Faculty of Science and Technology

University Diploma

IT10 University Diploma in Information Technology

Bachelor Degree

IT04 Bachelor of Games and Interactive Entertainment

IT04 Bachelor of Games and Interactive Entertainment - Dean's Scholars Program

IT06 Bachelor of Corporate Systems Management

IT06 Bachelor of Corporate Systems Management - Dean's Scholars Program

IT21 Bachelor of Information Technology

IT22 Bachelor of Information Technology

IT22 Bachelor of Information Technology - Dean's Scholars Program

IT23 Bachelor of Information Technology

IT23 Bachelor of Information Technology - Dean's Scholars Program

IX25 Bachelor of Engineering (Software Engineering)

LS37 Bachelor of Applied Science (Medical Science)

LS50 Bachelor of Biotechnology Innovation

MA54 Bachelor of Mathematics

MA54 + SC60 Bachelor of Mathematics & Bachelor of Applied Science (Honours) - Dean's Scholars Honours Program

PH38 Bachelor of Applied Science - Medical Radiation Technology (Medical Imaging Technology)

PH38 Bachelor of Applied Science - Medical Radiation Technology (Radiotherapy Technology)

SC01 Bachelor of Applied Science

SC01 + SC60 Bachelor of Applied Science & Bachelor of Applied Science (Honours) - Dean's Scholars Accelerated Honours Program

SC40 Bachelor of Biomedical Science

SC45 Bachelor of Pharmacy

ST30 Bachelor of Medical Imaging Science

ST31 Bachelor of Radiation Therapy

ST50 Bachelor of Technology Innovation

ST50 Bachelor of Technology Innovation (Biochemistry)

ST50 Bachelor of Technology Innovation (Biomedical Science)

ST50 Bachelor of Technology Innovation (Biotechnology)

ST50 Bachelor of Technology Innovation (Chemistry)

ST50 Bachelor of Technology Innovation (Digital Media)

ST50 Bachelor of Technology Innovation (Ecology)

ST50 Bachelor of Technology Innovation (Environmental Science)

ST50 Bachelor of Technology Innovation (Forensic Science)

ST50 Bachelor of Technology Innovation (Games Technology)

ST50 Bachelor of Technology Innovation (Geoscience)

ST50 Bachelor of Technology Innovation (Information Technology)

ST50 Bachelor of Technology Innovation (Microbiology)

ST50 Bachelor of Technology Innovation (Physics)

Bachelor Degree (Double)

IF21 Bachelor of Engineering (Electrical)/ Bachelor of Mathematics

IF38 Bachelor of Information Technology/Bachelor of Laws

IF48 Bachelor of Business / Bachelor of Information Technology

IF58 Bachelor of Mathematics/Bachelor of Information Technology

IF59 Bachelor of Engineering (Electrical)/Bachelor of Information Technology

IF61 Bachelor of Applied Science/Bachelor of Business

IF86 Bachelor of Arts/Bachelor of Applied Science

IT07 Bachelor of Corporate Systems Management/Bachelor of Information Technology

IT08 Bachelor of Corporate Systems Management/Bachelor of Information Technology

IT09 Bachelor of Corporate Systems Management/Bachelor of Games and Interactive Entertainment

IX02 Bachelor of Applied Science/Bachelor of Education (Secondary)

IX14 Bachelor of Applied Science/Bachelor of Education (Primary)

IX26 Bachelor of Applied Science/Bachelor of Information Technology

IX27 Bachelor of Creative Industries / Bachelor of Information Technology

IX29 Bachelor of Information Technology/Bachelor of Mathematics

IX31 Bachelor of Applied Science / Bachelor of Business

IX33 Bachelor of Business/Bachelor of Information Technology

IX37 Bachelor of Business / Bachelor of Mathematics

IX49 Bachelor of Arts/Bachelor of Information Technology

IX53 Bachelor of Information Technology/Bachelor of Laws

IX54 Bachelor of Engineering (Electrical)/Bachelor of Information Technology

IX55 Bachelor of Applied Science(Study Area A)/Bachelor of Information Technology

IX56 Bachelor of Creative Industries/Bachelor of Information Technology

IX57 Bachelor of Information Technology/Bachelor of Mathematics

IX58 Bachelor of Business (Study Area A)/ Bachelor of Information Technology

IX61 Bachelor of Corporate Systems Management/Bachelor of Justice

IX62 Bachelor of Business / Bachelor of Corporate Systems Management

IX63 Bachelor of Business/Bachelor of Games and Interactive Entertainment

IX64 Bachelor of Games and Interactive Entertainment/Bachelor of Mathematics

IX65 Bachelor of Applied Science/Bachelor of Games and Interactive Entertainment

IX69 Bachelor of Fine Arts (Interactive and Visual Design) / Bachelor of Information Technology

IX72 Bachelor of Applied Science / Bachelor of Laws

SC20 Bachelor of Applied Science/Bachelor of Mathematics

Honours

IT04 Bachelor of Games and Interactive Entertainment - Dean's Scholars Program

IT06 Bachelor of Corporate Systems Management - Dean's Scholars Program

IT22 Bachelor of Information Technology - Dean's Scholars Program

IT28 Bachelor of Information Technology (Honours)

IT29 Bachelor of Information Technology (Honours) - Accelerated Program

MA54 + SC60 Bachelor of Mathematics & Bachelor of Applied Science (Honours) - Dean's Scholars Honours Program

SC01 + SC60 Bachelor of Applied Science & Bachelor of Applied Science (Honours) - Dean's Scholars Accelerated Honours Program

SC60 Bachelor of Applied Science (Honours)

Graduate Certificate

IT85 Graduate Certificate in Information Technology

IT90 Graduate Certificate in Information Technology (Computer Networks)

IT92 Graduate Certificate in Information Technology (Information Security)

IT93 Graduate Certificate in Information Technology (Enterprise Wide Software)

IT94 Graduate Certificate in Information Technology (Electronic Commerce)

IT95 Graduate Certificate in Information Technology (Project)

IT96 Graduate Certificate in Information Technology (Information Technology Management)

IT97 Graduate Certificate in Information Technology (Generic)

IT98 Graduate Certificate in Information Technology (Multimedia)

IT99 Graduate Certificate in Information Technology (Component Software and Web Services)

IX97 Graduate Certificate in Research Commercialisation

LS66 Graduate Certificate in Biotechnology

MA65 Graduate Certificate in Mathematical Science

PH60 Graduate Certificate in Applied Science (Breast Ultrasound)

PH62 Graduate Certificate in Lighting (on-shore)

Graduate Diploma

IT35 Graduate Diploma in Information Technology (IT Graduates)

IT37 Graduate Diploma In Information Technology

IT38 Graduate Diploma in Information Technology (Non-IT Graduates)

LS76 Graduate Diploma in Biotechnology

MA75 Graduate Diploma in Mathematical Science

PH71 Graduate Diploma in Applied Science (Medical Physics)

PH71 Graduate Diploma in Applied Science (Medical Ultrasound)

PH72 Graduate Diploma in Lighting (on-shore)

PH73 Graduate Diploma in Lighting (off-shore)

PH75 Graduate Diploma in Cardiac Ultrasound

SC71 Graduate Diploma in Applied Science

Masters Degree (Coursework)

IT40 Master of Information Technology (IT Graduates)

IT43 Master of Information Technology

IT43 Master of Information Technology

IT43 Master of Information Technology (Games Design)

IT43 Master of Information Technology (Games Production)

IT43 Master of Information Technology (Information Management)

IT43 Master of Information Technology (Library and Information Science)

IT43 Master of Information Technology (Network Management)

IT43 Master of Information Technology (Security)

IT43 Master of Information Technology (Software Architecture)

IT44 Master of Information Technology (Advanced)

IT44 Master of Information Technology (Advanced)

IT44 Master of Information Technology (Advanced) (Digital Environments)

IT44 Master of Information Technology (Advanced) (Enterprise Systems)

IT44 Master of Information Technology (Advanced) (Executive Information Practice)

IT44 Master of Information Technology (Advanced) (Games Design)

IT44 Master of Information Technology (Advanced) (Games Production)

IT44 Master of Information Technology (Advanced) (Information Management)

IT44 Master of Information Technology (Advanced) (Library and Information Science)

IT44 Master of Information Technology (Advanced) (Network Management)

IT44 Master of Information Technology (Advanced) (Security)

IT44 Master of Information Technology (Advanced) (Software Architecture)

IT45 Master of Information Technology (Non-IT Graduates)

IT48 Master of Information Technology (Advanced)

IT53 Master of Business Process Management

IT70 Master of Information Management(refer to IT43)

IX99 Master of Research and Development Management

LS86 Master of Biotechnology

LS96 Master of Biotechnology (Advanced)

MA85 Master of Mathematical Science

PH80 Master of Applied Science (Medical Physics)

PH80 Master of Applied Science (Medical Ultrasound)

PH82 Master of Lighting (on-shore)

PH83 Master of Lighting (off-shore)

PH85 Master of Cardiac Ultrasound

Masters Degree (Research)

IT60 Master of Information Technology (Research)

SC80 Master of Applied Science (Research)

Doctoral

IF49 Doctor of Philosophy (Information Technology)

IF49 Doctor of Philosophy (Mathematics)

IF49 Doctor of Philosophy (Science)

IT80 Doctor of Information Technology

IT81 Doctor of Information Technology

Foundation Programs

QC01 Accelerated Foundation

QC02 Standard Foundation

QC04 Extended Foundation

University Certificate

QC05 University Certificate In Tertiary Preparation

Study Abroad (Non-degree)

U080 University Study Abroad Certificate

University wide minors

Accounting, Economics and Finance

Advertising, Integrated Marketing Communication, Logistics, Marketing and Public Relations

Built Environment and Design

Communication

Creative Industries

Engineering

Entertainment

Entrepreneurship, Human Resource Management and Management

Faculty of Health

International Business, Languages, and Tourism and Entertainment Marketing

International Exchange

Justice and Law

Mathematical Sciences

Multimedia and Technologies

Natural Resource Sciences

Unit sets: Physical and Chemical Sciences

Unit sets: Science

Society and Culture

Urban Development and Construction

English Programs (International)

QC10 English for Academic Purposes for Degree programs

QC10 English for Academic Purposes for Foundation and University Diploma Programs

QC22 English for Tertiary Preparation

QC24 English For Academic Purposes Plus

QE05 General English Program (5 Weeks)

QE10 General English Program (10 Weeks)

QE15 General English Program (15 weeks)

QE20 General English Program (20 Weeks)

QE25 General English Program (25 Weeks)

QE30 General English Program (30 Weeks)

QE35 General English Program (35 Weeks)

QE40 General English Program (40 Weeks)

QE45 General English Program (45 Weeks)

Bachelor of Engineering (Electrical)/ Bachelor of Mathematics (IF21)

Year offered: 2011
Admissions: Yes
CRICOS code: 020329J
Course duration (full-time): 5 years
Domestic fees (indicative): 2011: CSP $2,883 (indicative) per semester
International Fees (indicative): 2011: $11,875 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419572
Past rank cut-off: 81
Past OP cut-off: 10
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 480
Standard credit points per full-time semester: 48
Course coordinator: Dr R.Mahalinga-Iyer (Engineering); Professor Helen MacGillivray (Science & Technology)
Discipline coordinator: Dr Bouchra Senadji (Engineering); Professor Helen MacGillivray (Mathematics Major)
Campus: Gardens Point

Overview

Mathematics and engineering have always had close connections, but recent advancements in mathematics and statistics are increasingly being used to help solve complex engineering problems.

Electrical and computer engineers design, install and maintain electrical, electronic, telecommunications and computing systems on behalf of government and private companies. A stronger training in mathematics and statistics enhances capabilities in modelling, analysis and design.

Career Outcomes

Career outcomes for engineering/mathematics double degree students include working in the power industry, robotics, manufacturing and mining. Career opportunities are also found in the telecommunications industry, transport sector, computer industry and transmission industries.

Professional Recognition

This course meets the requirements for membership of Engineers Australia (EA). EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world. The course also meets the coursework requirements for accredited graduate membership of the Australian Mathematical Society. You may also become a member of the Statistical Society of Australia.

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.

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.

Recommended study

Chemistry, Maths C and Physics.

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).

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 on deferment.

Further Information

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

Engineering Coordinator
Dr Bouchra Senadji
Phone: 3138 8228
Email: bee.enquiries@qut.com

Science & Technology Coordinator
Professor Helen MacGillivray
Phone: +61 7 3138 2337
Email: h.macgillivray@qut.edu.au

Course structure - For students commencing in 2011 (Maths B only)

For students with four semesters of Senior Mathematics B (or equivalent) only, with an exit assessment of at least Sound Achievement.

Year 1, Semester 1	
ENB100	Engineering and Sustainability
ENB130	Mechanical and Thermal Energy
MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus

Year 1, Semester 2	
ENB200	Introducing Engineering Systems
ENB120	Electrical Energy and Measurements
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry

Year 2, Semester 1	
ENB110	Engineering Statics and Materials

ENB250	Electrical Circuits
MAB220	Computational Mathematics 1
MAB311	Advanced Calculus

Year 2, Semester 2

ENB150	Introducing Engineering Design
MAB210	Statistical Modelling 1
MAB413	Differential Equations
	Mathematics Elective (Level 2)

Year 3, Semester 1

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2

ENB242	Introduction To Telecommunications
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice

Year 4, Semester 1

ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
	Mathematics Elective (Level 3)

Year 4, Semester 2

ENB345	Advanced Design and Professional Practice
MAB414	Applied Statistics 2
	Mathematics Elective (Level 3)
	Mathematics Elective (Level 3)

Year 5, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
ENB241	Software Systems Design
	OR Electrical Engineering Selective
ENB346	Digital Communications

Year 5, Semester 2

BEB802	Project 2
ENB344	Industrial Electronics
	Electrical Engineering Selective
	Mathematics Elective (Level 3)

Electrical Engineering Selectives

ENB339	Introduction to Robotics
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis

ENB453	Power Equipment and Utilisation
ENB456	Energy
ENB457	Controls, Systems and Applications
ENB458	Modern Control Systems

Course structure - For students commencing in 2011 (Maths B and Maths C)

For students with four semesters of both Senior Mathematics B and Senior Mathematics C (or equivalent) with an exit assessment of at least Sound Achievement in both subjects.

