people, processes and technologies involved with interacting in this new online era. You will explore these topics through participation in projects (research related and industry related) and practice in the community (small groups focusing on particular advanced topics). You will be exposed to a research and industry best-practice environment within QUT's Information Security Institute through collaboration with its staff and students. You will graduate with an understanding and appreciation of what it means to be a security professional in contemporary global environments.

Course completion rules

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 four units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Sample Structure Semesters

- [Core](#)
- [Security major:](#)
- [Plus select 5 units from the following:](#)
- [Elective Units](#)

Master of Information Technology (Security)

Code	Title
Core	
IFN700	Project Management
Security major:	
IFN511	Security Management
[INN255 is replaced by IFN511]	
IFN642	Applied Cryptography and Network Security
[INN651 is replaced by IFN642]	
Plus select 5 units from the following:	
IFN600	Research Based Practice
IFN616	Online Information Services
IFN643	Computer System Security
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN701	Advanced Research Topics
Cybercrime	
Analytical Methods of Intelligence	
LWN117	Cyber Law and Policy
MAN778	Applications of Discrete Mathematics
MGN423	Contemporary Strategic Analysis
MGN433	Managing High-Performance Organisations
Elective Units	
Select any four Postgraduate Units	

INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2
INN700	Introduction To Research
GSN440	Risk Management 1
JSN106	Analytical Methods of Intelligence
MAN778	Applications of Discrete Mathematics
JSN114	Cybercrime
MGN423	Contemporary Strategic Analysis
MGN433	Managing High-Performance Organisations
INN701	Advanced Research Topics
LWN117	Cyber Law and Policy
Elective Units	
Select any four Postgraduate Units	

Semesters

- [Core](#)
- [All of the following units:](#)
- [In addition, select 5 of the following units:](#)
- [Elective Units](#)

Code	Title
Core	
INN500	PRINCE2 (R) Project Management
All of the following units:	
INN255	Security
INN651	Security Technologies
In addition, select 5 of the following units:	
INN355	Cryptology and Protocols
INN550	Computer Forensics
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project

Handbook

Year	2015
QUT code	IT43
CRICOS	003776E
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,900 per Study Period (48 credit points)
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 Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.

Domestic Course structure

This major will enhance your capabilities as a software developer. It will provide you with an understanding of the issues, structures 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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 144 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 48 credit points of any postgraduate 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

This major will enhance your capabilities as a software developer. It will provide you with an understanding of the issues, structures 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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 144 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 48 credit points of any postgraduate 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](#)
- [Software Architecture major](#):
- [Plus select 4 units from the following](#):
- [Elective Units](#)

Code	Title
Core	
IFN700	Project Management
Software Architecture major:	

Master of Information Technology (Software Architecture)

INN371	Data Structures and Algorithms
INN372	Agile Software Development
IFN660	Programming Language Theory
Plus select 4 units from the following:	
IFN505	Analysis of Programs
IFN600	Research Based Practice
IFN665	Advanced Topic 1
IFN701	Project 1
INN600	Advanced Readings 1
INN701	Advanced Research Topics
Elective Units	
Select any four Postgraduate Units	

Handbook

Year	2015
QUT code	IT44
CRICOS	053123F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$10,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,600 per Study Period (48 credit points)
Total credit points	192
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

Description

Information technology is now firmly ensconced in society with all the other business practices that constitute modern organisations. This Master of Information Technology (Advanced) 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 course structures that provide for ten different majors other than the "No Major" option:

- Software Architecture
- Network Management
- Enterprise Systems
- Games Production
- Games Design
- Security
- Library and Information Studies
- 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.

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.

Students without an IT degree are recommended to select three Basic Elective Units as their electives.

Advanced Research Units (Complementary Studies):

Students who enrol in the Masters Advanced program must complete four advanced research or project units. It is recommended that students complete advanced research and project units in the latter half of their course.

Students wishing to use the Masters Advanced program as a pathway to a PhD program within QUT are advised to 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.

Domestic Course structure

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

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

- [Core](#)
- [Major Study Areas](#)
- [Special Entry Requirements](#)

Code	Title
Core	
IFN700	Project Management
Major Study Areas	
Students choose one of the following majors (see Major option list):	
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).	

Handbook

Year	2015
QUT code	IT44
CRICOS	053123F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$10,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,600 per Study Period (48 credit points)
Total credit points	192
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

Domestic Course structure

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

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

- [Core](#)
- [Electives](#)
- [Advanced Research Units \(Project Units\)](#)

Code	Title
Core	
IFN700	Project Management
Electives	
- Select one from: Any IT postgraduate unit starting INN5xx, IFN5xx, INN6xx or INN7xx	
Plus	
- Select any 6 (total of 72cp) postgraduate IT units NOT in the "Basic Unit List".	
Plus	
- Select 48 credit points of any postgraduate units	
Advanced Research Units (Project Units)	
Students of IT44 are required to complete 48 credit points of advanced research/project units in the form of a 48 credit point Dissertation or two 24 credit point Projects.	

Handbook

Year	2015
QUT code	IT44
CRICOS	053123F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$10,500 per Study Period (48 credit points)
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Total credit points	192
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Jason Watson 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.
- 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.

Domestic Course structure

Web technologies and applications are reshaping contemporary organisations. This course 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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 192 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 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

Web technologies and applications are reshaping contemporary organisations. This course 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.

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 all of the following units:](#)
- [Elective Units](#)
- [Advanced Research Units \(Project units\)](#)

Code	Title
Core	
INN500	PRINCE2 (R) Project Management
Select all of the following units:	
INN345	Mobile and Ubiquitous Computing
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN540	User Experience
INN690	Minor Project 1
KCP408	Exploring New Media Worlds
In addition, select any (total of 12 cp) postgraduate IT units (INN code) NOT in the "Basic Unit List".	
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 forms of a 48cp Dissertation or two 24cp Projects.	

Handbook

Year	2015
QUT code	IT44
CRICOS	053123F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
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International fee (indicative)	2015: \$13,600 per Study Period (48 credit points)
Total credit points	192
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.

Domestic Course structure

This major provides you with advanced knowledge that will enable you to specialise in an area of business operations such as logistics and finance. You will build an understanding of enterprise system processes and configuration activities which occur in companies using enterprise systems. You will understand the business activities that these systems support, preparing you for business, technical or system support roles. The course provides you with hands-on experience with successful enterprise systems so that you can put into practice the theory that supports business activities.

This course also seeks to develop logical thinking and the capability to understand and deal with complex systems, within a business management framework.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 192 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 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

This major provides you with advanced knowledge that will enable you to specialise in an area of business operations such as logistics and finance. You will build an understanding of enterprise system processes and configuration activities which occur in companies using enterprise systems. You will understand the business activities that these systems support, preparing you for business, technical or system support roles. The course provides you with hands-on experience with successful enterprise systems so that you can put into practice the theory that supports business activities.

This course also seeks to develop logical thinking and the capability to understand and deal with complex systems, within a business management framework.

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](#)
- [Enterprise Systems major](#)
- [Elective Units](#)

Master of Information Technology (Advanced) (Enterprise Systems)

- [Advanced Research/Project Units](#)

Code	Title
Core	
IFN700	Project Management
Enterprise Systems major:	
IFN662	Enterprise Systems and Applications
Plus select 6 units from the following:	
IFN515	Fundamentals of Business Process Management
IFN600	Research Based Practice
IFN645	Data Mining Technology and Applications
IFN650	Business Process Analytics
IFN651	Lean Six Sigma
IFN660	Programming Language Theory
IFN663	Advanced Enterprise Architecture
IFN665	Advanced Topic 1
INN701	Advanced Research Topics
INN600	Advanced Readings 1
Elective Units	
Select any four Postgraduate units	
Advanced Research/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.	

Handbook

Year	2015
QUT code	IT44
CRICOS	053123F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$10,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,600 per Study Period (48 credit points)
Total credit points	192
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

Domestic Course structure

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 in the study areas of IT, business and leadership. 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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 192 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 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

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 in the study areas of IT, business and leadership. 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.

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

- [All of the following units:](#)
- [Elective Units](#)
- [Advanced Research Units \(Project units\)](#)

Code	Title
All of the following units:	
INN633	Executive Information Practice
INN333	Information Programs
INN693	Project
LCN623	Leadership Concepts, Theories and Issues
LCN624	Leading and Managing People
LCN630	Leadership, Policy and Change in Action
LCN631	Strategic Management
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 forms of a 48cp Dissertation or two 24cp Projects.	