Year 1, Semester 1

ENB100	Engineering and Sustainability
ENB130	Mechanical and Thermal Energy
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry

Year 1, Semester 2

ENB200	Introducing Engineering Systems
ENB120	Electrical Energy and Measurements
MAB101	Statistical Data Analysis 1
MAB220	Computational Mathematics 1

Year 2, Semester 1

ENB110	Engineering Statics and Materials
ENB250	Electrical Circuits
MAB210	Statistical Modelling 1
MAB311	Advanced Calculus

Year 2, Semester 2

ENB150	Introducing Engineering Design
MAB413	Differential Equations
	Mathematics Elective (Level 2)
	Mathematics Elective (Level 2)

Year 3, Semester 1

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2

ENB242	Introduction To Telecommunications
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice

Year 4, Semester 1

| ENB241 | Software Systems Design |
| | OR Electrical Engineering Selective |

ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms

Year 4, Semester 2

ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
MAB414	Applied Statistics 2
	Mathematics Elective (Level 3)

Year 5, Semester 1

BEB801	Project 1
ENB346	Digital Communications
	Mathematics Elective (Level 3)
	Mathematics Elective (Level 3)

Year 5, Semester 2

BEB701	Work Integrated Learning 1
BEB802	Project 2
	Electrical Engineering Selective
	Mathematics Elective (Level 3)

Electrical Engineering Selectives

ENB339	Introduction to Robotics
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB456	Energy
ENB457	Controls, Systems and Applications
ENB458	Modern Control Systems

Mathematics Electives (Level 2)

Select 2 units:

MAB313	Mathematics of Finance
MAB420	Computational Mathematics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation
MAB315	Operations Research 2

Mathematics Electives (Level 3)

Select two units:

MAB521	Applied Mathematics 3
MAB522	Computational Mathematics 3
MAB524	Statistical Inference
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB536	Time Series Analysis
MAB613	Partial Differential Equations

MAB623	Financial Mathematics
MAB624	Applied Statistics 3
MAB625	Operations Research 3B
MAB672	Advanced Mathematical Modelling

NOTES:

- Some deviations from the above course structure may be possible with the permission of the course coordinator. This is more likely to apply in the later years than the earlier years of the course.

Course structure - For students commencing in 2010 (Maths B only)

For students with four semesters of Senior Mathematics B (or equivalent) only, with an exit assessment of at least Sound Achievement.

Year 1, Semester 1

ENB100	Engineering and Sustainability
ENB120	Electrical Energy and Measurements
MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus

Year 1, Semester 2

ENB200	Introducing Engineering Systems
ENB130	Mechanical and Thermal Energy
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry

Year 2, Semester 1

ENB110	Engineering Statics and Materials
ENB250	Electrical Circuits
MAB220	Computational Mathematics 1
MAB311	Advanced Calculus

Year 2, Semester 2

ENB150	Introducing Engineering Design
MAB210	Statistical Modelling 1
MAB413	Differential Equations
	Mathematics Elective (Level 2)

Year 3, Semester 1

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2

ENB242	Introduction To Telecommunications
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional

Practice

Year 4, Semester 1

ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
	Mathematics Elective (Level 3)

Year 4, Semester 2

ENB345	Advanced Design and Professional Practice
MAB414	Applied Statistics 2
	Mathematics Elective (Level 3)
	Mathematics Elective (Level 3)

Year 5, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
ENB241	Software Systems Design
	OR Electrical Engineering Selective
ENB346	Digital Communications

Year 5, Semester 2

BEB802	Project 2
ENB344	Industrial Electronics
	Electrical Engineering Selective
	Mathematics Elective (Level 3)

Electrical Engineering Selectives

ENB339	Introduction to Robotics
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB456	Energy
ENB457	Controls, Systems and Applications
ENB458	Modern Control Systems

Course structure - For students commencing in 2009 (Maths B only)

For students with four semesters of Senior Mathematics B (or equivalent) only, with an exit assessment of at least Sound Achievement.

Year 1, Semester 1

BEB100	Introducing Professional Learning
MAB100	Mathematical Sciences 1A
MAB101	Statistical Data Analysis 1
PCB136	Engineering Physics 1C

Year 1, Semester 2

ENB101	Engineering Mechanics 1
ENB103	Electrical Engineering

MAB111	Mathematical Sciences 1B
MAB112	Mathematical Sciences 1C

Year 2, Semester 1

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB220	Computational Mathematics 1
MAB311	Advanced Calculus

Year 2, Semester 2

ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
MAB210	Statistical Modelling 1
MAB413	Differential Equations

Year 3, Semester 1

ENB242	Introduction To Telecommunications
ENB350	Real-time Computer-based Systems
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2

BEB200	Introducing Sustainability
ENB245	Introduction To Design and Professional Practice
ENB352	Communication Environments For Embedded Systems
MAB414	Applied Statistics 2

Year 4, Semester 1

ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
	Mathematics elective (Level 2)

Year 4, Semester 2

ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
ENB458	Modern Control Systems
	Mathematics elective (Level 3)

Year 5, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
	Electrical Engineering Selective
	Mathematics elective (Level 3)

Year 5, Semester 2

BEB802	Project 2
ENB344	Industrial Electronics
	Mathematics elective (Level 3)
	Mathematics elective (Level 3)

Electrical Engineering Selectives

ENB339	Introduction to Robotics
ENB440	RF Techniques and Modern Applications
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
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
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

Course structure - For students commencing in 2007 & 2008 (Maths B only)

For students with four semesters of Senior Mathematics B (or equivalent) only, with an exit assessment of at least Sound Achievement.

Year 1, Semester 1

BEB100	Introducing Professional Learning
MAB100	Mathematical Sciences 1A
MAB101	Statistical Data Analysis 1
PCB136	Engineering Physics 1C

Year 1, Semester 2

ENB101	Engineering Mechanics 1
ENB103	Electrical Engineering
MAB111	Mathematical Sciences 1B
MAB112	Mathematical Sciences 1C

Year 2, Semester 1

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB220	Computational Mathematics 1
MAB311	Advanced Calculus

Year 2, Semester 2

ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
MAB210	Statistical Modelling 1
MAB413	Differential Equations

Year 3, Semester 1

ENB242	Introduction To Telecommunications
ENB350	Real-time Computer-based Systems
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2

ENB245	Introduction To Design and Professional Practice
ENB352	Communication Environments For Embedded Systems
MAB414	Applied Statistics 2
	Mathematics elective (Level 2)

Year 4, Semester 1

ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
	Mathematics elective (Level 2)

Year 4, Semester 2

ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
ENB458	Modern Control Systems
	Mathematics elective (Level 3)

Year 5, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
	Electrical Engineering Selective
	Mathematics elective (Level 3)

Year 5, Semester 2

BEB802	Project 2
ENB344	Industrial Electronics
	Mathematics elective (Level 3)
	Mathematics elective (Level 3)

Electrical Engineering Selectives

ENB339	Introduction to Robotics
ENB440	RF Techniques and Modern Applications
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
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
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

Course structure - For students commencing in 2006

(Maths B only)

For students with four semesters of Senior Mathematics B (or equivalent) only, with an exit assessment of at least Sound Achievement.

Year 1, Semester 1

BEB100	Introducing Professional Learning
MAB100	Mathematical Sciences 1A
MAB101	Statistical Data Analysis 1
PCB136	Engineering Physics 1C

Year 1, Semester 2

ENB101	Engineering Mechanics 1
ENB103	Electrical Engineering
MAB111	Mathematical Sciences 1B
MAB112	Mathematical Sciences 1C

Year 2, Semester 1

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB220	Computational Mathematics 1
MAB311	Advanced Calculus

Year 2, Semester 2

ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
MAB210	Statistical Modelling 1
MAB413	Differential Equations

Year 3, Semester 1

ENB242	Introduction To Telecommunications
ENB350	Real-time Computer-based Systems
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2

ENB245	Introduction To Design and Professional Practice
ENB352	Communication Environments For Embedded Systems
MAB420	Computational Mathematics 2
MAB480	Introduction to Scientific Computation
	OR
	Computing Elective

Year 4, Semester 1

ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
	Mathematics elective (Level 2)

Year 4, Semester 2

ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
ENB458	Modern Control Systems
	Mathematics elective (Level 3)

Year 5, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
	Electrical Engineering Selective
	Mathematics elective (Level 3)

Year 5, Semester 2

BEB802	Project 2
ENB344	Industrial Electronics
	Mathematics elective (Level 3)
	Mathematics elective (Level 3)

Electrical Engineering Selectives

ENB440	RF Techniques and Modern Applications
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
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
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

Course structure - For students commencing in 2010 (Maths B and Maths C)

For students with four semesters of both Senior Mathematics B and Senior Mathematics C (or equivalent) with an exit assessment of at least Sound Achievement in both subjects.

Year 1, Semester 1

ENB100	Engineering and Sustainability
ENB120	Electrical Energy and Measurements
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry

Year 1, Semester 2

ENB200	Introducing Engineering Systems
ENB130	Mechanical and Thermal Energy
MAB101	Statistical Data Analysis 1

FACULTY OF SCIENCE AND TECHNOLOGY

MAB220	Computational Mathematics 1

Year 2, Semester 1

ENB110	Engineering Statics and Materials
ENB250	Electrical Circuits
MAB210	Statistical Modelling 1
MAB311	Advanced Calculus

Year 2, Semester 2

ENB150	Introducing Engineering Design
MAB413	Differential Equations
	Mathematics Elective (Level 2)
	Mathematics Elective (Level 2)

Year 3, Semester 1

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2

ENB242	Introduction To Telecommunications
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice

Year 4, Semester 1

ENB241	Software Systems Design
	OR Electrical Engineering Selective
ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms

Year 4, Semester 2

ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
MAB414	Applied Statistics 2
	Mathematics Elective (Level 3)

Year 5, Semester 1

BEB801	Project 1
ENB346	Digital Communications
	Mathematics Elective (Level 3)
	Mathematics Elective (Level 3)

Year 5, Semester 2

BEB701	Work Integrated Learning 1
BEB802	Project 2
	Electrical Engineering Selective
	Mathematics Elective (Level 3)

Electrical Engineering Selectives

ENB339	Introduction to Robotics
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB456	Energy
ENB457	Controls, Systems and Applications
ENB458	Modern Control Systems

Course structure - For students commencing in 2009 (Maths B and Maths C)

For students with four semesters of both Senior Mathematics B and Senior Mathematics C (or equivalent) with an exit assessment of at least Sound Achievement in both subjects.

Year 1, Semester 1

BEB100	Introducing Professional Learning
MAB111	Mathematical Sciences 1B
MAB112	Mathematical Sciences 1C
PCB136	Engineering Physics 1C

Year 1, Semester 2

ENB101	Engineering Mechanics 1
ENB103	Electrical Engineering
MAB101	Statistical Data Analysis 1
MAB220	Computational Mathematics 1

Year 2, Semester 1

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB210	Statistical Modelling 1
MAB311	Advanced Calculus

Year 2, Semester 2

BEB200	Introducing Sustainability
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
MAB413	Differential Equations

Year 3, Semester 1

ENB242	Introduction To Telecommunications
ENB350	Real-time Computer-based Systems
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2

ENB245	Introduction To Design and Professional Practice
ENB352	Communication Environments For Embedded Systems
MAB414	Applied Statistics 2

Mathematics elective (Level 2)

Year 4, Semester 1

ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
	Mathematics elective (Level 2)

Year 4, Semester 2

ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
ENB458	Modern Control Systems
	Mathematics elective (Level 3)

Year 5, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
	Electrical Engineering Selective
	Mathematics elective (Level 3)

Year 5, Semester 2

BEB802	Project 2
ENB344	Industrial Electronics
	Mathematics elective (Level 3)
	Mathematics elective (Level 3)

Electrical Engineering Selectives

ENB339	Introduction to Robotics
ENB440	RF Techniques and Modern Applications
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
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
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

Course structure - For students commencing in 2007 & 2008 (Maths B and Maths C)

For students with four semesters of both Senior Mathematics B and Senior Mathematics C (or equivalent) with an exit assessment of at least Sound Achievement in both subjects.

Year 1, Semester 1

BEB100	Introducing Professional Learning
MAB111	Mathematical Sciences 1B
MAB112	Mathematical Sciences 1C
PCB136	Engineering Physics 1C

Year 1, Semester 2

ENB101	Engineering Mechanics 1
ENB103	Electrical Engineering
MAB101	Statistical Data Analysis 1
MAB210	Statistical Modelling 1

Year 2, Semester 1

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB220	Computational Mathematics 1
MAB311	Advanced Calculus

Year 2, Semester 2

ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
MAB413	Differential Equations
	Mathematics elective (Level 2 or 3)

Year 3, Semester 1

ENB242	Introduction To Telecommunications
ENB350	Real-time Computer-based Systems
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2

ENB245	Introduction To Design and Professional Practice
ENB352	Communication Environments For Embedded Systems
MAB414	Applied Statistics 2
	Mathematics elective (Level 2)

Year 4, Semester 1

ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
	Mathematics elective (Level 2)

Year 4, Semester 2

ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
ENB458	Modern Control Systems
	Mathematics elective (Level 3)

Year 5, Semester 1

| BEB701 | Work Integrated Learning 1 |
| BEB801 | Project 1 |

Electrical Engineering Selective

Mathematics elective (Level 3)

Year 5, Semester 2

BEB802	Project 2
ENB344	Industrial Electronics
	Mathematics elective (Level 3)
	Mathematics elective (Level 3)

Electrical Engineering Selectives

ENB339	Introduction to Robotics
ENB440	RF Techniques and Modern Applications
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
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
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

Course structure - For students commencing in 2006 (Maths B and Maths C)

For students with four semesters of both Senior Mathematics B and Senior Mathematics C (or equivalent) with an exit assessment of at least Sound Achievement in both subjects.

Year 1, Semester 1

BEB100	Introducing Professional Learning
MAB111	Mathematical Sciences 1B
MAB112	Mathematical Sciences 1C
PCB136	Engineering Physics 1C

Year 1, Semester 2

ENB101	Engineering Mechanics 1
ENB103	Electrical Engineering
MAB101	Statistical Data Analysis 1
MAB220	Computational Mathematics 1

Year 2, Semester 1

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB210	Statistical Modelling 1
MAB311	Advanced Calculus

Year 2, Semester 2

ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
MAB413	Differential Equations
	Mathematics elective (Level 2 or 3)

Year 3, Semester 1

ENB242	Introduction To Telecommunications
ENB350	Real-time Computer-based Systems
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2

ENB245	Introduction To Design and Professional Practice
ENB352	Communication Environments For Embedded Systems
MAB420	Computational Mathematics 2
MAB480	Introduction to Scientific Computation
	OR
	Computing Elective

Year 4, Semester 1

ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
	Mathematics elective (Level 2)

Year 4, Semester 2

ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
ENB458	Modern Control Systems
	Mathematics elective (Level 3)

Year 5, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
	Electrical Engineering Selective
	Mathematics elective (Level 3)

Year 5, Semester 2

BEB802	Project 2
ENB344	Industrial Electronics
	Mathematics elective (Level 3)
	Mathematics elective (Level 3)

Electrical Engineering Selectives

ENB440	RF Techniques and Modern Applications
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
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

INB353   Wireless and Mobile Networks

INB860   Computational Intelligence for Control and
            Embedded Systems

Potential Careers:

Electrical and Computer Engineer, Electrical Engineer,
Mathematician, Statistician.