Handbook

Year	2015
QUT code	IT44
CRICOS	053123F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
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Start months	February, July
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Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

Minimum English requirements

Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)	
Speaking	6.0
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Reading	6.0
Listening	6.0
Overall	6.5

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.

Domestic Course structure

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 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 extend existing skills to support their career development.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 192 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 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

This course focuses on developing the design and storytelling skills required to create games and interactive technology. You will have the opportunity

Master of Information Technology (Advanced) (Games Design)

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 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 extend existing skills to support their career development.

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.

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.

Sample Structure

Semesters

- [Core](#)
- [All of the following units:](#)
- [In addition, select 3 of the following units:](#)
- [Elective Units](#)
- [Advanced Research Units \(Project Units\)](#)

Code	Title
Core	
INN500	PRINCE2 (R) Project Management
All of the following units:	
INN180	Computer Games Studies
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN281	Advanced Game Design
In addition, select 3 of the following units:	
INN181	Introduction to Games Production
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN700	Introduction To Research
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN383	AI for Games
MAN281	Mathematics for Computer Graphics
INN701	Advanced Research Topics
INN282	Games Level Design
Elective Units	
Select any four Postgraduate Units.	

Handbook

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Duration (part-time domestic)	4 years
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Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.

Domestic Course structure

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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 192 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 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

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.

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

Master of Information Technology (Advanced) (Games Production)

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](#)
- [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 \(Project Units\)](#)

Code	Title
Core	
INN500	PRINCE2 (R) Project Management
All of the following units:	
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN600	Advanced Readings 1
INN601	Advanced Readings 2
In addition, select 3 of the following units:	
INN220	Business Analysis
INN311	Enterprise Systems
INN321	Business Process Improvement
INN330	Information Management
INN701	Advanced Research Topics
INN700	Introduction To Research
Select any four elective units from the list below:	
GSN401	Managing in the Global Business Environment
GSN405	Strategic Management
GSN413	Financial Management
GSN415	Understanding Leadership and Complexity
GSN416	Business Plans 1
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
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.	

Handbook

Year	2015
QUT code	IT44
CRICOS	053123F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$10,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,600 per Study Period (48 credit points)
Total credit points	192
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.
- 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.

Domestic Course structure

The Information Management major provides you with the skills 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 optional units to tailor your learning to specific areas such as health services, education, creative industries and information technology.

You will develop skills 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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 192 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 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

The Information Management major provides you with the skills 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 optional units to tailor your learning to specific areas such as health services, education, creative industries and information technology.

You will develop skills 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.

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.

Sample Structure Semesters

- [All of the following units:](#)
- [Elective Units](#)
- [Advanced Research/Project Units](#)

Code	Title
All of the following units:	
IFN700	Project Management
IFN610	Management Issues for Information Professionals
IFN611	Information Retrieval
IFN615	Information Management
IFN616	Online Information Services
IFN617	Managing and Organising Collections
IFN690	Advanced User Centred Design
IFN665	Advanced Topic 1
Elective Units	
Select any four Postgraduate Units	
Advanced Research/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.	

Handbook

Year	2015
QUT code	IT44
CRICOS	053123F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
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Domestic fee (indicative)	2015: \$10,500 per Study Period (48 credit points)
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Total credit points	192
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.

Domestic Course structure

The Library and Information Science 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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 192 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 48 credit points of project or advanced research units.

Students may be allowed to take up to two units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

International Course structure

The Library and Information Science 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.

Master of Information Technology (Advanced) (Library and Information Studies)

This major is offered in a flexible delivery mode, allowing students to complete their studies either face-to-face or online.

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 two units of electives. These units may be selected from postgraduate units outside of the Science and Engineering Faculty.

Sample Structure

Semesters

- [Library and Information Studies major:](#)
- [Elective Units](#)
- [Advanced Research/Project Units](#)

Code	Title
Library and Information Studies major:	
IFN611	Information Retrieval
IFN612	Emerging Technologies for Information Practice
IFN614	Information Programs
IFN617	Managing and Organising Collections
IFN620	Professional Practice
IFN616	Online Information Services
INN531	Collections Management
IFN665	Advanced Topic 1
Elective Units	
Select any two Postgraduate units	
Advanced Research/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.	

Handbook

Year	2015
QUT code	IT44
CRICOS	053123F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$10,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,600 per Study Period (48 credit points)
Total credit points	192
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.
- 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.

Domestic Course structure

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 to administer and manage computer networks currently used in industry, and also the theory and practical aspects of network administration and management. Network Management graduates are required to plan either new networks or upgrade 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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 192 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 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

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 to administer and manage computer networks currently used in industry, and also the theory and practical aspects of network administration and management. Network Management graduates are required to plan either new networks or upgrade 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.

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.

Sample Structure

Semesters

- [Core](#)
- [Network Management major:](#)
- [Plus select 4 units from the following:](#)
- [Elective Units](#)
- [Advanced Research/Projects Units](#)

Code	Title
Core	
IFN700	Project Management
Network Management major:	
ENN523	Advanced Network Engineering
Note: this unit replaces INN352	
IFN641	Advanced Network Management
Note: this unit replaces INN650	
IFN507	Network Systems
Not available to students who have completed INN350 and INN351	
Plus select 4 units from the following:	
ENN524	Mobile Network Engineering
IFN511	Security Management
IFN600	Research Based Practice
IFN642	Applied Cryptography and Network Security
IFN643	Computer System Security
IFN665	Advanced Topic 1
IFN701	Project 1
INN701	Advanced Research Topics
Elective Units	
Select any four Postgraduate Units	
Advanced Research/Projects 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.

Semesters

- [Core](#)
- [All of the following units:](#)
- [In addition, select 3 of the following units:](#)
- [Elective Units](#)
- [Advanced Research Units \(Project Units\)](#)

Code	Title
Core	
INN500	PRINCE2 (R) Project Management
All of the following units:	
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN650	Advanced Network Management
In addition, select 3 of the following units:	
ENN524	Mobile Network Engineering
INN255	Security
INN353	Wireless and Mobile Networks
INN354	Next Generation Internetworks
INN355	Cryptology and Protocols
INN550	Computer Forensics
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN651	Security Technologies
INN652	Advanced Cryptology
INN700	Introduction To Research
INN701	Advanced Research Topics
INS451	CCNA 3 and 4 Lan Switching
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.	

Handbook

Year	2015
QUT code	IT44
CRICOS	053123F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$10,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,600 per Study Period (48 credit points)
Total credit points	192
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Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.
- 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.

Domestic Course structure

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 their broad context: the people, processes and technologies involved with interacting in this new online era. You will explore these topics through participation in projects (research related and industry related) and practice in the community (small groups focusing on particular advanced topics). You will be exposed to a research and industry best-practice environment within QUT's Information Security Institute through collaboration with its staff and students. You will graduate with an understanding and appreciation of what it means to be a security professional in contemporary global environments.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 192 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 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

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 their broad context: the people, processes and technologies involved with interacting in this new online era. You will explore these topics through participation in projects (research related and industry related) and practice in the community (small groups focusing on particular advanced topics). You will be exposed to a research and industry best-practice environment within QUT's Information Security Institute through collaboration with its staff and students. You will graduate with an understanding and appreciation of what it means to be a security professional in contemporary global environments.

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.

Sample Structure Semesters

- [Core](#)
- [Security major:](#)
- [Plus select 5 units from the following:](#)
- [Elective Units](#)
- [Advanced Research/Project Units](#)

Code	Title
Core	
IFN700	Project Management
Security major:	
IFN511	Security Management
[INN255 is replaced by IFN511 from 2015]	
IFN642	Applied Cryptography and Network Security
[INN651 is replaced by IFN642 from 2015]	
Plus select 5 units from the following:	
IFN600	Research Based Practice
IFN616	Online Information Services
IFN643	Computer System Security
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN701	Advanced Research Topics
Cybercrime	
Analytical Methods of Intelligence	
LWN117	Cyber Law and Policy
MAN778	Applications of Discrete Mathematics
MGN423	Contemporary Strategic Analysis
MGN433	Managing High-Performance

Organisations
Elective Units
Select any four Postgraduate Units
Advanced Research/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.