Bachelor of Information Technology/Bachelor of Laws (IF38)

Year offered: 2011
Admissions: No
CRICOS code: 006385G
Course duration (full-time): 5 Years
Domestic fees (indicative): 2011: CSP $4,209 per semester (indicative)
International Fees (indicative): 2011: $11,875 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419622
Past rank cut-off: 90
Past OP cut-off: 6
Assumed knowledge: English (4, SA), and for games technology and security majors, Maths B (4, SA), or for all other majors, Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 528
Course coordinator: Mr Richard Thomas (Science and Technology); Dr. Bill Dixon (Director Undergraduate Law Programs)
Campus: Gardens Point

OP Guarantee

The OP Guarantee does not apply to this program.

Overview

An objective of this double degree is to provide graduates with the ability to practise law in light of the complex environments generated by manufacturers, data processing consultancies and private and government organisations. Alternatively, graduates can choose to practise as computing professionals specialising in legal applications or information systems.

Cooperative Education Program

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

Find out more about the Cooperative Education Program.

Career Outcomes

Graduates of the Bachelor of Information Technology component may find employment as a: Programmer Systems Programmer Systems Manager Systems Designer Systems Analyst Computer Sales and Marketing Consultant Data Processing Manager

Professional Recognition

The Bachelor of Information Technology component meets the knowledge requirements for membership of the Australian Computer Society. The Bachelor of Laws component covers the areas of law required for the purposes of admission to practise as a Solicitor and/or Barrister in all Australian states and territories.

Unit Incompatibility/Translation Information

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

Further Information

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

Faculty of Science and Technology

Phone +61 7 3138 2782
Fax +61 7 3138 2703
Email: enquiry.scitech@qut.edu.au

Faculty of Law

Phone: +61 7 313 82707
Fax: +61 7 313 82222
Email: law_enquiries@qut.edu.au

IT Elective Unit List

Information Technology Elective Unit List	
INB104	Building IT Systems
INB103	Industry Insights
INB270	Programming
INB210	Databases
INB250	Foundations of Computer Science
INB251	Networks
INB271	The Web
INB301	The Business of IT
INB302	IT Capstone Project
INS011	Co-operative Education 1
INS351	CCNA 3&4 Lan Switching
INB280	Fundamentals of Game Design
INB281	Advanced Game Design
INB341	Software Development With Oracle
INB311	Enterprise Systems
INB340	Database Design
INB306	Project 1
INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining and Data Analysis
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB330	Information Management

INB320	Business Process Modelling
INB335	Information Resources
INB120	Corporate Systems
INB122	Organisational Databases
INB123	Project Management Practice
INB124	Information Systems Development
INB220	Business Analysis
INB221	Technology Management
INB325	Corporate Systems Management Project
INB371	Data Structures and Algorithms
INB305	Special Topic 4
INB272	Interaction Design
INB365	Systems Programming
INB372	Agile Software Development
INB370	Software Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB255	Security
INB353	Wireless and Mobile Networks
INB355	Cryptology and Protocols
INB382	Real Time Rendering Techniques
INB381	Modelling and Animation Techniques
INB181	Introduction to Games Production
INB180	Computer Games Studies
INB204	Special Topic 1
INB205	Special Topic 2
INB304	Special Topic 3
INB860	Computational Intelligence for Control and Embedded Systems
MAB281	Mathematics for Computer Graphics

Potential Careers:

Barrister, Business Analyst, Crown Law Officer, Database Manager, Electronic Commerce Developer, In-House Lawyer, Programmer, Public Servant, Solicitor, Systems Analyst, Systems Manager, Systems Programmer, Web Designer.

Bachelor of Business / Bachelor of Information Technology (IF48)

Year offered: 2011
Admissions: No
CRICOS code: 022137A
Course duration (full-time): 4 or 4.5 years
Domestic fees (indicative): 2011: CSP $4,209 per semester (indicative)
Domestic Entry: February
International Entry: February
QTAC code: 419202
Past rank cut-off: 80
Past OP cut-off: 10
Assumed knowledge: English (4, SA), and for games technology and security majors, Maths B (4, SA), or for all other majors, Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 432
Standard credit points per full-time semester: 54 (average) for 8 semesters; 48 for 9 semesters
Course coordinator: Richard Thomas (Science and Technology); Dr Claire Gardiner, Director of Undergraduate Studies (QUT Business School)
Discipline coordinator: Mrs Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr John Chen (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Henri Burgers (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

IT Elective Unit List

Information Technology Elective Unit List

INB104	Building IT Systems
INB103	Industry Insights
INB270	Programming
INB210	Databases
INB250	Systems Architecture
INB251	Networks
INB271	The Web
INB301	The Business of IT
INB302	Capstone Project
INS011	Co-operative Education 1
INS351	CCNA 3&4 Lan Switching
INB280	Fundamentals of Game Design
INB281	Advanced Game Design
INB341	Software Development With Oracle
INB311	Enterprise Systems
INB340	Database Design
INB306	Project 1
INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB330	Information Management
INB320	Business Process Modelling
INB335	Information Resources
INB120	Corporate Systems
INB122	Organisational Databases
INB123	Project Management Practice
INB124	Information Systems Development
INB220	Business Analysis
INB221	Technology Management
INB325	Corporate Systems Management Project
INB371	Data Structures and Algorithms
INB272	Interaction Design
INB305	Special Topic 4
INB365	Systems Programming
INB372	Agile Software Development
INB373	Web Application Development
INB370	Software Development
INB374	Enterprise Software Architecture
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
INB255	Security
INB353	Wireless and Mobile Networks
INB355	Cryptology and Protocols
INB382	Real Time Rendering Techniques
INB381	Modelling and Animation Techniques
INB180	Computer Games Studies
INB181	Introduction to Games Production
INB204	Special Topic 1
INB205	Special Topic 2
INB304	Special Topic 3
INB860	Computational Intelligence for Control and Embedded Systems
MAB281	Mathematics for Computer Graphics

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This course has been discontinued. Currently enrolled students should check with the relevant Faculty for course progression and enrolment advice.

Course Updates - List of re-coded and replacement Business units

Faculty Core units

BSB114	is replaced by BSB124 Working in Business
BSB115	now retitled BSB115 Management
BSB119	now retitled BSB119 Global Business
BSB122	is replaced by BSB123 Data Analysis

Accountancy Core units

AYB121	is now AYB200 Financial Accounting AYB121
AYB220	is now AYB340 Company Accounting AYB220
AYB301	now retitled AYB301 Audit and Assurance

Advertising Core units

AMB221	is now AMB318 Advertising Copywriting
AMB222	is now AMB319 Media Planning
AMB321	is now AMB339 Advertising Campaigns

Banking and Finance Core units

EFB101	is replaced by EFB222 Quantitative Methods for Economics and Finance
EFB102	now retitled EFB223 Economics 2

Economics Core units

EFB101	is replaced by EFB222 Quantitative Methods for Economics and Finance
EFB102	now retitled EFB223 Economics 2
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB314	is replaced by EFB336 International Economics
EFB329	is now EFB338 Contemporary Application of Economic

Electronic Business Core units

BSB212	is replaced by AYB114 Business Technologies
BSB213	is replaced by AYB115 Governance Issus and Fraud
BSB314	is replaced by Forensic and Business Intelligence
ITB233	is now INB312 Enterprise Systems Application
ITB823	is now INB830 Web Sites for E-Commerce
ITB239	is now INB342 Enterprise Data Mining

Human Resource Management Core units

MGB220	now retitled MGB220 Business Research Methods
MGB221	is now MGB339 Performance and Reward

International Business Core units

IBB202	is replaced by EFB240 Finance for International Business
IBB208	IBB208 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB210	is now replaced by AMB210 Importing and Exporting

IBB213	is now AMB336 International Marketing
IBB217	IBB217 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB300	is now AMB369 International Business Strategy
IBB308	is replaced by MGB340 International Business in the Asia-Pacific

Management Core units

MGB310	Sustainability in a Changing Environment was formerly known as MGB212 and MGB334

Marketing Core units

AMB241	is now AMB335 E-Marketing Strategies
AMB341	is now AMB359 Strategic Marketing

Public Relations Core units

AMB260	is replaced by AMB263 Introduction to Public Relations
AMB360	is replaced by AMB373 Corporate Communication
AMB361	is replaced by AMB379 Public Relations Campaigns

Business Law and Tax Extended Major (BLX)

AYB223	replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law
AYB305	is replaced by AYB205 Law of Business Entities
AYB312	is now AYB232 Financial Institutions

Professional Accounting Extended Major (PAX)

AYB223	is replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law

Advertising Extended Major (ADX)

AMB230	now retitled AMB230 Digital Promotions
AMB330	now retitled AMB330 Advertising Planning Portfolio

Banking Extended Major (BFX)

AYB312	is now AYB232 Financial Institutions Law
EFB200	is replaced by EFB333 Introductory Econometrics
EFB318	is replaced by EFB335 Investments

Financial Economics Extended Major (FEX) (for Banking & Finance Students)

EFB200	is replaced by EFB333 Introductory Econometrics
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB325	is replaced by EFB336 International Economics

EFB318   is replaced by EFB335 Investments

EFB324   is replaced by EFB337 Game Theory and Applications

Financial Economics Extended Major (FEX) (for Economics Students)

EFB200   is replaced by EFB333 Introductory Econometrics

EFB324   is replaced by EFB201 Financial Markets

EFB325   is replaced by EFB337 Game Theory and Applications

Funds Management Extended Major (FDX)

EFB318   is replaced by EFB335 Investments

AYB312   is now AYB232 Financial Institutions Law

EFB200   is replaced by EFB333 Introductory Econometrics

Human Resource Management Extended Major (HRX)

MGB315   is now MGB370 Personal and Professional Development

IBB205   is now MGB225 Intercultural Communication and Negotiation Skills

MGB310   Sustainability in a Changing Environment was formerly known as MGB212 and MGB334

International Business Extended Major (IBX)

IBB205   is now MGB225 Intercultural Communication and Negotiation Skills

IBB303   is now AMB303 International Logistics

AMB230   now retitled AMB230 Digital Promotions

IBB312   is replaced by AMB300 Independent Project 1

Management Extended Major (MNX)

IBB205   is now MGB225 Intercultural Communication and Negotiation Skills

MGB218   is now MGB324 Managing Business Growth

MGB315   is now MGB370 Personal & Professional Development

IBB210   is replaced by AMB210 Import and Exporting

IBB303   is now AMB303 International Logistics

Marketing Extended Major (MKX)

AMB251   now retitled AMB251 Innovation and Brand Management

AMB260   is replaced by AMB263 Introduction to Public Relations

AMB351   is now AMB209 Tourism Marketing

AMB352   is replaced by AMB252 Business Decision Making

AMB354   is now AMB208 Events Marketing

IBB213   is now AMB336 International Marketing

IBB303   is now AMB303 International Logistics

Public Relations Extended Major (PRX)

AMB370   is replaced by AMB374 Global Public Relations

Cases

AMB371   is replaced by AMB375 Public Relations Management

Business Law and Tax Specialisation (BLS)

AYB223   is replaced by AYB230 Corporations Law

AYB325   is now AYB219 Taxation Law

AYB305   is now AYB205 Company Law & Practice

AYB312   is now AYB232 Financial Institutions Law

BSB213   is now AYB115 Governance Issues in E-Business

Electronic Business Specialisation (EUS)

BSB212   is replaced by AYB114 Business Technologies

BSB213   is replaced by AYB115 Governance Issues and Fraud

BSB314   is replaced by AYB341 Forensic and Business Intelligence

ITB233   is now INB312 Enterprise Systems Applications

ITB823   is now INB830 Web Sites for E-Commerce

ITB239   is now INB342 Enterprise Data Mining

Financial Economics Specialisation (FES)

EFB102   is replaced by EFB223 Economics 2

EFB202   is replaced by EFB330 Intermediate Macroeconomics

EFB211   is replaced by EFB331 Intermediate Microeconomics

EFB329   is now 338 Contemporary Applications of Economics

EFB314   is replaced by EB336 International Economics

EFB324   is replaced by EFB201 Financial Markets

EFB325   is replaced by EFB337 Game Theory and Applications

Integrated Marketing Communication Specialisation (IMS)

AMB260   is replaced by AMB263 Introduction to Public Relations

AMB230   now retitled AMB230 Digital Promotions

AMB354   is now AMB208 Events Marketing

International Logistics Specialisation (ILG)

IBB303   is now AMB303 International Logistics

BSB314   is replaced by AYB341 Forensic and Business Intelligence

IBB210   is replaced by AMB210 Importing and Exporting

EFB213   is replaced by AMB252 Business Decision Making (offered Sem 2); OR MGB335 Project Management (offered Sem 1 & 2)

Sales Specialisation (SALES)

AMB230   now retitled AMB230 Digital Promotion

AMB250   is replaced by MGB225 Intercultural Communication and Negotiation Skills

International Exchange Specialisation (IEX)

| IBB205 | is now MGB225 Intercultural Communication and Negotiation Skills |

Potential Careers:

Account Executive, Accountant, Actuary, Administrator, Advertising Professional, Banker, Banking and Finance Professional, Business Analyst, Certified Practicing Accountant, Computer Games Developer, Computer Salesperson/Marketer, Corporate Secretary, Database Manager, Economist, Electronic Commerce Developer, Financial Advisor/Analyst, Financial Project Manager, Funds Manager, Government Officer, Home Economist, Human Resource Manager, Information Officer, Information Security Specialist, International Business Specialist, Internet Professional, Investment Manager, Manager, Marketing Officer/Manager, Multimedia Designer, Organisational Communication Specialist, Public Relations Officer/Consultant, Publishing Professional, Risk Manager, Stockbroker, Systems Analyst, Systems Manager, Systems Programmer, Systems Trainer, Technical Officer, Trainer, Web Designer.

Doctor of Philosophy (Information Technology) (IF49)

Year offered: 2011
Admissions: Yes
CRICOS code: 006367J
Course duration (full-time): 3 years
Course duration (part-time): 6 years
Domestic fees (indicative): Aust citizens or PRs will be awarded an RTS/RTA place or a QUT sponsorship for tuition fees. If you exceed the max time, you will be charged - 2011: $9,750 per semester (indicative)
International Fees (indicative): 2011: $11,000 (indicative) per semester
International Entry: At any time
Course coordinator: A/Prof Terry Walsh
Campus: Gardens Point and Kelvin Grove

Course Overview

The Doctor of Philosophy (PhD) is awarded in recognition of a candidate's erudition in a broad field of learning and for notable accomplishment in that field through an original and substantial contribution to knowledge.

The candidate's research must reveal high critical ability and powers of imagination and synthesis and may be in the form of new knowledge or significant and original adaptation, application and interpretation of existing knowledge.

Topics can include multidisciplinary problems suggested by external bodies, for example, industry, government and commerce, with joint supervisors from both academic and outside environments. The candidate's doctoral work can be undertaken either on campus or at an off-campus location approved by QUT. The candidate's PhD will be linked with one of the Faculty's research areas.

Entry Requirements

Applicants must have a relevant first- or second-class division A honours degree or equivalent from QUT or another recognised institution.

Research Area

Areas of research interest and contact details can be obtained from the Faculty website.

Course Structure

The length of the program is generally three years full-time or six years part-time.

Assessment for the doctoral award is based on a program of supervised research and investigation, culminating in a thesis.

Programs may include some coursework in support of the conduct of research and preparation of the thesis. Candidates are required to have regular, face-to-face interaction with supervisors and to participate in University scholarly activities such as research seminars, teaching and publication.

Further Information

For further information about this course, please contact:

A/Prof Terry Walsh
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Potential Careers:

Academic, Computer Games Developer, Computer Systems Engineer, Data Communications Specialist, Database Manager, Electronic Commerce Developer, Librarian, Network Administrator, Network Manager, Programmer, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer.

Doctor of Philosophy (Mathematics) (IF49)

Year offered: 2011
Admissions: Yes
CRICOS code: 006367J
Course duration (full-time): 3 years
Course duration (part-time): 6 years
Domestic fees (indicative): Aust citizens or PRs will be awarded an RTS/RTA place or a QUT sponsorship for tuition fees. If you exceed the max time, you will be charged - 2011: $9,750 per semester (indicative)
International Fees (indicative): 2011: $11,000 (indicative) per semester
International Entry: At any time
Course coordinator: A/Prof Terry Walsh
Discipline coordinator: A/Prof Terry Walsh
Campus: Gardens Point and Kelvin Grove

Overview

The Doctor of Philosophy in science will suit graduates with an honours or masters degree who wish to seek highly-paid employment prospects in industry and research organisations and universities.

Entry Requirements

Candidates must have a relevant first-class or second-class division A (upper division) honours degree or an appropriate masters degree.

Course Description

When enrolling in the doctoral program, you can undertake an approved project in any field of interest supported by a Science research area within the Faculty of Science and Technology (outlined in the Faculty Prospectus).

Please note that these areas of research specialisation are given as a guide only. Staff are happy to discuss these and any related topics. Please contact the program leader of the relevant research area for further information.

You can undertake the course either full-time or part-time. If studying full-time with an appropriate honours degree, you can expect to complete your Doctor of Philosophy degree in three-and-a-half-years.

Further Information

For further information about this course, please contact:

A/Prof Terry Walsh
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Potential Careers:

Actuary, Data Communications Specialist, Mathematician, Statistician.

Doctor of Philosophy (Science) (IF49)

Year offered: 2011
Admissions: Yes
CRICOS code: 006367J
Course duration (full-time): 3 years
Course duration (part-time): 6 years
Domestic fees (indicative): Aust citizens or PRs will be awarded an RTS/RTA place or a QUT sponsorship for tuition fees. If you exceed the max time, you will be charged - 2011: $12,125 per semester (indicative)
International Fees (indicative): 2011: $13,375 (indicative) per semester
International Entry: At any time
Course coordinator: A/Prof Terry Walsh
Discipline coordinator: A/Prof Terry Walsh
Campus: Gardens Point and Kelvin Grove

Overview

The Doctor of Philosophy in science will suit graduates with an honours or masters degree who wish to seek highly-paid employment prospects in industry and research organisations and universities.

Entry Requirements

Candidates must have a relevant first-class or second-class division A (upper division) honours degree or an appropriate masters degree.

Course Description

When enrolling in the doctoral program, you can undertake an approved project in any field of interest supported by a Science research area within the Faculty of Science and Technology (outlined in the Faculty Prospectus).

Please note that these areas of research specialisation are given as a guide only. Staff are happy to discuss these and any related topics. Please contact the program leader of the relevant research area for further information.

You can undertake the course either full-time or part-time. If studying full-time with an appropriate honours degree, you can expect to complete your Doctor of Philosophy degree in three-and-a-half years.

Further Information

For further information about this course, please contact:

A/Prof Terry Walsh
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Potential Careers:

Biologist, Biotechnologist, Chemist, Chemist Industrial, Clinical Laboratory Scientist, Coastal Scientist, Conservation Biologist, Ecologist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Hydrogeologist, Industrial Chemist, Marine Scientist, Medical Biotechnologist, Medical Physicist, Medical Scientist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Physicist, Population Ecologist.

Bachelor of Mathematics/Bachelor of Information Technology (IF58)

Year offered: 2011
Admissions: No
CRICOS code: 020327M
Course duration (full-time): 4 Years
Domestic fees (indicative): 2011: CSP rate available August 2010
Domestic Entry: February
International Entry: February
QTAC code: 419552
Past rank cut-off: 75
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 420 (Note: The minimum course load per semester required for full-time enrolment may be more than 36 credit points)
Course coordinator: Dr Gary Carter (Mathematical Sciences Major), Richard Thomas (Information Systems Major)
Discipline coordinator: Dr Gary Carter (Mathematics),
Campus: Gardens Point

Career Opportunities

As a graduate you may find employment as a programmer, software engineer, systems programmer, technical support specialist, systems manager, systems designer, computer scientist, security analyst, systems analyst, data communications specialist, mathematician, or statistician.

Course Structure

The double degree offers a foundation in mathematics and information technology in the first year. You will then select integrated strands combining units from the areas of applicable mathematics, computational mathematics, operations research, statistics, or financial mathematics with a combined major in Data Communications and Software Engineering.

Professional Recognition

On graduation, you will be eligible for membership of the Mathematical Society of Australia, the Statistical Society of Australia Inc and, depending on unit selection, the Australian Society for Operations Research. Graduates of the Bachelor of Information Technology meet the knowledge requirement for admission to the Australian Computer Society.

Cooperative Education Program

An optional one-year period of paid work experience in an area of information technology is available to eligible full-time students. The Cooperative Education Program is a joint venture between employers and educators to better prepare students for employment upon graduation. Companies that QUT's Cooperative Education students have worked with include Energex, Boeing, CITEC, Global Banking and Securities Transaction, various Queensland Government departments, Dialog, TABQ, RACQ and Sun Microsystems.

For more information visit http://coop.scitech.qut.edu.au/students/whatiscooped.jsp

Mathematics Scholarships

Students enrolled in this course can apply for industry-sponsored scholarships. Mathematics equity scholarships are also awarded on the basis of socioeconomic disadvantage.

Unit Incompatibility/Translation Information

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

Further Information

For further information about this course, please contact:

Dr Gary Carter or Richard Thomas
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT Elective Unit List

Information Technology Elective Unit List	
INB104	Building IT Systems
INB103	Industry Insights
INB270	Programming
INB210	Databases
INB250	Foundations of Computer Science
INB251	Networks
INB271	The Web
INB301	The Business of IT
INB302	IT Capstone Project
INS011	Co-operative Education 1
INS351	CCNA 3&4 Lan Switching
INB280	Fundamentals of Game Design
INB281	Advanced Game Design
INB341	Software Development With Oracle
INB311	Enterprise Systems
INB340	Database Design
INB306	Project 1
INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining and Data Analysis
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB330	Information Management
INB320	Business Process Modelling

INB335	Information Resources
INB120	Corporate Systems
INB122	Organisational Databases
INB123	Project Management Practice
INB124	Information Systems Development
INB220	Business Analysis
INB221	Technology Management
INB325	Corporate Systems Management Project
INB371	Data Structures and Algorithms
INB305	Special Topic 4
INB272	Interaction Design
INB365	Systems Programming
INB372	Agile Software Development
INB370	Software Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB255	Security
INB353	Wireless and Mobile Networks
INB355	Cryptology and Protocols
INB382	Real Time Rendering Techniques
INB381	Modelling and Animation Techniques
INB181	Introduction to Games Production
INB180	Computer Games Studies
INB204	Special Topic 1
INB205	Special Topic 2
INB304	Special Topic 3
INB860	Computational Intelligence for Control and Embedded Systems
MAB281	Mathematics for Computer Graphics

Course structure

This course has been discontinued. Currently enrolled students should check the Course Summary Sheet (via QUT Virtual) for enrolment and unit information.

Potential Careers:

Actuary, Computer Game Programmer, Data Communications Specialist, Database Manager, Market Research Manager, Mathematician, Network Administrator, Network Manager, Programmer, Quantitative Analyst, Software Engineer, Statistician, Systems Analyst.

Bachelor of Engineering (Electrical)/Bachelor of Information Technology (IF59)

Year offered: 2011
Admissions: No
CRICOS code: 006384G
Course duration (full-time): 5 years
Domestic fees (indicative): 2011: CSP $3,878 (indicative) per semester
International Fees (indicative): 2011: $12,000 (indicative) per semester
QTAC code: 419512
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 480
Standard credit points per full-time semester: 48
Course coordinator: Dr R.Mahalinga-Iyer (Engineering), Mr Richard Thomas (Science and Technology)
Discipline coordinator: Dr Jasmine Banks (Engineering)
Campus: Gardens Point

DISCONTINUATION

As of Semester 1 2009, this course has been discontinued and replaced by IX54 Bachelor of Engineering (Electrical)/Bachelor of Information Technology.

Further Information

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

Engineering Coordinator
Phone +61 7 3138 2678
Fax +61 7 3138 1515
Email: bee.enquiries@qut.com

Science and Technology Coordinator
Phone: 3138 9353
Email: enquiry.scitech@qut.edu.au

Potential Careers:

Computer Systems Engineer, Electrical and Computer Engineer, Electrical Engineer, Internet Professional.

Bachelor of Applied Science/Bachelor of Business (IF61)

Year offered: 2011
Admissions: No
CRICOS code: 042263G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,358 per semester (indicative)
Domestic Entry: February
International Entry: February
QTAC code: 419832
Past rank cut-off: 80
Past OP cut-off: 10
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 432
Standard credit points per full-time semester: 54 (average)
Course coordinator: Dr Perry Hartfield (Science and Technology); Director of Undergraduate Studies, QUT Business School; email: bus@qut.edu.au
Discipline coordinator: Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr John Chen (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Henri Burgers (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

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This course has been discontinued. Currently enrolled students should check with the relevant Faculty for course progression and enrolment advice.

Potential Careers:

Academic, Account Executive, Accountant, Advertising Professional, Analytical Chemist, Astrophysicist, Banker, Banking and Finance Professional, Biochemist, Biologist, Biomechanical Engineer, Biomedical Engineer, Biotechnologist, Business Analyst, Chemist, Chemist Industrial, Clinical Laboratory Scientist, Coastal Scientist, Conservation Biologist, Ecologist, Economist, Environmental Scientist, Estimator, Exchange Student, Financial Advisor/Analyst, Financial Project Manager, Forensic Scientist, Funds Manager, Geologist, Geophysicist, Geoscientist, Government Officer, Health Physicist, Home Economist, Human Resource Developer, Human Resource Manager, Hydrogeologist, Immunologist, Industrial Chemist, International Business Specialist, Investment Manager, Laboratory Technician (Chemistry), Manager, Marine Scientist, Marketing Officer/Manager, Medical Biotechnologist, Medical Physicist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Physicist, Plant Biotechnologist, Policy Officer, Population Ecologist, Programmer, Public Servant, Stockbroker, Virologist.

Bachelor of Arts/Bachelor of Applied Science (IF86)

Year offered: 2011
Admissions: No
Course duration (full-time): 4 Years
Domestic fees (indicative): 2011: CSP $3,299 per semester (indicative)
Domestic Entry: Course has been discontinued
International Entry: Course has been discontinued
Past rank cut-off: 72
Past OP cut-off: 13
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384 (192 cp in the Bachelor of Arts and 192 cp in the Bachelor of Applied Science)
Standard credit points per full-time semester: 48
Course coordinator: Contract Ms Eve Teague (Arts) - Dr Perry Hartfield (Science and Technology)
Discipline coordinator: Dr Perry Hartfield (Biochemistry Major); Dr Marion Bateson (Biotechnology Major); Dr Robert Johnson (Chemistry Major); Dr Ian Williamson (Ecology Major); Dr Robin Thwaites (Environmental Science Major); Dr Emad Kiriakous (Forensic Science Major); Dr Gary Huftile (Geoscience Major); Dr Scott McCue (Mathematics Major); Dr Christine Knox (Microbiology Major); Dr Greg Michael (Physics Major)
Campus: Gardens Point and Kelvin Grove

Course discontinued

This course has been discontinued and is open to continuing students only.

Career Opportunities

As a graduate of this course you will receive both a Bachelor of Arts degree and a Bachelor of Applied Science degree. This combination of degrees provides a valuable foundation for a wide range of careers in areas such as government, diplomacy, higher education and public service. Opportunities in tourism, translation, and the hospitality industry are open to those with a Language major. Complementary majors chosen from Arts and Science provide an excellent background for careers in environmental management.

Course Design

A feature of the course design is the flexibility and choice it offers. Students can tailor the double degree to their career interests by combining any one of the 10 majors that are available in the Bachelor of Applied Science (SC01) degree with a specialisation chosen from a wide range of offerings in the humanities.

The program is integrated so that students will study both science and arts units in each semester.

Professional Recognition

Relevant professional bodies for the Bachelor of Applied Science (SC01) are listed under the separate entry for the course. Eligibility for membership depends on the majors undertaken.