Semesters

- [Core](#)
- [All of the following units:](#)
- [In addition, select 5 of the following units:](#)
- [Elective Units](#)
- [Advanced Research Units \(Project Units\)](#)

Code	Title
Core	
INN500	PRINCE2 (R) Project Management
All of the following units:	
INN255	Security
INN651	Security Technologies
In addition, select 5 of the following units:	
INN355	Cryptology and Protocols
INN550	Computer Forensics
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN690	Minor Project 1
INN691	Minor Project 2
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2
INN700	Introduction To Research
GSN440	Risk Management 1
JSN106	Analytical Methods of Intelligence
JSN114	Cybercrime
MAN778	Applications of Discrete Mathematics
MGN423	Contemporary Strategic Analysis
MGN433	Managing High-Performance Organisations
INN701	Advanced Research Topics
LWN117	Cyber Law and Policy

Course Notes
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.

Handbook

Year	2015
QUT code	IT44
CRICOS	053123F
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$10,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,600 per Study Period (48 credit points)
Total credit points	192
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Dr Hasmukh Morarji; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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

Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.0 (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.

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

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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.

Domestic Course structure

This major will enhance your capabilities as a software developer. It will provide you with an understanding of the issues, structures 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.

Course completion rules

There are a number of requirements that need to be met before completing the program. Students are required to complete:

- 192 credit points of units and the specified core unit.
- the specific unit requirements for a major if seeking a single area of specialisation. Students not seeking a single area of specialisation may graduate with no major.
- 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

This major will enhance your capabilities as a software developer. It will provide you with an understanding of the issues, structures and technologies used for developing software

Master of Information Technology (Advanced) (Software Architecture)

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.

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.

Sample Structure

Semesters

- [Core](#)
- [Software Architecture major:](#)
- [Plus select 4 units from the following:](#)
- [Elective Units](#)
- [Advanced Research/Project Units](#)

Code	Title
Core	
IFN700	Project Management
Software Architecture major:	
INN371	Data Structures and Algorithms
INN372	Agile Software Development
IFN660	Programming Language Theory
Plus select 4 units from the following:	
IFN505	Analysis of Programs
IFN600	Research Based Practice
IFN665	Advanced Topic 1
IFN701	Project 1
INN600	Advanced Readings 1
INN701	Advanced Research Topics
Elective Units	
Select any four Postgraduate Units	
Advanced Research/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.	

Handbook

Year	2015
QUT code	IT53
CRICOS	062622A
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,700 per Study Period (48 credit points)
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 Wasana Bandara; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au Dr Moe Wynn
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

To be eligible for this course, applicants must have a bachelor degree with a grade point average of at least 4.0 (on a 7-point scale) AND demonstrated competence in the basic skills and concepts of personal or office computer usage.

International Entry requirements

A bachelor degree with a grade point average of at least 4.0 (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)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

This Program allows students who obtain IELTS 6.0 with no sub-band lower than 5.0 to undertake the Postgraduate Communication Pathway program where they undertake two Communication units as electives in the first semester of their Masters course.

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 are required to complete 144 credit points of units.

- 48 credit points (4 units) of IT related units (Block A)
- 48 credit points (4 units) of Business Process Core units (Block B)
- 48 credit points (4 units) of General Elective units (Block C)

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.

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.

Domestic Course structure

This degree provides graduates with the skills and knowledge to design, execute and manage business process improvement initiatives at project, program and organisation levels. Students undertake study in areas of business/process analysis, process management, process modelling, process improvement, and process automation.

There are complementary units in professional services (including project management and IT consulting), enterprise systems, and information and knowledge management within business processes.

Course completion rules

Students are required to complete 144 credit points of units.

- 48 credit points (4 units) of IT related units (Block A)
- 48 credit points (4 units) of Business Process Core units (Block B)
- 48 credit points (4 units) of General Elective units (Block C)

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

This degree provides graduates with the skills and knowledge to design, execute and manage business process improvement initiatives at project, program and organisation levels. Students undertake study in areas of business/process analysis, process management, process modelling, process improvement, and process automation.

There are complementary units in professional services (including project management and IT consulting), enterprise systems, and information and knowledge management within business processes.

Course completion rules

Students are required to complete 144 credit points of units.

- 48 credit points (4 units) of IT related units (Block A)
- 48 credit points (4 units) of Business Process Core units (Block B)
- 48 credit points (4 units) of General Elective units (Block C)

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

- [BLOCK A - IT RELATED UNITS \(48cp\) - Select 4 units](#)
- [BLOCK B - BUSINESS PROCESS RELATED CORE UNITS \(48cp\) - Select 4 units](#)
- [BLOCK C - GENERAL ELECTIVE UNITS \(48cp\) - Select 4 units](#)
- [Grad Cert Business Process Management IT61 exit point only](#)
- [Grad Cert Corporate Systems Management IT62 exit point only](#)

Code	Title
BLOCK A - IT RELATED UNITS (48cp) - Select 4 units	
1. 4 units from IT Graduate Gateway units (Recommended for students who studied IT).	
OR	
2. 4 units from Non-IT Graduate Basic Units (Recommend for students who don't have IT background).	
OR	
3. Students can also mix any 4 units from IT-Graduate and Non-IT Graduate Units.	
BLOCK A: IT Graduates Gateway Units	
INN221	Technology Management
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN322	Information Systems Consulting
INN330	Information Management
INN340	Database Design
INN500	PRINCE2 (R) Project Management
INN700	Introduction To Research
BLOCK A: Non-IT Graduates Basic Units	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN220	Business Analysis
INN221	Technology Management
INN500	PRINCE2 (R) Project Management
BLOCK B - BUSINESS PROCESS RELATED CORE UNITS (48cp) - Select 4 units	
INN320	Business Process Modelling
INN321	Business Process Improvement
INN323	Business Process Automation
INN324	Business Process Analytics
INN331	Management Issues for Information Professionals
INN326	Advanced Process Modelling
INN327	Business Process Management
INN610	Case Studies in Business Process Management
INN690	Minor Project 1
BLOCK C - GENERAL ELECTIVE UNITS (48cp) - Select 4 units	
General electives can be selected from the following options:	
1. IT Industry or research project (There are 12cps, 24cps and 48 cps project unit depending on the scale of project).	
2. IT Postgraduate units including IT Gateway units or Non-IT Graduate Units.	
3. Block B Core units.	
4. QUT University wide postgraduate units - that will align to the Business Process Management field and/ or your career path. This should be discussed and approved by the Course Coordinator.	

Grad Cert Business Process Management IT61 exit point only	
INN311	Enterprise Systems
INN610	Case Studies in Business Process Management
INN321	Business Process Improvement
INN320	Business Process Modelling
Grad Cert Corporate Systems Management IT62 exit point only	
INN331	Management Issues for Information Professionals
INN690	Minor Project 1
Students must choose 2 of the following units:	
INN120	Corporate Systems
INN101	Impact of IT
INN122	Organisational Databases
INN500	PRINCE2 (R) Project Management
INN124	Information Systems Development
INN220	Business Analysis
INN221	Technology Management

Semesters

- [BLOCK A - IT RELATED UNITS \(48cp\) - Select 4 Units](#)
- [BLOCK B - BUSINESS PROCESS RELATED CORE UNITS \(48cp\) - Select 4 units](#)
- [BLOCK C - GENERAL ELECTIVE UNITS \(48cp\) - Select 4 units](#)
- [Grad Cert Business Process Management IT61 exit point only](#)
- [Grad Cert Corporate Systems Management IT62 exit point only](#)