Further Information

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

Humanities Coordinator

Ms Eve Teague
Phone: +61 7 3138 4541
Email: e.teague@qut.edu.au

Science and Technology Coordinator

Dr Perry Hartfield
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Example of Full-Time Course Structure

Year 1, Semester 1

> Major Unit - Arts
>
> Applied Skills and Scholarship
>
> Two Science units (SC01 Level 1): Foundation units

Year 1, Semester 2

> Major Unit - Arts
>
> Discipline Major Unit or Elective unit
>
> Two Science units (SC01 Level 1): at least one Foundation unit

Year 2, Semester 1

> Major Unit - Arts
>
> Discipline Major Unit or Elective unit
>
> Two Science units (SC01 Levels 1 and 2: Level 2 from Major)

Year 2, Semester 2

> Major Unit - Arts
>
> Minor Unit - Arts
>
> Two Science Units (SC01 Levels 1 and 2: Level 2 from Major)

Year 3, Semester 1

> Major Unit - Arts
>
> Discipline Major Unit or Minor Unit or Elective unit - Arts
>
> Two Science Major units (SC01 Level 2)

Year 3, Semester 2

> Minor Unit - Arts
>
> Discipline Major Unit or Minor Unit or Elective unit - Arts
>
> Two Science Major units (SC01 Level 3)

Year 4, Semester 1

Major Unit - Arts

Discipline Major Unit or Minor Unit or Elective unit - Arts

Two Science Major units (SC01 Level 3)

Year 4, Semester 2

Major Unit - Arts

Discipline Major Unit or Elective

Two Science Major units (SC01 Level 3)

Course structure - Major in Biochemistry

Year 1, Semester 1

| SCB111 | Chemistry 1 |
| SCB112 | Cellular Basis of Life |

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

| SCB120 | Plant and Animal Physiology |
| SCB121 | Chemistry 2 |

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

| SCB122 | Cell and Molecular Biology |
| SCB123 | Physical Science Applications |

Year 3, Semester 1

| LQB381 | Biochemistry: Structure and Function |
| LQB383 | Molecular and Cellular Regulation |

Year 3, Semester 2

| LQB481 | Biochemical Pathways and Metabolism |
| LQB483 | Molecular Biology Techniques |

Year 4, Semester 1

| LQB581 | Functional Biochemistry |
| LQB582 | Biomedical Research Technologies |

Year 4, Semester 2

| LQB681 | Biochemical Research Skills |
| LQB682 | Protein Biochemistry and Bioengineering |

Course structure - Major in Biotechnology

Year 1, Semester 1

| SCB111 | Chemistry 1 |
| SCB112 | Cellular Basis of Life |

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

| SCB120 | Plant and Animal Physiology |
| SCB121 | Chemistry 2 |

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

| SCB122 | Cell and Molecular Biology |
| SCB123 | Physical Science Applications |

Year 3, Semester 1

| LQB381 | Biochemistry: Structure and Function |
| LQB383 | Molecular and Cellular Regulation |

Year 3, Semester 2

| LQB483 | Molecular Biology Techniques |
| LQB484 | Introduction to Genomics and Bioinformatics |

Year 4, Semester 1

	TWO units selected from:
LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Year 4, Semester 2

	TWO units selected from:
LQB682	Protein Biochemistry and Bioengineering
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions

Course structure - Major in Chemistry

Year 1, Semester 1

SCB111	Chemistry 1
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2 (Chemistry Pre-Major Strand)

| SCB112 | Cellular Basis of Life |
| SCB121 | Chemistry 2 |

Year 2, Semester 1

| MAB120 | Algebra and Calculus |
| SCB110 | Science Concepts and Global Systems |

Year 2, Semester 2

| SCB123 | Physical Science Applications |

SCB131   Experimental Chemistry

Year 3, Semester 1

PQB312   Analytical Chemistry For Scientists and Technologists

PQB331   Structure and Bonding

Year 3, Semester 2

PQB401   Reaction Kinetics, Thermodynamics and Mechanisms

PQB442   Chemical Spectroscopy

Year 4, Semester 1

PQB502   Advanced Physical Chemistry

PQB531   Organic Mechanisms and Synthesis

Year 4, Semester 2

PQB631   Advanced Inorganic Chemistry

PQB642   Chemical Research

Course structure - Major in Ecology

Year 1, Semester 1

SCB111   Chemistry 1

SCB112   Cellular Basis of Life

Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)

SCB120   Plant and Animal Physiology

SCB122   Cell and Molecular Biology

Year 2, Semester 1

SCB110   Science Concepts and Global Systems

Plus either:

MAB101   Statistical Data Analysis 1

Or

MAB105   Preparatory Mathematics

Year 2, Semester 2

NQB201   Planet Earth

NQB202   History of Life on Earth

Year 3, Semester 1

NQB302   Earth Surface Systems

NQB321   Ecology

Year 3, Semester 2

NQB421   Experimental Design

NQB422   Genetics and Evolution

Year 4, Semester 1

NQB521   Population Genetics and Molecular Ecology

NQB523   Population Management

Year 4, Semester 2

NQB622   Conservation Biology

NQB623   Ecological Systems

Course structure - Major in Environmental Science

Year 1, Semester 1

SCB111   Chemistry 1

SCB112   Cellular Basis of Life

Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)

SCB120   Plant and Animal Physiology

SCB121   Chemistry 2

Year 2, Semester 1

SCB110   Science Concepts and Global Systems

Plus either:

MAB101   Statistical Data Analysis 1

Or

MAB105   Preparatory Mathematics

Year 2, Semester 2

NQB202   History of Life on Earth

SCB123   Physical Science Applications

Year 3, Semester 1

NQB302   Earth Surface Systems

NQB321   Ecology

Year 3, Semester 2

NQB403   Soils and the Environment

NQB421   Experimental Design

Year 4, Semester 1

NQB501   Environmental Modelling

NQB502   Field Methods in Natural Resource Sciences

Year 4, Semester 2

NQB601   Sustainable Environmental Management

NQB602   Environmental Chemistry

Course structure - Major in Forensic Science

Year 1, Semester 1

SCB111   Chemistry 1

SCB112   Cellular Basis of Life

Year 1, Semester 2 (Forensic Science Pre-Major Strand)

SCB121   Chemistry 2

SCB122   Cell and Molecular Biology

Year 2, Semester 1

SCB110   Science Concepts and Global Systems

Plus either:

MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

| SCB123 | Physical Science Applications |
| SCB131 | Experimental Chemistry |

Year 3, Semester 1

| LQB383 | Molecular and Cellular Regulation |
| SCB384 | Forensic Sciences - From Crime Scene to Court |

Year 3, Semester 2

| JSB979 | Forensic Scientific Evidence |
| PQB312 | Analytical Chemistry For Scientists and Technologists |

Year 4, Semester 1

| PQB513 | Instrumental Analysis |
| PQB584 | Forensic Physical Evidence |

Year 4, Semester 2

| LQB680 | Forensic DNA Profiling |
| PQB684 | Forensic Analysis |

Course structure - Major in Geoscience

Year 1, Semester 1

| SCB111 | Chemistry 1 |
| SCB112 | Cellular Basis of Life |

Year 1, Semester 2 (Geoscience Pre-Major Strand)

| NQB201 | Planet Earth |
| SCB123 | Physical Science Applications |

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

| NQB202 | History of Life on Earth |
| SCB222 | Exploration of the Universe |

Year 3, Semester 1

| NQB311 | Mineralogy |
| NQB314 | Sedimentary Geology |

Year 3, Semester 2

| NQB411 | Petrology of Igneous and Metamorphic Rocks |
| NQB412 | Structural Geology and Field Methods |

Year 4, Semester 1

| NQB502 | Field Methods in Natural Resource Sciences |
| NQB513 | Geophysics |

Year 4, Semester 2

| NQB613 | Plate Tectonics |
| NQB615 | Geochemistry |

Course structure - Major in Microbiology

Year 1, Semester 1

| SCB111 | Chemistry 1 |
| SCB112 | Cellular Basis of Life |

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

| SCB120 | Plant and Animal Physiology |
| SCB121 | Chemistry 2 |

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

| SCB122 | Cell and Molecular Biology |
| SCB123 | Physical Science Applications |

Year 3, Semester 1

| LQB381 | Biochemistry: Structure and Function |
| LQB386 | Microbial Structure and Function |

Year 3, Semester 2

| LQB483 | Molecular Biology Techniques |
| LQB486 | Clinical Microbiology 1 |

Year 4, Semester 1

| LQB586 | Clinical Microbiology 2 |
| LQB587 | Applied Microbiology 1: Water, Air and Soil |

Year 4, Semester 2

| LQB686 | Microbial Technology and Immunology |
| LQB687 | Applied Microbiology 2: Food and Quality Assurance |

Course structure - Major in Physics

Year 1, Semester 1

MAB121	Calculus and Differential Equations
	Or
MAB120	Algebra and Calculus
SCB111	Chemistry 1

Students who have completed only Maths B are required to take MAB120. Students who have completed both Maths B and Maths C should take MAB121.

Year 1, Semester 2 (Physics Pre-Major Strand)

MAB122	Algebra and Analytic Geometry
PQB250	Mechanics and Electromagnetism

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB112	Cellular Basis of Life

Year 2, Semester 2

MAB220	Computational Mathematics 1
	Or
MAB121	Calculus and Differential Equations
PQB251	Waves and Optics

Year 3, Semester 1

MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 3, Semester 2

PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation

Year 4, Semester 1

PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques

Year 4, Semester 2

PQB650	Advanced Theoretical Physics
PQB651	Experimental Physics

Major in the Bachelor of Arts - International and Global Studies

International and Global Studies

Seven (7) units are required for an International and Global Studies (IGS) Major. These can include units completed in the IGS Major up to 2009 as well as any completed from the following list.

BSB119	Global Business
CLB049	The Global Teacher
CLB104	Colonialism and Independence in Asia-Pacific
CLB105	Australia and the South Pacific
CLB106	Modern China
CLB108	Nations and Nationalism in Modern Europe
CLB109	World Regions
CLB112	South East Asia in Focus
MDB454	Science, Technology and Society
SCB110	Science Concepts and Global Systems

Students may select one language unit as an elective in the International Studies Strand. Students may also undertake a Combined Major in Languages/International and Global Studies, comprising: 3 elective units, 4 units in one chosen language. (Indonesian, Japanese, French, Mandarin, German).

Major in the Bachelor of Arts - Society and Change

Society and Change

Seven (7) units are required for a Society and Change Major. These can include units completed in the Society and Change Major up to 2009 as well as any completed from the following list.

CLB107	The Classical World
CLB110	Environment and Society
CLB111	Environmental Hazards
JSB171	Justice and Society
KMB003	Sex Drugs Rock 'N' Roll
MDB454	Science, Technology and Society
PUB209	Health, Culture and Society
PYB067	Human Sexuality
SCB110	Science Concepts and Global Systems
SWB102	The Human Condition
SWB104	Interpersonal Communication
SWB212	Community Work
SWB214	Team Practice and Group Processes
SWB222	Advanced Communication for Human Services and Social Work
SWB223	People, Society and Social Work
SWB302	Social Policy Processes

Major in the Bachelor of Arts - Ethics and Human Rights

Ethics and Human Rights

Seven (7) units are required for an Ethics and Human Rights Major. These can include units completed in the Ethics and Human Rights Major up to 2009 as well as any completed from the following list.

JSB171	Justice and Society
JSB175	Social Ethics and the Justice System
LWS101	Ethics Law and Health Care
NSB113	Diversity and Health: Introduction to Indigenous and Multicultural Perspectives
PUB486	Ethics and the Law in Health Service Delivery
SWB105	Introduction to Human Rights and Ethics
SWB219	Ethical and Legal Dimensions of Human Services and Social Work

Major in the Bachelor of Arts - Community Studies

Community Studies

Seven (7) units are required for a Community Studies Major. These can include units completed in the Community Studies Major up

to 2009 as well as any completed from the following list.

EDB040	Indigenous Knowledge: Research Ethics and Protocols
EDB041	Indigenous Australia: Country, Kin and Culture
SWB100	Introduction to Human Services and Social Work
SWB102	The Human Condition
SWB103	Contemporary Social and Community Issues
SWB104	Interpersonal Communication
SWB204	Child and Family Services: Introduction
SWB206	Disability Services: Introduction
SWB207	Services to Young People: Introduction
SWB212	Community Work
SWB214	Team Practice and Group Processes
SWB216	The Human Dimensions of Space
SWB219	Ethical and Legal Dimensions of Human Services and Social Work
SWB220	Practice Theories
SWB221	Social Work Processes and Methods
SWB222	Advanced Communication for Human Services and Social Work
SWB302	Social Policy Processes
SWB304	Child and Family Services: Advanced
SWB305	Community and Youth Corrections
SWB306	Disability Services: Advanced
SWB307	Services to Young People: Advanced
SWB308	Child Protection Intervention Skills

Major in the Bachelor of Arts - Australian Studies

Australian Studies

Seven (7) units are required for an Australian Studies Major. These can include units completed in the Australian Studies Major up to 2009 as well as any completed from the following list.

CLB101	Australian Society and Culture
CLB102	Australian Historical Studies
CLB105	Australia and the South Pacific
CLB113	Australian Geographical Studies
EDB038	Indigenous Australian Culture Studies
EDB039	Indigenous Politics and Political Culture
EDB041	Indigenous Australia: Country, Kin and Culture

Discipline Major in the Bachelor of Arts - Geography and Environmental Studies

Geography and Environmental Studies

Six (6) units are required for a Geography and Environmental Studies Discipline Major. These can include units completed in the Geography and Environmental Studies Major up to 2009 as well as any completed from the following list.

CLB109	World Regions
CLB110	Environment and Society
CLB111	Environmental Hazards
CLB112	South East Asia in Focus
CLB113	Australian Geographical Studies
CLB114	Geography in the Field
SCB110	Science Concepts and Global Systems
UDB164	Population and Urban Studies
UDB281	Geographic Information Systems
UDB282	Remote Sensing

Discipline Major - History

History

Six (6) units are required for a History Discipline Major. These can include units completed in the History Discipline Major up to 2009 as well as any completed from the following list.

CLB101	Australian Society and Culture
CLB102	Australian Historical Studies
CLB103	Interpreting the Past
CLB104	Colonialism and Independence in Asia-Pacific
CLB105	Australia and the South Pacific
CLB106	Modern China
CLB107	The Classical World
CLB108	Nations and Nationalism in Modern Europe

Discipline Major - Languages

Mandarin

Six sequenced units are required for a Mandarin Discipline Major. These can include units completed in the Mandarin Discipline Major up to 2009 as well as those from the following list:

AMB030	Mandarin for Chinese
AMB031	Mandarin 1
AMB032	Mandarin 2
AMB033	Mandarin 3
AMB034	Mandarin 4
AMB035	Mandarin 5
AMB036	Mandarin 6
AMB037	Mandarin 7
AMB038	Mandarin 8

Overseas Units - All Languages

AMB041	International Intensive Program
AMB042	International Summer School or Equivalent
AMB043	In-Country Study - A
AMB044	In-Country Study - B

French

The following units are taught at UQ. Six sequenced units are required for a French Discipline Major. These can include units completed in the French Discipline Major up to 2009 as well as those from the following list:

FREN1010   French 1/Introductory French A

FREN1020   French 2/Introductory French B

FREN2010   French 3/Intermediate French A *

OR

FREN3112   French Language A *

FREN2020   French 4/Intermediate French B

OR

FREN3113   French Language B

FREN3114   French 5/French Lancuage C

FREN3115   French 6/French Language D

FREN3116   French 7/Advanced French Language **

OR

FREN3330   French for Business

OR

FREN3360   Le cinema en Francais

OR

FREN3120   French 8/Advanced Oral French

OR

FREN3210   Litterature et modernite

OR

FREN3310   Introduction to French > English Translation

OR

FREN3350   Litterature Contemporaine

* FREN2010 is third semester French for students who have done HHB061 and HHB0062 (semester 1 and 2 of beginner French). FREN3112 is first semester French for students who have successfully complete year 12 french in the last three years.