Code	Title
BLOCK A - IT RELATED UNITS (48cp) - Select 4 Units	
1. 4 units from IT Graduate Gateway units (Recommended for students who studied IT).	
OR	
2. 4 units from Non-IT Graduate Basic Units (Recommend for students who dont have IT background).	
OR	
3. Students can also mix any 4 units from IT-Graduate and Non-IT Graduate Units.	
BLOCK A: IT Graduates Gateway Units	
INN221	Technology Management
IFN662	Enterprise Systems and Applications
IFN615	Information Management
IFN509	Data Manipulation
IFN700	Project Management
IFN600	Research Based Practice
IFN504	Corporate Information Systems
BLOCK B - BUSINESS PROCESS RELATED CORE UNITS (48cp) - Select 4 units	
IFN650	Business Process Analytics
IFN651	Lean Six Sigma
IFN610	Management Issues for Information Professionals
MGN505	Consulting and Change Management
IFN652	Business Process Management
IFN665	Advanced Topic 1
BLOCK C - GENERAL ELECTIVE UNITS (48cp) - Select 4 units	
General electives can be selected from the following options:	
1. IT Industry or research project (There are 12cps, 24cps and 48 cps project unit depending on the	

scale of project).	
2. IT Postgraduate units including IT Gateway units or Non-IT Graduate Units.	
3. Block B Core units.	
4. QUT University wide postgraduate units - that will align to the Business Process Management field and/ or your career path. This should be discussed and approved by the Course Coordinator.	
Grad Cert Business Process Management IT61 exit point only	
IFN662	Enterprise Systems and Applications
IFN651	Lean Six Sigma
IFN615	Information Management
IFN650	Business Process Analytics
Grad Cert Corporate Systems Management IT62 exit point only	
IFN610	Management Issues for Information Professionals
IFN665	Advanced Topic 1
Students must choose 2 of the following units:	
IFN504	Corporate Information Systems
IFN700	Project Management
IFN515	Fundamentals of Business Process Management
INN221	Technology Management

Handbook

Year	2015
QUT code	MA85
CRICOS	046042K
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,500 per Study Period (48 credit points)
International fee (indicative)	2015: \$12,700 per Study Period (48 credit points)
Total credit points	144
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	February, July February, July or Summer Program
Int. Start Months	February, July
Course Coordinator	Dr James McGree; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

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.

Domestic 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.

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

Code	Title
Course Notes	
- Total credit points: 144	
- 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.	
- 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:	
MAN101	Statistical Data Analysis 1
MAN121	Single Variable Calculus and Differential Equations
MAN122	Linear Algebra and Multivariable Calculus
MAN200	Advanced Topics in Mathematical Sciences 1
MAN201	Advanced Topics in Mathematical Sciences 2
MAN210	Probability and Stochastic Modelling 1
MAN220	Computational Mathematics 1
MAN281	Mathematics for Computer Graphics
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN313	Mathematics of Finance
MAN314	Probability and Stochastic Modelling 2
MAN315	Operations Research 2
MAN413	Differential Equations
MAN414	Applied Statistics 1
MAN420	Computational Mathematics 2
MAN422	Mathematical Modelling
MAN461	Discrete Mathematics
MAN480	Introduction to Scientific Computation
ADVANCED POSTGRADUATE MATHEMATICS UNITS:	
MAN521	Applied Mathematics 3
MAN522	Computational Mathematics 3
MAN524	Statistical Inference
MAN525	Operations Research 3A
MAN533	Statistical Techniques
MAN536	Time Series Analysis 1
MAN613	Partial Differential Equations
MAN623	Financial Mathematics
MAN624	Applied Statistics 2

Master of Mathematical Science

MAN625	Operations Research 3B
MAN672	Advanced Mathematical Modelling
MAN700	Project
MAN717	Minor Project
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN765	Bayesian Data Analysis
MAN766	Time Series Analysis 2
MAN768	Advanced Techniques in Operations Research
MAN769	Mathematics of Finance
MAN771	Computational Mathematics 4
MAN774	Perturbation Methods
MAN775	Statistical Modelling of Financial Processes
MAN777	Mathematics of Fluid Flow
MAN778	Applications of Discrete Mathematics

Handbook

Year	2015
QUT code	PH80
CRICOS	043548G
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: CSP \$4,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,100 per Study Period (48 credit points)
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 Andrew Fielding; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor degree (or higher award) in physics or bachelor degree in science with a major in physics; or

Applicants with other qualifications (eg medical engineering) may enrol with the approval of the course coordinator. In some instances, a modified program may be necessary.

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree (or higher award) in physics or bachelor degree in science with a major in 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	6.5

Course Design

Stage 1— Graduate Diploma (PH71) comprises assessed coursework such as advanced lectures, seminars, reading units or independent study. Full time students will need an average of 14 hours a week of formal contact (seven hours for parttime students). Students can graduate with a Graduate Diploma in Medical Physics after satisfactory completion of Stage 1.

Stage 2— Master of Applied Science (PH80) students undertake a program of supervised research and investigation that can be completed at QUT or in a suitable external institution.

Professional Recognition

The course is accredited by the Australasian College of Physical Sciences and Engineers in Medicine.

Domestic Course structure

Stage 1—Graduate Diploma (PH71) comprises assessed coursework such as advanced lectures, seminars, reading units or independent study. Full-time students will need an average of 14 hours a week of formal contact (seven hours for parttime students). Students can graduate with a Graduate Diploma in Medical Physics after satisfactory completion of Stage 1.

Stage 2—Master of Applied Science (PH80) students undertake a program of supervised research and investigation that can be completed at QUT or in a suitable external institution.

International Course structure

Stage 1—Graduate Diploma (PH71) comprises assessed coursework such as advanced lectures, seminars, reading units or independent study. Full-time students will need an average of 14 hours a week of formal contact (seven hours for parttime students). Students can graduate with a Graduate

Diploma in Medical Physics after satisfactory completion of Stage 1.

Stage 2—Master of Applied Science (PH80) students undertake a program of supervised research and investigation that can be completed at QUT or in a suitable external institution.

Sample Structure Semesters

- [STAGE 1: Students must complete units from the list below, totalling 96 credit points:](#)
- [Year 1, Semester 1 \(February to June\)](#)
- [Year 1, Semester 2 \(July to October\)](#)
- [STAGE 2: Project over One Semester or Summer Program](#)

Code	Title
STAGE 1: Students must complete units from the list below, totalling 96 credit points:	
Year 1, Semester 1 (February to June)	
LSN104	Advancing Anatomy and Physiology
PCN113	Radiation Physics
PCN114	Microprocessors and Instrumentation
PCN211	Physics of Medical Imaging
Year 1, Semester 2 (July to October)	
PCN112	Medical Imaging Science
PCN212	Radiotherapy
PCN214	Health and Occupational Physics
PCN218	Research Methodology and Professional Studies
STAGE 2: Project over One Semester or Summer Program	
PCN520	Project (Full-time)

Handbook

Year	2015
QUT code	PH82
CRICOS	058287A
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$8,900 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,300 per Study Period (48 credit points)
Total credit points	144
Credit points part-time sem.	24
Start months	February
Int. Start Months	February
Course Coordinator	Associate Professor Ian Cowling; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

Domestic Entry requirements

To be eligible for this course, applicants must have:

- a bachelor-level degree in an appropriate field, OR
- successfully completed 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 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.

Domestic Course structure

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.

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.

Sample Structure Semesters

- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [Year 2, Semester 1](#)

Code	Title
Year 1, Semester 1	
PCN121	Vision Colour and

	Photometry
PCN124	Lamps and Luminaires
PCN224	Applied Lighting
PCN321	Reading Topic 1
Year 1, Semester 2	
PCN122	Lighting Design
PCN123	Sustainability and Human Factors
PCN222	Advanced Lighting Design
PCN223	Lighting Applications
Year 2, Semester 1	
PCN221	Best Practices in Lighting
PCN320	Lighting Project
PCN322	Reading Topic 2

Handbook

Year	2015
QUT code	PM20
CRICOS	084927B
Duration (full-time)	1.5 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$9,400 per Study Period (48 credit points)
International fee (indicative)	2015: \$14,100 per Study Period (48 credit points)
Total credit points	144
Credit points full-time sem.	48
Start months	February, July
Int. Start Months	February, July
Course Coordinator	Professor Jay Yang; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor degree (or higher) in engineering or built environment; or

A completed recognised bachelor honours degree (or higher) in any discipline with at least six months (full-time or equivalent) professional project management work experience; or

Successful completion of QUT's [Graduate Certificate of Project Management](#) course.

International Entry requirements

Academic entry requirement

A completed recognised bachelor degree (or higher) in engineering or built environment disciplines; or

A completed recognised bachelor honours degree (or higher) in any discipline with at least six months (full-time or equivalent) professional project management work experience in any discipline. Students applying on the basis of work experience must submit a detailed CV including position details and employment statements; or

Successful completion of QUT's [Graduate Certificate of Project Management](#) course.

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

The QUT Master of Project Management is designed for Project Managers and project management cognate professionals from a wide range of industries; including engineering and the resources sector.

With this course you will gain the advanced discipline knowledge and skills to lead and project manage large and complex projects across multiple industry sectors.

Designed to offer flexible study choices, the course content is available in a variety of blended learning delivery modes including online, face to face on campus and block learning. See the Study Choices information below for more detail on how you can study this course.

Course Design

The MPM is designed around a set of core project management topics that underpin the knowledge required for the more advanced discipline units. The course will provide you with the critical skills to apply advanced knowledge of contemporary project management research and practice, and creatively solve complex project management problems. You will learn to communicate effectively within various social, cultural and professional contexts across and within stakeholder and discipline groups. You will demonstrate leadership, effective management and co-ordination of project teams and be able to work independently, ethically and collaboratively.

The course structure consists of 144 credit points (12 units) arranged as follows:

1) 48 credit points (4 units) of core project management units:

Two of these units should be completed in this order: PMN501 Project Management Essentials 1, in the first half of the semester, followed by PMN502 Project Management Essentials 2 in the second half of the semester.

2) 96 credit points (8 units) of core advanced discipline units:

Your skills and knowledge are developed through the advanced discipline and 'Project Investigation' units and further honed in PMN608 Managing the Project, the capstone unit. PMN608 should be taken in the last semester of study.

Study Choices

You can study PMN501, PMN502, PMN503 and PMN504 in the Master of Project Management internally on campus at Gardens Point or externally Online. When you self-enrol in a unit you must select from the list of attendance modes available that matches how you wish to study that unit. If you select the online study mode for a unit, your studies will all take place electronically, off campus. If you select to study a unit internally, you will be required to attend scheduled classes on campus.

Studying On Campus (Internally)

There are different ways you can study some project management units internally. You will be able to identify which type of internal study is offered when you self-enrol in a unit. If a unit is described as 'Internal' this typically indicates a standard delivery mode where classes will be scheduled each week for the duration of the specified teaching period. If a unit is described as Internal Block Mode, this indicates that it will be delivered in an intensive learning mode, such as whole day or weekend sessions or seminars. Please ensure you check your session dates.

Special Course Requirements

Students wishing to undertake units through online study will require the necessary technology to facilitate this mode of study.

Pathways to Further Study

The QUT Master of Project Management is located at Level 9 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Doctoral level studies.

International Combined Masters Packages

Students admitted to a combined masters pathway (BN87 + PM20 or EN50 + PM20) may progress to their second degree on completion of the first, and are referred to the combined package study plan for their chosen combination, available on the course websites. Separate awards are granted for each degree completed.

Professional Membership

Endorsed by the Australian Institute of Project Management (AIPM).

Domestic Course structure Course Design

The Master of Project Management is designed around a set of core project management topics that underpin the knowledge required for the more advanced discipline units. The course will provide you

Master of Project Management

with the critical skills to apply advanced knowledge of contemporary project management research and practice and creatively solve complex project management problems. You will learn to communicate effectively within various social, cultural and professional contexts across and within stakeholder and discipline groups. You will demonstrate leadership, effective management and co-ordination of project teams and be able to work independently, ethically and collaboratively.

The course structure consists of 144 credit points (12 units) arranged as follows:

1) 48 credit points (4 units) of core project management units:

Two of these units should be completed in this order: PMN501 Project Management Essentials 1, in the first half of the semester, followed by PMN502 Project Management Essentials 2 in the second half of the semester.

2) 96 credit points (8 units) of core advanced discipline units:

Your skills and knowledge are developed through the advanced discipline and 'Project Investigation' units and further honed in PMN608 Managing the Project, the capstone unit. PMN608 should be taken in the last semester of study.

Special Course Requirements

Students wishing to undertake units through online study will require the necessary technology to facilitate this mode of study.

Pathways to Further Study

The QUT Master of Project Management is located at Level 9 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Doctoral level studies.

International Course structure

Course Design

The Master of Project Management is designed around a set of core project management topics that underpin the knowledge required for the more advanced discipline units. The course will provide you with the critical skills to apply advanced knowledge of contemporary project management research and practice and creatively solve complex project management problems. You will learn to communicate effectively within various social, cultural and professional contexts across and within stakeholder and discipline groups. You will demonstrate leadership, effective management and co-ordination of project teams and be able to work independently, ethically and collaboratively.

The course structure consists of 144 credit points (12 units) arranged as follows:

1) 48 credit points (4 units) of core project management units:

Two of these units should be completed in this order: PMN501 Project Management Essentials 1, in the first half of the semester, followed by PMN502 Project Management Essentials 2 in the second half of the semester.

2) 96 credit points (8 units) of core advanced discipline units:

Your skills and knowledge are developed through the advanced discipline and 'Project Investigation' units and further honed in PMN608 Managing the Project, the capstone unit. PMN608 should be taken in the last semester of study.

Special Course Requirements

Students wishing to undertake units through online study will require the necessary technology to facilitate this mode of study.

Pathways to Further Study

The QUT Master of Project Management is located at Level 9 of the Australian Qualifications Framework (AQF). Graduates may be eligible for discipline relevant Doctoral level studies.

Combined masters packages for international students

If you are admitted to either of:

- Master of Engineering and Master of Project Management package
- Master of Engineering Management and Master of Project Management package

you can progress to the second degree on completion of the first.

You will receive an award for each degree completed.

Refer to the combined package course structure of the relevant second year degree for unit details.

Sample Structure

Combined Masters Package: Master of Engineering Management (BN87) plus Master of Project Management (PM20)

If you are admitted to this pathway, once you successfully complete your Master of Engineering Management (BN87) you may progress to the Master of Project Management (PM20). **You will receive 48 credit points (1 semester) of advanced standing in PM20** if you have successfully completed the following units in BN87: ENN541 *Research Methods for Engineers*; ENN591-1 *Project 1*; ENN591-2 *Project 2*; ENN510 *Engineering Knowledge Management*; ENN530 *Asset and Facility Management*; ENN570 *Enterprise Resource Planning and BEN610 Project Management Principles*. Please follow the study plan for your combined package, and refer to the course site for further information regarding your second degree.

Combined Masters Package: Master of Engineering (EN50) plus Master of Project Management (PM20)

If you are admitted to this pathway, once you successfully complete your Master of Engineering (EN50) you may progress to the Master of Project Management (PM20). **You will receive 48 credit points (1 semester) of advanced standing in PM20** if you have successfully completed the following units in EN50: ENN541 *Research Methods for Engineers*; ENN590-1 *Project 1*; ENN590-2 *Project 2*; ENN541 *Research Methods for Engineers*; ENN542 *Statistical and Optimisation Methods for Engineers*; and BEN610 *Project Management Principles*. Please follow the study plan for your combined package, and refer to the course site for further information regarding your second degree.

Semesters

- [Year 1 & Year 2 Program](#)
- [Master of Engineering Management \(BN87\) Combined Masters Study Plan](#)
- [Master of Engineering \(EN50\) Combined Masters Study Plan](#)
- [Master of Project Management \(PM20\) Combined Masters Study Plan](#)

Code	Title
Year 1 & Year 2 Program	
In Year 1, undertake and complete either the BN87 program or the EN50 program below. In Year 2, progress to the PM20 program.	
Master of Engineering Management (BN87) Combined Masters Study Plan	
Year 1, Semester 1	