** Students who have already completed HHB066 French 6 at QUT should not enrol in FREN3116

German

The following units are taught at UQ. Six sequenced units are required for a German Discipline Major. These can include units completed in the German Discipline Major up to 2009 as well as those from the following list:

GRMN1010   German 1/Introductory German Language 1

GRMN1020   German 2/Introductory German Language 2

GRMN2010   German 3/Continuing German Language 1

GRMN2020   German 4/Continuing German Language 2

GRMN3010   German 5/Advanced German Language 1

GRMN3020   German 6/Advanced German Language 2

GRMN3110   German 7/Advanced German Language 3

GRMN3120   German 8/Advanced German Language 4

Japanese

The following units are taught at UQ. Six sequenced units are required for a Japanese Discipline Major. These can include units completed in the Japanese Discipline Major up to 2009 as well as those from the following list:

JAPN1011   Japanese 1/Introductory Japanese 1

JAPN2011   Japanese 2/Introductory Japanese 2

JAPN2101   Japanese 3/Intermediate Japanese 1

JAPN3001   Japanese 4/Intermediate Japanese 2

JAPN3101   Japanese 5/Continuing Japanese 3

JAPN3102   Japanese 6/Continuing Japanese 4

JAPN3200   Japanese 7/Multimedia Japanese

OR

JAPN3240   Modern Literary Texts

OR

JAPN3210   Polite Japanese Written & Spoken Styles

JAPN3500   Japanese 8/Language and Society in Japan

Indonesian

The following units are taught at UQ. Six sequenced units are required for a Indonesian Discipline Major. These can include units completed in the Indonesian Discipline Major up to 2009 as well as those from the following list:

INDN1000   Indonesian 1/Introductory Indonesian A

INDN1001   Indonesian 2/Introductory Indonesian B

INDN2000   Indonesian 3/Intermediate Indonesian A

INDN2001   Indonesian 4/Intermediate Indonesian B

INDN3000   Indonesian 5/Advanced Indonesian A

INDN3001   Indonesian 6/Advanced Indonesian B

INDN3003   Indonesian 7/Indonesian Through the Media

INDN3005   Indonesian 8/Indonesian Translation B

Discipline Major - Social Science

SOCIAL SCIENCE

Six (6) units are required for a Social Science Discipline Major which comprises Sociology

units and Political Studies units. These can include units completed in the Social Science Discipline Major up to 2009 as well as any completed from the following list.

Sociology

CLB403	Gender And Sexuality Issues For Teachers
JSB272	Theories of Crime
JSB372	Youth Justice
JSB378	Drugs and Crime
JSB971	Gender Crime and the Criminal Justice System
KMB003	Sex Drugs Rock 'N' Roll
MDB454	Science, Technology and Society
PYB067	Human Sexuality
PUB209	Health, Culture and Society
SWB216	The Human Dimensions of Space

Political Studies

EDB039	Indigenous Politics and Political Culture
JSB271	Policy Governance and Justice
KCB302	Political Communication
SWB218	Social Change, Politics, Policy and Activism
SWB302	Social Policy Processes

Potential Careers:

Academic, Actuary, Administrator, Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Corporate Secretary, Database Manager, Ecologist, Environmental Health Officer, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Government Officer, Health Physicist, Higher Education Worker, Hydrogeologist, Immunologist, Industrial Chemist, Information Officer, Laboratory Technician (Chemistry), Manager, Mapping Scientist/Photogrammetrist, Marine Scientist, Mathematician, Medical Biotechnologist, Medical Physicist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Network Administrator, Network Manager, Physicist, Plant Biotechnologist, Policy Officer, Population Ecologist, Programmer, Project Developer, Project Manager, Public Servant, Quantitative Analyst, Statistician, Virologist.

Bachelor of Games and Interactive Entertainment (IT04)

Year offered: 2011
Admissions: Yes
CRICOS code: 059710E
Course duration (full-time): 3 years
Domestic fees (indicative): 2011: CSP $3,878 (indicative) per semester
International Fees (indicative): 2011: $11,375 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 418102
Past rank cut-off: 74
Past OP cut-off: 13
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 288
Course coordinator: Michael Docherty
Campus: Gardens Point

Overview

Choose your career path in this multibillion dollar industry. This degree allows the development of creative skills ranging from the technical to the artistic. You will gain experience in the whole process of game and interactive media development, from identification and evaluation of ideas, creation of design concepts, critique of existing and potential products, analysis of cultural impact and industry trends, through to the development and delivery of a final product.

You will learn about the games and interactive entertainment industries through interacting with industry members, reviewing the development process of games and related products, participating in class discussions and studying industry literature. You will discover visualisation, interaction and communication techniques as applied to games and interactive media. You will be introduced to generic programming concepts and problem-solving strategies, team work, and the ethical and social responsibilities of an interactive media professional.

Why Choose This Course

This course is a collaboration between the Faculties of Science and Technology, 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.

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 organisations' 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), 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

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

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.

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 special topic. You will complete your units for your chosen major, minor and electives.

Scholarships

If you wish to enrol in the Bachelor of Information Technology, you may like to consider our Dean's Scholars Program for OP1-2 students. If you are a female high school student, you may also apply for our 'go for IT gURL' merit scholarships.

Find out more about the range of scholarships available.

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 Edcation 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.

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.

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 on deferment.

Unit Incompatibility/Translation Information

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

Further Information

FACULTY OF SCIENCE AND TECHNOLOGY

For Further Information about this course please contact:

Michael Docherty
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Bachelor of Games & Interactive Entertainment Course Structure 2011

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; Digital Media; Games Design; Sotware 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	
INB180	Computer Games Studies
INB104	Building IT Systems
INB103	Industry Insights
INB182	Introducing Design

Year 1, Semester 2	
INB181	Introduction to Games Production
	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 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

Bachelor of Games & Interactive Entertainment Majors Course structure (Block B)

Animation	
	Select 8 units from:
KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KVB105	Drawing for Design
KVB106	Drawing for Animation
KIB220	Animation Production
KIB203	Introduction to 3D Computer Graphics
KIB221	Animation: CG Toolkit
KIB225	Character Development, Conceptual Design and Animation Layout
KIB316	Virtual Environments
KIB325	Real-Time 3D Computer Graphics

Digital Media	
KIB101	Visual Communication
KIB102	Visual Interactions
INB345	Mobile Devices
INB386	Advanced Multimedia Systems
KIB309	Embodied Interactions
KIB230	Interface and Information Design
INB385	Multimedia Systems
KIB314	Tangible Media

Game Design	
INB280	Fundamentals of Game Design
INB272	Interaction Design
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB282	Games Level Design
DEB103	Visualisation 1
INB281	Advanced Game Design
KIB214	Design for Interactive Media

Software Technologies*	
	* Requirements for this Major is a SA or better in Queensland Maths B (or equivalent)
INB270	Programming
MAB281	Mathematics for Computer Graphics
INB210	Databases
INB250	Computer Architectures and Systems
INB370	Software Development
INB371	Data Structures and Algorithms
INB381	Modelling and Animation Techniques

INB382   Real Time Rendering Techniques

OR

INB383   AI for Games

Bachelor of Games & Interactive Entertainment Minors Course structure (Block C)

Students select a Minor from the following

Animation

KIB105	Animation and Motion Graphics
KVB105	Drawing for Design
KIB203	Introduction to 3D Computer Graphics
KVB106	Drawing for Animation
KIB225	Character Development, Conceptual Design and Animation Layout
KIB108	Animation History and Practices

Advanced Animation#

KIB325	Real-Time 3D Computer Graphics
KIB320	Advanced Concepts in Computer Animation 1
KIB321	Advanced Concepts in Computer Animation 2
KIB316	Virtual Environments

#Entry into this minor is limited to students enrolled in the Animation Major

Advanced Software Technologies

INB365	Systems Programming
INB372	Agile Software Development
INB374	Enterprise Software Architecture
INB382	Real Time Rendering Techniques
OR	
INB383	AI for Games

Only available to students doing the Software Technologies major

Digital Media

KIB101	Visual Communication
	OR
KIB103	Introduction to Web Design and Development
	Plus all of the following:
KIB102	Visual Interactions
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems

Entrepeneurship

BSB115	Management
MGB223	Entrepreneurship and Innovation
MGB324	Managing Business Growth
	Plus one from the following:
BSB126	Marketing
MGB200	Leading Organisations

Game Design

KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB280	Fundamentals of Game Design
INB281	Advanced Game Design
	OR
INB272	Interaction Design

Legal Issues

LWB136	Contracts A
LWB145	Legal Foundations A
	Two units selected from the following
LWB137	Contracts B
LWB142	Law, Society and Justice
LWB480	Media Law
LWB482	Internet Law
LWB486	Intellectual Property Law

Marketing

BSB126	Marketing
AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
AMB240	Marketing Planning and Management

Mathematics for Games#

MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB312	Linear Algebra

Students who have completed Maths C can substitute MAB120 with one of the following units: MAB311, MAB481 or MAB422

Mobile and Network Technologies

INB102	Emerging Technology
INB251	Networks
INB350	Internet Protocols and Services
INB353	Wireless and Mobile Networks

Sound Design

	Select 4 units from the following:
KMB107	Sound, Image, Text
KMB119	Music and Sound Production 1
KMB129	Music and Sound Production 2
KMB252	Multi-Platform Sound Design
KKB216	Graphical Development Environments for Media Interaction

Physics for Games

MAB121	Calculus and Differential Equations
PQB250	Mechanics and Electromagnetism

PQB251	Waves and Optics
	Choose 1 from the following
PQB450	Energy, Fields and Radiation
PQB460	Astrophysics 1
PCB593	Digital Image Processing

Software Technologies

INB270	Programming
INB210	Databases
INB250	Foundations of Computer Science
INB371	Data Structures and Algorithms
	This minor is not available to students who are undertaking the Software Technologies Major

Bachelor of Games & Interactive Entertainment Part time structure

The course consists of four blocks of studies

Block A: Core Studies (7 units including a 24 credit point Project completed in Semester 12)

Block B: Major (8 units) selected from Animation; Digital Media; Games Design; Sotware 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

INB180	Computer Games Studies
INB182	Introducing Design

Year 1, Semester 2

INB181	Introduction to Games Production
INB104	Building IT Systems

Year 2, Semester 1

INB103	Industry Insights
	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

Year 3, Semester 1

Block B or Block C or Block D Unit

Block B or Block C or Block D Unit

Year 3, Semester 2

Block B or Block C or Block D Unit

Block B or Block C or Block D Unit

Year 4, Semester 1

Block B or Block C or Block D Unit

Block B or Block C or Block D Unit

Year 4, Semester 2

Block B or Block C or Block D Unit

Block B or Block C or Block D Unit

Year 5, Semester 1

Block B or Block C or Block D Unit

Block B or Block C or Block D Unit

Year 5, Semester 2

Block B or Block C or Block D Unit

Block B or Block C or Block D Unit

Year 6, Semester 1

INB379	Game Project Design
	Block B or Block C or Block D Unit

Year 6, Semester 2

INB380	Games Project
	Note: Coop Ed students replace INB380 with INS011 and INS012

Bachelor of Games & Interactive Entertainment Course Structure 2010

The course consists of four blocks of studies

Block A: Core Studies (8 units including a 36 credit point Project completed over Semesters 5 & 6)

Block B: Major (8 units) selected from Animation; Digital Media; Games Design; Sotware 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

INB180	Computer Games Studies
INB104	Building IT Systems
INB103	Industry Insights
INB182	Introducing Design

Year 1, Semester 2

INB181	Introduction to Games Production
	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 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

Bachelor of Games & Interactive Entertainment Majors Course structure (Block B)

Animation

KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KVB105	Drawing for Design
KVB106	Drawing for Animation
KIB220	Animation Production
KIB203	Introduction to 3D Computer Graphics
KIB225	Character Development, Conceptual Design and Animation Layout
KIB325	Real-Time 3D Computer Graphics

Digital Media

KIB101	Visual Communication
KIB102	Visual Interactions
INB345	Mobile Devices
INB386	Advanced Multimedia Systems
KIB309	Embodied Interactions
KIB230	Interface and Information Design
INB385	Multimedia Systems
KIB314	Tangible Media

Game Design

INB280	Fundamentals of Game Design
INB272	Interaction Design
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB281	Advanced Game Design
KIB214	Design for Interactive Media

AND	Two units selected from the following:
DAB110	Architectural Design 1
DEB201	Digital Communication
DTB101	Interior Design 1
DNB101	Industrial Design 1

Software Technologies*

	* Requirements for this Major is a SA or better in Queensland Maths B (or equivalent)
INB270	Programming
MAB281	Mathematics for Computer Graphics
INB210	Databases
INB250	Systems Architecture
INB370	Software Development
INB371	Data Structures and Algorithms
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
OR	
INB383	AI for Games

Bachelor of Games & Interactive Entertainment Minors Course structure (Block C)

Students select a Minor from the following

Animation

KIB105	Animation and Motion Graphics
KVB105	Drawing for Design
KVB106	Drawing for Animation
KIB108	Animation History and Practices

Advanced Animation#

KIB221	Animation: CG Toolkit
KIB320	Advanced Concepts in Computer Animation 1
KIB321	Advanced Concepts in Computer Animation 2
KIB316	Virtual Environments
	#Entry into this minor is limited to IT04 students enrolled in the Animation Major, who have completed at least 96 credit points of study, and have gained an average grade of 5.0 or above across the following units from the Animation Major: KIB105, KIB108, KVB105, KVB106.

Advanced Software Technologies

INB365	Systems Programming
INB372	Agile Software Development
INB374	Enterprise Software Architecture
INB382	Real Time Rendering Techniques
OR	
INB383	AI for Games
	# Only available to students doing the Software Technologies major

Digital Media

KIB101	Visual Communication
KIB102	Visual Interactions
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems

Entrepeneurship

BSB115	Management
MGB223	Entrepreneurship and Innovation
MGB324	Managing Business Growth
	Plus one from the following:
BSB126	Marketing
MGB200	Leading Organisations

Game Design

KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB280	Fundamentals of Game Design
INB281	Advanced Game Design
	OR
INB272	Interaction Design

Legal Issues

LWB141	Legal Institutions and Method
LWB136	Contracts A
	Two units selected from the following
LWB137	Contracts B
LWB142	Law, Society and Justice
LWB480	Media Law
LWB482	Internet Law
LWB486	Intellectual Property Law

Marketing

BSB126	Marketing
	Three units selected from the following
AMB251	Innovation and Brand Management
AMB240	Marketing Planning and Management
AMB201	Marketing and Audience Research
AMB359	Strategic Marketing

Mathematics for Games#

MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB312	Linear Algebra
	# Students who have completed Maths C can substitute MAB120 with one of the following units: MAB311, MAB481 or MAB422

Mobile and Network Technologies

INB102	Emerging Technology
INB251	Networks
INB350	Internet Protocols and Services
INB353	Wireless and Mobile Networks

Sound Design

KMB106	Music and Sound for Multimedia
KMB107	Sound, Image, Text
KMB119	Music and Sound Production 1
KMB129	Music and Sound Production 2

Software Technologies

INB270	Programming
INB210	Databases
INB250	Systems Architecture
INB371	Data Structures and Algorithms
	This minor is not available to students who are undertaking the Software Technologies Major

Physics for Games

MAB121	Calculus and Differential Equations
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
	Choose 1 from the following
PQB450	Energy, Fields and Radiation
PQB460	Astrophysics 1
PCB593	Digital Image Processing

Bachelor of Games & Interactive Entertainment Course structure 2009

The course consists of four blocks of studies

Block A: Core Studies (6 units plus a 24 credit point Project completed in Semester 6)

Block B: Major (8 units) selected from Animation; Digital Media; 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

INB180	Computer Games Studies
INB104	Building IT Systems
INB103	Industry Insights
INB204	Special Topic 1

Year 1, Semester 2

INB181	Introduction to Games Production
	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit

Year 2, Semester 1

	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit

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

Bachelor of Games & Interactive Entertainment Majors Course structure

Animation

KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KIB225	Character Development, Conceptual Design and Animation Layout
KIB203	Introduction to 3D Computer Graphics
KIB325	Real-Time 3D Computer Graphics
KIB316	Virtual Environments
KVB105	Drawing for Design
KVB106	Drawing for Animation

Digital Media

KIB101	Visual Communication
KIB102	Visual Interactions
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
INB345	Mobile Devices
KIB230	Interface and Information Design
KIB309	Embodied Interactions
KIB314	Tangible Media

Game Design

INB281	Advanced Game Design
INB280	Fundamentals of Game Design
INB272	Interaction Design
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
KIB214	Design for Interactive Media
AND	Two units selected from the following:
DEB201	Digital Communication
DAB110	Architectural Design 1
DTB101	Interior Design 1
DNB101	Industrial Design 1

Software Technologies*

	* Requirements for this Major is a SA or better in Queensland Maths B (or equivalent)
INB270	Programming
INB210	Databases
INB250	Systems Architecture
INB371	Data Structures and Algorithms
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
INB370	Software Development
MAB281	Mathematics for Computer Graphics
OR	
INB304	Special Topic 3

Bachelor of Games & Interactive Entertainment Minors Course structure

Students select a Minor from the following

Animation

KIB105	Animation and Motion Graphics
KVB105	Drawing for Design
KVB106	Drawing for Animation
KIB108	Animation History and Practices

Advanced Animation#

KIB212	Animation Studio 1: Preproduction
KIB213	Animation Studio 2: CG Toolkit
	#Entry into this minor is limited to IT04 students enrolled in the Animation Major, who have completed at least 96 credit points of study, and have gained an average grade of 5.0 or above across the following units from the Animation Major: KIB105, KIB108, KVB105, KVB106.

Advanced Software Technologies

INB365	Systems Programming
INB372	Agile Software Development
INB374	Enterprise Software Architecture
INB382	Real Time Rendering Techniques

OR

INB304	Special Topic 3

Only available to students doing the Software Technologies major

Digital Media

KIB101	Visual Communication
KIB102	Visual Interactions
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems

Entrepeneurship

BSB115	Management
MGB223	Entrepreneurship and Innovation
MGB324	Managing Business Growth

Plus one from the following:

BSB126	Marketing
MGB200	Leading Organisations

Game Design

KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB280	Fundamentals of Game Design
INB281	Advanced Game Design

OR

INB272	Interaction Design

Legal Issues

LWB141	Legal Institutions and Method
LWB136	Contracts A

Two units selected from the following

LWB137	Contracts B
LWB142	Law, Society and Justice
LWB480	Media Law
LWB482	Internet Law
LWB486	Intellectual Property Law

Marketing

BSB126	Marketing

Three units selected from the following

AMB251	Innovation and Brand Management
AMB240	Marketing Planning and Management
AMB201	Marketing and Audience Research
AMB359	Strategic Marketing

Mathematics for Games#

MAB100	Mathematical Sciences 1A
MAB111	Mathematical Sciences 1B
MAB112	Mathematical Sciences 1C
MAB312	Linear Algebra

Students who have completed Maths C can substitute MAB100 with one of the following units: MAB311, MAB481 or MAB422

Mobile and Network Technologies

INB102	Emerging Technology
INB251	Networks
INB350	Internet Protocols and Services
INB353	Wireless and Mobile Networks

Sound Design

KMB105	Music and Sound Technology
KMB106	Music and Sound for Multimedia
KMB107	Sound, Image, Text
KMB108	Sound Recording and Acoustics

Software Technologies

INB270	Programming
INB210	Databases
INB250	Systems Architecture
INB371	Data Structures and Algorithms

This minor is not available to students who are undertaking the Software Technologies Major

Physics for Games

MAB111	Mathematical Sciences 1B
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics

Choose 1 from the following

PQB450	Energy, Fields and Radiation
PQB460	Astrophysics 1
PCB593	Digital Image Processing

Bachelor of Games & Interactive Entertainment Course structure 2008

The course consists of four blocks of studies

Block A: Core Studies (6 units plus a 24 credit point Project completed in Semester 6)

Block B: Major (8 units) selected from Animation and Computational Art; Digital Media; Games Design; Sotware Technologies

Block C: Minor (4 units)

Block D: Electives (4 units)

Students who choose to complete the Cooperative Education Program replace an IT general elective with ITS010

Year 1, Semester 1

ITB750	Computer Game Studies
ITB001	Problem Solving and Programming
ITB002	IT Professional Studies
DEB101	Introducing Design

Year 1, Semester 2

ITB751	Games Production
	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit

Year 2, Semester 1

	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit

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

ITB009	Core Project Management
	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

ITB020	Project
	Block B or Block C or Block D Unit
	Block B or Block C or Block D Unit

Bachelor of Games & Interactive Entertainment Majors Course structure

Block B Majors (8 units)

Animation and Computational Arts

KIB105	Animation and Motion Graphics
KIB106	Character Development, Conceptual Design and Animation Layout
KIB107	Introduction to Programming for 3D
KIB108	Animation Practices
KVB105	Foundations of Drawing for Animation 1
KVB106	Foundations of Drawing for Animation 2
KKB210	Computational Arts 1
KKB211	Computational Arts 2

Digital Media

KIB101	Foundations of Communication Design 1
KIB102	Foundations of Communication Design 2
KIB103	Media Technology 1
ITB254	Interaction Design
ITB257	Multimedia Systems
ITB259	Advanced Multimedia Systems

2 more units as per discussion with course coordinator

Game Design

ITB016	Fundamentals of Games Design
ITB017	Advanced Games Design
KIB201	Interactive Writing
KIB202	Enabling Immersion
KIB310	Design Studio 3: Virtual Environments
	Two units selected from the following
DEB201	Digital Communication
DEB102	Introducing Design History
DAB110	Introductory Architectural Design 1
DTB101	Interior Design 1
DNB101	Industrial Design 1

Software Technologies*

	* This Major assumes students have obtained a SA or better in Queensland Maths B (or equivalent)
ITB003	Object Oriented Programming
ITB004	Database Systems
ITB005	Systems Architecture
ITB702	Algorithms and Data Structures
ITB746	Modelling and Animation Techniques
ITB747	Real Time Rendering Techniques
ITB749	Scientific Programming
MAB281	Mathematics for Computer Graphics

Bachelor of Games & Interactive Entertainment Minors Course structure

Students select a Minor from the following

Animation

	This minor is not availabel to students who are undertaking the Animation and Computational Arts Major
KIB105	Animation and Motion Graphics
KIB107	Introduction to Programming for 3D
KVB105	Foundations of Drawing for Animation 1
KVB106	Foundations of Drawing for Animation 2
OR	
KIB108	Animation Practices

Advanced Animation#

KIB212	Animation Studio 1: Preproduction
KIB213	Animation Studio 2: CG Toolkit
	#This Minor is only available to students who are undertaking the Animation and Computational Arts Major. As resources are limited, entry will be determined on the basis of a student's academic performance in the units KIB105, KIB107, KIB108 and KVB105.

Computational Arts

ITB003	Object Oriented Programming
KKB210	Computational Arts 1
KKB211	Computational Arts 2
KIB106	Character Development, Conceptual Design and Animation Layout

Digital Media

ITB254	Interaction Design
ITB257	Multimedia Systems
ITB259	Advanced Multimedia Systems
KIB101	Foundations of Communication Design 1
	or
KIB103	Media Technology 1

Entrepeneurship

BSB115	Management, People and Organisations
MGB223	Entrepreneurship and Innovation
	OR
MGB218	Managing Business Growth
AMB240	Marketing Planning and Management
AMB251	Innovation and Market Development

Game Design

KIB201	Interactive Writing
KIB202	Enabling Immersion
ITB017	Advanced Games Design
ITB016	Fundamentals of Games Design

Legal Issues

LWB141	Legal Institutions and Method
LWB136	Contracts A

Two units selected from the following

LWB137	Contracts B
LWB142	Law, Society and Justice
LWB480	Media Law
LWB486	Intellectual Property Law

Marketing

BSB126	Marketing

Three units selected from the following

AMB251	Innovation and Market Development
AMB240	Marketing Planning and Management
AMB201	Marketing and Audience Research
AMB341	Strategic Marketing

Mathematics for Games#

MAB100	Mathematical Sciences 1A
MAB111	Mathematical Sciences 1B
MAB112	Mathematical Sciences 1C
MAB312	Linear Algebra

Students who have completed Maths C can substitute MAB100 with one of the following units: MAB311, MAB481 or MAB422

Mobile and Network Technologies*

ITB006	Networks
ITB720	Internet Protocols and Services
ITB730	Information Security Fundamentals
ITB723	Wireless and Mobile Networks

*This Minor is only available to students who are undertaking the Sotware Technologies Major

Sound Design

KMB105	Music and Sound Technology
KMB106	Music and Sound for Multimedia
KMB107	Sound, Image, Text
KMB108	Sound Recording and Acoustics

Physics for Games

PCB107	Physics and Quantitative Techniques
PCB460	Instrumentation and Computational Methods
PCB593	Digital Image Processing
PQB251	Waves and Optics

Software Technologies

ITB003	Object Oriented Programming
ITB004	Database Systems
ITB005	Systems Architecture
ITB749	Scientific Programming

This minor is not available to students who are undertaking the Software Technologies Major

IT Elective List

IT Elective Units

INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB313	Electronic Commerce Site Development
INB374	Enterprise Software Architecture
INB386	Advanced Multimedia Systems
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB323	Smart Services
INB330	Information Management
INB331	Management Issues for Information Professionals
INB334	Information Issues and Values
INB335	Information Resources

INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks
INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development
INB374	Enterprise Software Architecture
INB204	Special Topic 1
INB205	Special Topic 2
INB300	Professional Practice in IT
INB305	Special Topic 4
INB304	Special Topic 3
INS350	CCNA 1&2 Network Fundamentals and Routing
INS352	CCNP1: Building Scalable Internetworks
INS351	CCNA 3&4 Lan Switching
INS353	CCNP 2: Building Multi Layered Switched Networks
INS354	CCNP3: Building Multi Layered Switched Networks
INS355	CCNP 4: Optimising Converged Networks
INB306	Project 1
INB307	Project 2
INB308	Project 3
INB365	Systems Programming
INB355	Cryptology and Protocols
INB860	Computational Intelligence for Control and Embedded Systems
INB346	Enterprise 2.0
INB345	Mobile Devices
INB347	Web 2.0 Applications
INB334	Information Issues and Values

Potential Careers:

Animator, Computer Game Programmer, Computer Games Developer, Computer Systems Engineer, Multimedia Designer, Programmer, Project Developer, Project Manager, Software Engineer, Technical Officer, Web Designer.

Bachelor of Games and Interactive Entertainment - Dean's Scholars Program (IT04)

Year offered: 2011
Admissions: Yes
CRICOS code: 059710E
Course duration (full-time): 3 years
Domestic fees (indicative): 2011: CSP $3,878 (indicative) per semester
International Fees (indicative): 2011: $11,375 (indicative) per semester
Domestic Entry: February: Fixed closing date - 26th November, 2010
International Entry: February: Fixed closing date - 26th Novemeber, 2010. This course is only available to international students completing Year 12 in Australia
QTAC code: 418002
Past rank cut-off: 97 plus successful questionnaire and interview. Please refer to Additional Entry Requirements.
Past OP cut-off: 2 plus successful questionnaire and interview. Please refer to Additional Entry Requirements.
Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Course coordinator: Richard Thomas
Campus: Gardens Point

Overview

The Dean's Scholars Program is an accelerated honours program allowing completion of the Bachelor of Games and Interactive Entertainment and an honours degree in three years instead of four years. This accelerated program is designed for students with an OP 1 or 2 (or equivalent), who can also demonstrate active involvement in their school and local community activities.

The Bachelor of Games and Interactive Entertainment gives you the opportunity to join the growing industry of digital entertainment and electronic games by acquiring expertise in the development of computer games and other forms of interactive media. The course has a strong foundation in both entertainment technology and creative skills. You can choose your primary area of study from Animation and Computational Arts, Digital Media, Game Design or Software Technologies.

You will gain experience in the whole process of game and interaction development, from identification and evaluation of ideas, creation of design concepts, critique of existing and potential products, analysis of cultural impact and industry trends, right through to the development and delivery of a final product.