ENN510	Engineering Knowledge Management
ENN515	Total Quality Management
ENN541	Research Methods for Engineers
ENN590-1	Project 1
Year 1, Semester 2	
BEN610	Project Management Principles
ENN530	Asset and Facility Management
ENN570	Enterprise Resource Planning
ENN590-2	Project 2
Master of Engineering (EN50) Combined Masters Study Plan	
MECHANICAL ENGINEERING MAJOR	
Year 1, Semester 1	
ENN531	Advanced Materials and Engineering Applications
ENN533	Advanced Engineering Design and Maintenance
ENN541	Research Methods for Engineers
ENN590-1	Project 1
Year 1, Semester 2	
BEN610	Project Management Principles
(BEN610 must be selected from the Postgraduate Engineering Unit Options list.)	
ENN542	Statistical and Optimisation Methods for Engineers
ENN552	Solar Thermal Systems - Heat and Power
ENN590-2	Project 2
NETWORKING AND COMMUNICATION MAJOR	
Year 1, Semester 1	
ENN522	Advanced Communication Systems
ENN523	Advanced Network Engineering
ENN541	Research Methods for Engineers
ENN590-1	Project 1
Year 1, Semester 2	
BEN610	Project Management Principles
(BEN610 must be selected from the Postgraduate Engineering Unit Options list.)	
ENN524	Mobile Network Engineering
ENN542	Statistical and Optimisation Methods for Engineers
ENN590-2	Project 2
GENERAL (NO MAJOR)	
BEN610	Project Management Principles
(BEN610 must be selected from the Postgraduate Engineering and Elective Unit Options list.)	
ENN541	Research Methods for Engineers
ENN590-1	Project 1
Postgraduate Engineering Unit Option	
Year 1, Semester 2	
ENN542	Statistical and Optimisation Methods for Engineers
ENN590-2	Project 2
Postgraduate Engineering Unit Option	
Postgraduate Engineering Unit Option	
Master of Project Management (PM20) Combined	

Master of Project Management

Masters Study Plan

Year 2, Semester 1

PMN503	Systems in Project Management
PMN601	Projects and Performance
PMN602	Organisations and Projects
PMN604	Strategy and Projects
Year 2, Semester 1	
PMN605	Strategic Project Procurement
PMN606	Project Investigation 2
PMN607	Strategic Risk Management
PMN608	Managing the Project

Year	2015
QUT code	UD50
CRICOS	060809F
Duration (full-time)	1 year
Duration (part-time)	2 years
Domestic fee (indicative)	2015: \$10,300 per Study Period (48 credit points)
International fee (indicative)	2015: \$13,800 per Study Period (48 credit points)
Total credit points	96
Credit points full-time sem.	48
Course Coordinator	Associate Professor Tan Yigitcanlar; ph: +61 7 3138 8822; email: sef.enquiry@qut.edu.au
Discipline Coordinator	Science and Engineering Faculty 3138 8822 sef.enquiry@qut.edu.au

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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.0

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, UD50 - notwithstanding advanced standing applied for common units, will be required to complete a minimum of 60cp of units to be determined in consultation with the nominated Course Leader, to achieve the second Masters.

Sample Structure

Code	Title
Year 1, Semester 1	
BEN610	Project Management Principles
UDN510	Urban Planning Practice
UDN516	Master Concepts and Ethics Seminar
AMN435	Communication, Negotiation and Leadership
Year 1, Semester 2	
BEN710	Sustainable Practice in Built Environment and Engineering
BEN910	Integrated Project
UDN512	Community Planning

Handbook

Year	2015
QUT code	BN71
CRICOS	007897G
Duration (full-time)	1 year
Duration (part-time domestic)	2 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$13,500 per Study Period (full-time) if you exceed the maximum time under the RTS.
International fee (indicative)	2015: \$15,100 per Study Period (full-time)
Total credit points	
Int. Start Months	Entry is available at any time subject to approval
Course Coordinator	Prior to May 2015: Prof Kunle Oloyede (APD) May 2015 onwards: Prof Christine Bruce (APD)
Discipline Coordinator	Science and Engineering Faculty 3138 2595 sef.research@qut.edu.au

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor honours degree including a major relevant to the intended area of study; or

A completed recognised bachelor degree (or equivalent) including a major relevant to the intended area of study with a minimum grade point average (GPA) score of 5.0 (on QUT's 7 point scale) *and* relevant professional and/ or research experience as determined by Faculty.

Research proposals must be submitted with your application. Proposed research projects are subject to supervisor availability and resources available within the faculty to support the proposed research topic.

Application Guide

Applicants are asked to nominate a supervisor and topic when submitting a formal application. An application is likely to be more successful where a supervisor and topic are well matched.

Applicants should ensure that there is a genuine fit with the potential supervisor's research interests by looking at the interests of the researchers within the relevant school as described on the [QUT Science and Engineering Faculty website](#). Applicants are encouraged to contact the postgraduate research enquiries team for assistance at (sef.research@qut.edu.au)

This contact should include a transcript of academic records, the topic area which you wish to study, the school in which you wish to undertake your research, and if known, the name of a potential supervisor. The HDR Admissions Officer may ask you for further information to assist with your enquiry. The information will be passed onto the nominated (or relevant) school or supervisor.

Faculty Research Contact

Email: sef.research@qut.edu.au

Telephone: +61 7 3138 4783

Level 4, O Podium
Gardens Point Campus, George St, QLD 4000

Application Submission

You can submit an [online application](#) or hardcopy using the [PR Form](#). Hardcopy applications can be emailed to the QUT HDR Admissions Office at (research.enquiries@qut.edu.au). Applications must include all supporting documentations including your detailed research proposal.

International Entry requirements

Academic entry requirement

A completed recognised bachelor honours degree including a major relevant to the intended area of study; or

A completed recognised bachelor degree (or equivalent) including a major relevant to the intended area of study with a minimum grade point average (GPA) score of 5.0 (on QUT's 7 point scale) *and* relevant professional and/ or research experience as determined by Faculty.

Research proposals must be submitted with your application. Proposed research projects are subject to supervisor availability and resources available within the faculty to support the proposed research topic.

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This contact should include a transcript of academic records, the topic area which you wish to study, the school in which you wish to undertake your research, and if known, the name of a potential supervisor. The HDR Admissions Officer may ask you for further information to assist with your enquiry. The information will be passed onto the nominated (or relevant) school or supervisor.

Faculty Research Contact

Email: sef.research@qut.edu.au

Telephone: +61 7 3138 4783

Level 4, O Podium
Gardens Point Campus, George St, QLD 4000

Application Submission

You can submit an application using the [FR Form](#). Applications can be emailed to QUT Admissions (qut.intadmission@qut.edu.au). Applications must include all supporting documentations including your detailed research proposal.

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

Further Information

Science and Engineering Research, Phone: +61 7 3138 2595, Email: sef.research@qut.edu.au

Handbook

Year	2015
QUT code	BN72
CRICOS	003465J
Duration (full-time)	1 year
Duration (part-time domestic)	2 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$13,500 per Study Period (full-time) if you exceed the maximum time under the RTS.
International fee (indicative)	2015: \$15,100 per Study Period (full-time)
Total credit points	
Start months	January, February, March, April, May, June, July, August, September, October, November, December
Int. Start Months	January, February, March, April, May, June, July, August, September, October, November, December
Course Coordinator	Prior to May 2015: Prof Kunle Oloyede (APD) May 2015 onwards: Prof Christine Bruce (APD)
Discipline Coordinator	Science and Engineering Faculty 3138 2595 sef.research@qut.edu.au

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor honours degree including a major relevant to the intended area of study; *or*

A completed recognised four year bachelor degree (or equivalent) including a major relevant to the intended area of study with a minimum grade point average (GPA) score of 5.0 (on QUT's 7 point scale) *and* relevant professional and/ or research experience as determined by Faculty.

Research proposals must be submitted with your application. Proposed research projects are subject to supervisor availability and resources available within the faculty to support the proposed research topic.

Application Guide

Applicants are asked to nominate a supervisor and topic when submitting a formal application. An application is likely to be more successful where a supervisor and topic are well matched.

Applicants should ensure that there is a genuine fit with the potential supervisor's research interests by looking at the interests of the researchers within the relevant school as described on the [QUT Science and Engineering Faculty website](#). Applicants are encouraged to contact the postgraduate research enquiries team for assistance at (sef.research@qut.edu.au)

This contact should include a transcript of academic records, the topic area which you wish to study, the school in which you wish to undertake your research, and if known, the name of a potential supervisor. The HDR Admissions Officer may ask you for further information to assist with your enquiry. The information will be passed onto the nominated (or relevant) school or supervisor.

Faculty Research Contact

Email: sef.research@qut.edu.au

Telephone: +61 7 3138 4783

Level 4, O Podium
Gardens Point Campus, George ST, QLD 4000

Application Submission

You can submit an [online application](#) or hardcopy using the [PR Form](#). Hardcopy applications can be emailed to the QUT HDR Admissions Office at (research.enquiries@qut.edu.au). Applications must include all supporting documentations including your detailed research proposal.

International Entry requirements

Academic entry requirement

A completed recognised bachelor honours degree including a major relevant to the intended area of study; *or*

A completed recognised bachelor degree (or equivalent) including a major relevant to the intended area of study with a minimum grade point average (GPA) score of 5.0 (on QUT's 7 point scale) *and* relevant professional and/ or research experience as determined by Faculty.

Research proposals must be submitted with your application. Proposed research projects are subject to supervisor availability and resources available within the faculty to support the proposed research topic.

Application Guide

Applicants are asked to nominate a supervisor and topic when submitting a formal application. An application is likely to be more successful where a supervisor and topic are well matched.

Applicants should ensure that there is a genuine fit with the potential supervisor's research interests by looking at the interests of the researchers within the relevant school as described on the [QUT Science and Engineering Faculty website](#). Applicants are encouraged to contact the postgraduate research enquiries team for assistance at (sef.research@qut.edu.au)

This contact should include a transcript of academic records, the topic area which you wish to study, the school in which you wish to undertake your research, and if known, the name of a potential supervisor. The HDR Admissions Officer may ask you for further information to assist with your enquiry. The information will be passed onto the nominated (or relevant) school or supervisor.

Faculty Research Contact

Email: sef.research@qut.edu.au

Telephone: +61 7 3138 4783

Level 4, O Podium
Gardens Point, George St, QLD 4000

Application Submission

You can submit an application using the [FR Form](#). Applications can be emailed to QUT Admissions (qut.intadmission@qut.edu.au). Applications must include all supporting documentations including your detailed research proposal.

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 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

Handbook

Year	2015
QUT code	IT60
CRICOS	020309B
Duration (full-time)	1.5 years
Duration (part-time domestic)	3 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$10,400 per Study Period (full-time) if you exceed the maximum time under the RTS.
International fee (indicative)	2015: \$12,600 per Study Period (full-time)
Total credit points	144
Start months	At any time
Int. Start Months	Entry is available at any time subject to approval
Course Coordinator	Professor Richi Nayak. Enquiries to sef.research@qut.edu.au or 07 3138 2595.
Discipline Coordinator	Science and Engineering Faculty 3138 2595 sef.research@qut.edu.au

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor honours degree including a major relevant to the intended area of study; *or*

A completed recognised four year bachelor degree (or equivalent) including a major relevant to the intended area of study with a minimum grade point average (GPA) score of 5.0 (on QUT's 7 point scale) *and* relevant professional and/ or research experience as determined by Faculty.

Research proposals must be submitted with your application. Proposed research projects are subject to supervisor availability and resources available within the faculty to support the proposed research topic.

Application Guide

Applicants are asked to nominate a supervisor and topic when submitting a formal application. An application is likely to be more successful where a supervisor and topic are well matched.

Applicants should ensure that there is a genuine fit with the potential supervisor's research interests by looking at the interests of the researchers within the relevant school as described on the [QUT Science and Engineering Faculty website](#). Applicants are encouraged to contact the postgraduate research enquiries team for assistance at sef.research@qut.edu.au

This contact should include a transcript of academic records, the topic area which you wish to study, the school in which you wish to undertake your research, and if known, the name of a potential supervisor. The HDR Admissions Officer may ask you for further information to assist with your enquiry. The information will be passed onto the nominated (or relevant) school or supervisor.

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Application Submission

You can submit an [online application](#) or hardcopy using the [PR Form](#). Hardcopy applications can be emailed to the QUT HDR Admissions Office at research.enquiries@qut.edu.au. Applications must include all supporting documentations including your detailed research proposal.

International Entry requirements

Academic entry requirement

A completed recognised bachelor honours degree including a major relevant to the intended area of study; *or*

A completed recognised bachelor degree (or equivalent) including a major relevant to the intended area of study with a minimum grade point average (GPA) score of 5.0 (on QUT's 7 point scale) *and* relevant professional and/ or research experience as determined by Faculty.

Research proposals must be submitted with your application. Proposed research projects are subject to supervisor availability and resources available within the faculty to support the proposed research topic.

Application Guide

Applicants are asked to nominate a supervisor and topic when submitting a formal application. An application is likely to be more successful where a supervisor and topic are well matched.

Applicants should ensure that there is a genuine fit with the potential supervisor's research interests by looking at the interests of the researchers within the relevant school as described on the [QUT Science and Engineering Faculty website](#). Applicants are encouraged to contact the postgraduate research enquiries team for assistance at sef.research@qut.edu.au

This contact should include a transcript of academic records, the topic area which you wish to study, the school in which you wish to undertake your research, and if known, the name of a potential supervisor. The HDR Admissions Officer may ask you for further information to assist with your enquiry. The information will be passed onto the nominated (or relevant) school or supervisor.

Faculty Research Contact

Email: sef.research@qut.edu.au

Telephone: +61 7 3138 4783

Level 4, O Podium
Gardens Point Campus, George St, QLD 4000

Application Submission

You can submit an application using the [FR Form](#). Applications can be emailed to QUT Admissions (qut.intadmission@qut.edu.au). Applications must include all supporting documentations including your detailed research proposal.

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

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.

Master of Information Technology (Research)

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.

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.

Getting started

Choose a topic

Step 1: Identify your discipline:

- [Biogeoscience](#)
- [Cell and molecular biosciences](#)
- [Chemistry](#)
- [Information systems](#)
- [Computer science](#)
- [Mathematical sciences](#)
- [Medical radiation sciences](#)
- [Medical sciences](#)
- [Pharmacy](#)
- [Physics](#)

Step 2 Choose a theme from:

- [Food](#)
- [Energy](#)
- [Health](#)
- [Environment](#)
- [Security](#)
- [Information](#)

Step 3 Contact Science and Technology's [research degree coordinator](#).

QUT researchers are available to discuss your topic with you to ensure it has the right scope and scale for your preferred research degree. There are also opportunities for you to align your interests with QUT's major ongoing research programs. Explore [research topics](#)

Find a supervisor

Connecting with a supervisor for your project is of vital importance. [Finding a supervisor](#)

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

Code	Title
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Full-time Course Structure

A program of research and investigation developed in conjunction with the Principal

Supervisor and approved by the Faculty Research Committee (Workload equivalent to 48 credit points per semester)

Part-time Course Structure

A program of research and investigation developed in conjunction with the Principal

Supervisor and approved by the Faculty Research Committee (Workload equivalent to 24 credit points per semester)

Handbook

Year	2015
QUT code	SC80
CRICOS	007897G
Duration (full-time)	2 years
Duration (part-time domestic)	4 years
Campus	Gardens Point
Domestic fee (indicative)	2015: \$12,900 per Study Period (full-time) if you exceed the maximum time under the RTS.
International fee (indicative)	2015: \$14,600 per Study Period (full-time)
Total credit points	144
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	January, February, March, April, May, June, July, August, September, October, November, December
Int. Start Months	January, February, March, April, May, June, July, August, September, October, November, December
Course Coordinator	Prior to May 2015: Prof Kunle Oloyede (APD) May 2015 onwards: Prof Christine Bruce (APD)
Discipline Coordinator	Science and Engineering Faculty 3138 2595 sef.research@qut.edu.au

Domestic Entry requirements

Academic entry requirement

A completed recognised bachelor honours degree including a major relevant to the intended area of study; *or*

A completed recognised bachelor degree (or equivalent) including a major relevant to the intended area of study with a minimum grade point average (GPA) score of 5.0 (on QUT's 7 point scale) *and* relevant professional and/ or research experience as determined by Faculty.

Research proposals must be submitted with your application. Proposed research projects are subject to supervisor availability and resources available within the faculty to support the proposed research topic.

Application Guide

Applicants are asked to nominate a supervisor and topic when submitting a formal application. An application is likely to be more successful where a supervisor and topic are well matched.

Applicants should ensure that there is a genuine fit with the potential supervisor's research interests by looking at the interests of the researchers within the relevant school as described on the [QUT Science and Engineering Faculty website](#). Applicants are encouraged to contact the postgraduate research enquiries team for assistance at (sef.research@qut.edu.au)

This contact should include a transcript of academic records, the topic area which you wish to study, the school in which you wish to undertake your research, and if known, the name of a potential supervisor. The HDR Admissions Officer may ask you for further information to assist with your enquiry. The information will be passed onto the nominated (or relevant) school or supervisor.

Faculty Research Contact

Email: sef.research@qut.edu.au

Telephone: +61 7 3138 4783

Level 4, O Podium

Gardens Point Campus, George St, QLD 4000

Application Submission

You can submit an [online application](#) or hardcopy using the [PR Form](#). Hardcopy applications can be emailed to the QUT HDR Admissions Office at (research.enquiries@qut.edu.au). Applications must include all supporting documentations including your detailed research proposal.

International Entry requirements

Academic entry requirement

A completed recognised bachelor honours degree including a major relevant to the intended area of study; *or*

A completed recognised bachelor degree (or equivalent) including a major relevant to the intended area of study with a minimum grade point average (GPA) score of 5.0 (on QUT's 7 point scale) *and* relevant professional and/ or research experience as determined by Faculty.

Research proposals must be submitted with your application. Proposed research projects are subject to supervisor availability and resources available within the faculty to support the proposed research topic.

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Faculty Research Contact

Email: sef.research@qut.edu.au

Telephone: +61 7 3138 4783

Level 4, O Podium

Gardens Point Campus, George St, QLD 4000

Application Submission

You can submit an application using the [FR Form](#). Applications can be emailed to QUT Admissions (qut.intadmission@qut.edu.au). Applications must include all supporting documentations including your detailed research proposal.

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

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.

Master of Applied Science (Research)

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.

and alternative unit(s) approved by the Medical Radiation Sciences coordinator

Code	Title
Unit List	
PCN715	Advanced Topics in Physics 1
PCN716	Advanced Topics in Physics 2
and/or alternative unit(s) approved by the Physics coordinator	

Overview

The objectives of this course are to:

Sample Structure

Code	Title
Unit List	
PCN701	Topics in Advanced Chemistry 1
PCN801	Topics in Advanced Chemistry 2

Code	Title
Unit List	
Essential units:	
NRN100	Readings in Natural Resource Sciences 1
NRN102	Confirmation of Candidature Seminar
NRN103	Final Seminar
Select up to one of the following units if required:	
NRN101	Readings in Natural Resource Sciences 2
NRN104	Advanced Topics in Natural Resource Sciences 1
NRN105	Advanced Topics in Natural Resource Sciences 2

Code	Title
Unit List	
LSN011	Research Seminars in Life Science 1
LSN013	Readings in Life Science 3
LSN023	Research Seminars in Life Science 3

Code	Title
Course Notes	
Selections from other School programs, such as MA75 Graduate Diploma in Mathematical Science and MA85 Master of Mathematical Science, to a maximum of 60 credit points	

Code	Title
Unit List	
PCN718	Advanced Topics in Medical Radiation Sciences 1
PCN719	Advanced Topics in Medical Radiation Sciences 2

Handbook

Year	2015
QUT code	IF49
CRICOS	006367J
Campus	Gardens Point
Domestic fee (indicative)	2015: \$13,670 per Study Period (full-time) if you exceed the maximum time under the RTS.
International fee (indicative)	2015: \$15,200 per Study Period (full-time)
Total credit points	
Credit points full-time sem.	48
Credit points part-time sem.	24
Start months	Entry is available at any time subject to approval.
Int. Start Months	Entry is available at any time subject to approval.
Course Coordinator	Enquiries to edn.research@qut.edu.au or 07 3138 3041.
Discipline Coordinator	Science and Engineering Faculty 3138 2595 sef.research@qut.edu.au

Domestic Entry requirements

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

International Entry requirements

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

Financial Guarantee

Acceptable forms of evidence include:

- A letter from an approved employer confirming the continuation of your salary; or
- A signed Scholarship Agreement between QUT and your sponsoring agency; or
- An accepted letter of offer from QUT for a postgraduate research scholarship; or
- An approved external scholarship.

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

The Doctor of Philosophy (PhD) offers the opportunity to work with an experienced supervisory research team to make a significant and original contribution to disciplinary knowledge. A PhD candidate's research must reveal high critical ability and powers of imagination and synthesis and may be, depending on discipline, demonstrated in the form of new

knowledge or significant and original adaptation, application and interpretation of existing knowledge. This world-class program provides a basis for critical inquiry and welcomes collaborative and interdisciplinary research projects. A QUT PhD graduate will be equipped to seek employment in industry, research organisations and universities.

Entry requirements

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

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 requires International applicants to meet an IELTS overall band score 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; OR
- A signed Scholarship Agreement between QUT and your sponsoring agency; OR
- An accepted letter of offer from QUT for a postgraduate research scholarship; OR
- An approved external scholarship.

Location & duration

The expected duration of the Doctor of Philosophy is three to four years full-time, or six to eight years part-time. Full-time study is normally conducted on-campus at QUT. Part-time and external study options may be available depending on the project, infrastructure requirements and funding arrangements. Although QUT offers this flexibility, candidates must meet minimum attendance requirements and the university must be satisfied that adequate supervision and resources are available.

International student visas require on-campus study to be completed full-time.

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.

Fees

Australian citizens and permanent residents will be awarded a Research Training Scheme (RTS) place. Domestic students are not required to apply for an RTS entitlement, as it will be automatically allocated. The RTS covers tuition fees but not other study related costs. PhD Students are entitled to four years full-time equivalent study under these schemes. Students who exceed this entitlement may apply to QUT for extension, however the University may charge fees for the period of the program, which exceeds the student's entitlement. The University determines the fee level for domestic and international students.

Further Information

For further information about this course, please contact:

Research Students Centre
Phone: +61 7 3138 4475, Email:
research.enrolment@qut.edu.au

Science and Engineering Faculty
Professor Chris Langton
Assistant Dean - Research
Phone: +61 7 3138 2595
Email: sef.research@qut.edu.au

Domestic Course structure

Course design

Mandatory

- IFN001 Advanced Information Retrieval Skills
- Time based Thesis

Other units as agreed by student in negotiation with their supervisor and faculty.

International Course structure

Course design

Mandatory

- IFN001 Advanced Information Retrieval Skills
- Time based Thesis

Other units as agreed by student in negotiation with their supervisor and faculty.

Handbook

Year	2015
QUT code	IT81
CRICOS	063035A
Duration (full-time)	3 years
Duration (part-time domestic)	6 years
Campus	Gardens Point
Domestic fee (indicative)	Research Training Scheme funded. Tuition fees may apply for exceeding maximum time - 2015: \$8,500 per Study Period (full-time)
International fee (indicative)	2015: \$12,700 per Study Period (full-time)
Total credit points	288
Start months	February, July, November
Int. Start Months	February, July, November
Course Coordinator	Associate Professor Richi Nayak; email: sef.research@qut.edu.au; ph: 3138 2595
Discipline Coordinator	

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.

International 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
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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.

IELTS (International English Language Testing System)	
Speaking	6.0
Writing	6.0
Reading	6.0
Listening	6.0
Overall	6.5

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

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Sample Structure Semesters

- [Notes](#)
- [Year 1, Semester 1](#)
- [Year 1, Semester 2](#)
- [Year 2 to Year 3](#)
- [Computer Science](#)
- [Information Systems](#)

Code	Title
Notes	
This is an indicative course structure only. Students should discuss their program with the Course Coordinator.	
Year 1, Semester 1	
PG coursework elective unit	
PG coursework elective unit	
PG coursework elective unit	
INN690	Minor Project 1
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.	
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.	
Year 1, Semester 2	
INN700	Introduction To Research
A literature review of the related theory.	
INN691	Minor Project 2
A literature review of the relevant research methods and approaches that may be of use.	
INN701	Advanced Research Topics
A pilot study of the selected theory and method to a subset of the problem in order to test the efficacy of	

Doctor of Information Technology

the methods and theories selected.

INN692	Minor Project 3
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Students construct an integrated research proposal.

Year 2 to Year 3

Computer Science

IFT821	Thesis
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Information Systems

IFT822	Thesis
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Handbook

Year	2015
QUT code	U0TEST
CRICOS	050639B
Duration (full-time international)	6 months
International fee (indicative)	There are no tuition fees payable to QUT for the Exchange Year Program.
Total credit points	96
Course Coordinator	Nicole Patterson Manager, International Student Mobility Email: stae@qut.edu.au
Discipline Coordinator	

Minimum English requirements

Students must meet the English proficiency requirements.

International Course structure

Units are subject to availability, faculties hold the final decision on students eligibility to the pre-approved units.