Why Choose This Course

This course is a collaboration between the Faculties of Science and Technology, 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.

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 organisations' 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), 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.

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.

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.

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.

Prerequisites

Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia; successful questionnaire; interview.

Financial Support

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

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

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

OP Guarantee

The OP Guarantee does not apply to this program.

Deferment

QUT's deferment policy does not apply to this course.

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 Edcation 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

Fixed Closing Date

Applications for this program will close on 26 November, 2010.

Additional Entry Requirements

Applicants are required to complete a questionnaire.

Further Information

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

Michael Docherty
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Bachelor of Games and Interactive Entertainment - Dean's Scholars Program

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; Digital Media; Games Design; Sotware Technologies
Block C: Minor (4 units)
Block D: Electives (4 units)

Year 1, Semester 1	
INB180	Computer Games Studies
INB104	Building IT Systems
INB103	Industry Insights
INB182	Introducing Design

Year 1, Semester 2	
INB181	Introduction to Games Production
	Block B or Block C Unit or Block D Unit
	Block B or Block C Unit or Block D Unit
	Block B or Block C Unit or Block D Unit
	Block B or Block C Unit or Block D Unit

Year 2, Semester 1	
	Block B or Block C Unit or Block D Unit
	Block B or Block C Unit or Block D Unit
	Block B or Block C Unit or Block D Unit

	Block B or Block C Unit or Block D Unit
	Block B or Block C Unit 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
INB379	Game Project Design

Year 3, Semester 1	
INB380	Games Project
	Block B or Block C or Block D Unit
	Block B or Block C or Block D Unit
	Postgraduate IT Elective

Year 3, Semester 2	
INN700	Introduction To Research
INN701	Advanced Research Topics
INN401	Honours Dissertation 1
	Postgraduate IT Elective

Year 3, Summer	
INN402	Honours Dissertation 2
INN403	Honours Dissertation 3
INN404	Honours Dissertation 4

Bachelor of Games & Interactive Entertainment Majors Course structure (Block B)

Animation	
	Select 8 units from:
KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KVB105	Drawing for Design
KVB106	Drawing for Animation
KIB220	Animation Production
KIB203	Introduction to 3D Computer Graphics
KIB221	Animation: CG Toolkit
KIB225	Character Development, Conceptual Design and Animation Layout
KIB316	Virtual Environments
KIB325	Real-Time 3D Computer Graphics

Digital Media	
KIB101	Visual Communication
KIB102	Visual Interactions
INB345	Mobile Devices
INB386	Advanced Multimedia Systems
KIB309	Embodied Interactions
KIB230	Interface and Information Design

INB385	Multimedia Systems
KIB314	Tangible Media

Game Design

INB280	Fundamentals of Game Design
INB272	Interaction Design
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB282	Games Level Design
DEB103	Visualisation 1
INB281	Advanced Game Design
KIB214	Design for Interactive Media

Software Technologies*

	* Requirements for this Major is a SA or better in Queensland Maths B (or equivalent)
INB270	Programming
MAB281	Mathematics for Computer Graphics
INB210	Databases
INB250	Computer Architectures and Systems
INB370	Software Development
INB371	Data Structures and Algorithms
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
OR	
INB383	AI for Games

Bachelor of Games & Interactive Entertainment Minors Course structure (Block C)

Students select a Minor from the following

Animation

KIB105	Animation and Motion Graphics
KVB105	Drawing for Design
KIB203	Introduction to 3D Computer Graphics
KVB106	Drawing for Animation
KIB225	Character Development, Conceptual Design and Animation Layout
KIB108	Animation History and Practices

Advanced Animation#

KIB325	Real-Time 3D Computer Graphics
KIB320	Advanced Concepts in Computer Animation 1
KIB321	Advanced Concepts in Computer Animation 2
KIB316	Virtual Environments
	#Entry into this minor is limited to students enrolled in the Animation Major

Advanced Software Technologies

INB365	Systems Programming

INB372	Agile Software Development
INB374	Enterprise Software Architecture
INB382	Real Time Rendering Techniques
OR	
INB383	AI for Games
	# Only available to students doing the Software Technologies major

Digital Media

KIB101	Visual Communication
	OR
KIB103	Introduction to Web Design and Development
	Plus all of the following:
KIB102	Visual Interactions
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems

Entrepeneurship

BSB115	Management
MGB223	Entrepreneurship and Innovation
MGB324	Managing Business Growth
	Plus one from the following:
BSB126	Marketing
MGB200	Leading Organisations

Game Design

KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB280	Fundamentals of Game Design
INB281	Advanced Game Design
	OR
INB272	Interaction Design

Legal Issues

LWB136	Contracts A
LWB145	Legal Foundations A
	Two units selected from the following
LWB137	Contracts B
LWB142	Law, Society and Justice
LWB480	Media Law
LWB482	Internet Law
LWB486	Intellectual Property Law

Marketing

BSB126	Marketing
AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
AMB240	Marketing Planning and Management

Mathematics for Games#

MAB120   Algebra and Calculus

MAB121   Calculus and Differential Equations

MAB122   Algebra and Analytic Geometry

MAB312   Linear Algebra

\# Students who have completed Maths C can substitute MAB120 with one of the following units: MAB311, MAB481 or MAB422

Mobile and Network Technologies

INB102   Emerging Technology

INB251   Networks

INB350   Internet Protocols and Services

INB353   Wireless and Mobile Networks

Sound Design

Select 4 units from the following:

KMB107   Sound, Image, Text

KMB119   Music and Sound Production 1

KMB129   Music and Sound Production 2

KMB252   Multi-Platform Sound Design

KKB216   Graphical Development Environments for Media Interaction

Physics for Games

MAB121   Calculus and Differential Equations

PQB250   Mechanics and Electromagnetism

PQB251   Waves and Optics

Choose 1 from the following

PQB450   Energy, Fields and Radiation

PQB460   Astrophysics 1

PCB593   Digital Image Processing

Software Technologies

INB270   Programming

INB210   Databases

INB250   Foundations of Computer Science

INB371   Data Structures and Algorithms

This minor is not available to students who are undertaking the Software Technologies Major

Bachelor of Games & Interactive Entertainment Majors Course structure (Block B)

Animation

KIB105   Animation and Motion Graphics

KIB108   Animation History and Practices

KVB105   Drawing for Design

KVB106   Drawing for Animation

KIB220   Animation Production

KIB203   Introduction to 3D Computer Graphics

KIB225   Character Development, Conceptual Design and Animation Layout

KIB325   Real-Time 3D Computer Graphics

Digital Media

KIB101   Visual Communication

KIB102   Visual Interactions

INB345   Mobile Devices

INB386   Advanced Multimedia Systems

KIB309   Embodied Interactions

KIB230   Interface and Information Design

INB385   Multimedia Systems

KIB314   Tangible Media

Game Design

INB280   Fundamentals of Game Design

INB272   Interaction Design

KIB201   Concept Development for Game Design and Interactive Media

KIB202   Enabling Immersion

INB281   Advanced Game Design

KIB214   Design for Interactive Media

AND   Two units selected from the following:

DAB110   Architectural Design 1

DEB201   Digital Communication

DTB101   Interior Design 1

DNB101   Industrial Design 1

Software Technologies*

* Requirements for this Major is a SA or better in Queensland Maths B (or equivalent)

INB270   Programming

MAB281   Mathematics for Computer Graphics

INB210   Databases

INB250   Systems Architecture

INB370   Software Development

INB371   Data Structures and Algorithms

INB381   Modelling and Animation Techniques

INB382   Real Time Rendering Techniques

OR

INB383   AI for Games

Bachelor of Games & Interactive Entertainment Minors Course structure (Block C)

Students select a Minor from the following

Animation

KIB105   Animation and Motion Graphics

KVB105   Drawing for Design

KVB106   Drawing for Animation

KIB108   Animation History and Practices

Advanced Animation\#

KIB221	Animation: CG Toolkit
KIB320	Advanced Concepts in Computer Animation 1
KIB321	Advanced Concepts in Computer Animation 2
KIB316	Virtual Environments

#Entry into this minor is limited to IT04 students enrolled in the Animation Major, who have completed at least 96 credit points of study, and have gained an average grade of 5.0 or above across the following units from the Animation Major: KIB105, KIB108, KVB105, KVB106.

Advanced Software Technologies

INB365	Systems Programming
INB372	Agile Software Development
INB374	Enterprise Software Architecture
INB382	Real Time Rendering Techniques
OR	
INB383	AI for Games

Only available to students doing the Software Technologies major

Digital Media

KIB101	Visual Communication
KIB102	Visual Interactions
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems

Entrepeneurship

BSB115	Management
MGB223	Entrepreneurship and Innovation
MGB324	Managing Business Growth
	Plus one from the following:
BSB126	Marketing
MGB200	Leading Organisations

Game Design

KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB280	Fundamentals of Game Design
INB281	Advanced Game Design
	OR
INB272	Interaction Design

Legal Issues

LWB141	Legal Institutions and Method
LWB136	Contracts A
	Two units selected from the following
LWB137	Contracts B
LWB142	Law, Society and Justice
LWB480	Media Law
LWB482	Internet Law

| LWB486 | Intellectual Property Law |

Marketing

BSB126	Marketing
	Three units selected from the following
AMB251	Innovation and Brand Management
AMB240	Marketing Planning and Management
AMB201	Marketing and Audience Research
AMB359	Strategic Marketing

Mathematics for Games#

MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB312	Linear Algebra

Students who have completed Maths C can substitute MAB120 with one of the following units: MAB311, MAB481 or MAB422

Mobile and Network Technologies

INB102	Emerging Technology
INB251	Networks
INB350	Internet Protocols and Services
INB353	Wireless and Mobile Networks

Sound Design

KMB106	Music and Sound for Multimedia
KMB107	Sound, Image, Text
KMB119	Music and Sound Production 1
KMB129	Music and Sound Production 2

Software Technologies

INB270	Programming
INB210	Databases
INB250	Systems Architecture
INB371	Data Structures and Algorithms

This minor is not available to students who are undertaking the Software Technologies Major

Physics for Games

MAB121	Calculus and Differential Equations
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
	Choose 1 from the following
PQB450	Energy, Fields and Radiation
PQB460	Astrophysics 1
PCB593	Digital Image Processing

Postgraduate IT Units

Unit List:

| INN210 | Databases |

INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN281	Advanced Game Design
INN282	Games Level Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN323	Smart Services
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN334	Information Issues and Values
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN383	AI for Games
INN385	Multimedia Systems

INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN546	Major Issues in Health Technology
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology

Students must first seek permission from the Course Coordinator to enrol in the following:

INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

Potential Careers:

Animator, Computer Game Programmer, Computer Games Developer, Multimedia Designer, Programmer, Software Engineer, Web Designer.

Bachelor of Corporate Systems Management (IT06)

Year offered: 2011
Admissions: Yes
CRICOS code: 059712C
Course duration (full-time): 3 years
Domestic fees (indicative): 2011: CSP $3,961 (indicative) per semester
International Fees (indicative): 2011: $11,250 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 418301
Past rank cut-off: 74
Past OP cut-off: 13
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 288
Course coordinator: Dr Taizan Chan
Campus: Gardens Point

Overview

Are you a creative thinker? Are you intrigued by new and evolving applications of information technology (such as cloud computing, 4G smart phones and Google Buzz)? Are you someone who is interested in the growing importance and impact of these applications on individuals, organisations and society, and who seeks to effectively apply them in the business world? If your answer is 'yes', then this is the degree for you.

This is an IT degree for business thinkers. It will give you the edge in understanding the relationships between information, technology, business and people. Today, business success depends on the identification and application of the right information technology solutions at the right cost within the right timeframe. This degree will introduce you to up-to-the minute business and IT knowledge and enable you to harness your creativity and apply your knowledge in the real world. You will learn to analyse business needs and devise IT-enabled business systems and tools that deliver information solutions to the key people via the most appropriate technologies.

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.

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.

Scholarships
If you wish to enrol in the Bachelor of Information Technology, you may like to consider our Dean's Scholars Program for OP1-2 students. If you are a female high school student, you may also apply for our 'go for IT gURL' merit scholarships.

Find out more about the range of scholarships available.

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.

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.

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 on deferment.

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

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

Course Co-ordinator
Dr Taizan Chan
Phone: +61 73138 2782

Email: enquiry.scitech@qut.edu.au

Bachelor of Corporate Systems Management 2011

Course Structure 2011

Year 1, Semester 1

INB103	Industry Insights
INB120	Corporate Systems
INB101	Impact of IT
INB122	Organisational Databases

Year 1, Semester 2

BSB115	Management
INB123	Project Management Practice
INB124	Information Systems Development
	Block B Unit

Year 2, Semester 1

INB220	Business Analysis
INB221	Technology Management
MGB223	Entrepreneurship and Innovation
	Block B Unit

Year 2, Semester 2

BSB126	Marketing
INB313	Electronic Commerce Site Development
	Block B Unit
	Block B Unit

Year 3, Semester 1

INB312	Enterprise Systems Applications
INB322	Information Systems Consulting
	Block B Unit
	Block B Unit

Year 3, Semester 2

INB320	Business Process Modelling
INB325	Corporate Systems Management Project
	Block B Unit
	Block B Unit

Block B: Complimentary Studies

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

Banking and Finance

BSB113	Economics
BSB123	Data Analysis
EFB201	Financial Markets
EFB210	Finance 1
EFB222	Quantitative Methods For Economics and Finance
EFB223	Economics 2
EFB307	Finance 2
EFB312	International Finance

Creative Industries Management

KTB104	Performance Innovation
KTB207	Staging Australia
KTB210	Creative Industries Management
KTB211	Creative Industries Events and Festivals

Construction Management - Administration

UDB101	Stewardship of Land
UDB104	Urban Development Economics
UDB110	Residential Construction and Engineering
UDB111	Engineering Construction Materials

Human Resource Management

MGB200	Leading Organisations
MGB201	Contemporary Employment Relations
MGB207	Human Resource Issues and Strategy
MGB314	Organisational Consulting and Change
MGB320	Recruitment and Selection
MGB331	Learning and Development in Organisations
MGB339	Performance and Reward
MGB370	Personal and Professional Development

Law

LWB136	Contracts A
LWB137	Contracts B
LWB145	Legal Foundations A
LWB146	Legal Foundations B
LWB238	Fundamentals of Criminal Law
LWB241	Trusts
LWB242	Constitutional Law
LWB334	Corporate Law

Management

BSB111	Business Law and Ethics
BSB113	Economics
BSB119	Global Business
BSB124	Working in Business
MGB200	Leading Organisations
MGB210	Managing Operations
MGB309	Strategic Management
MGB324	Managing Business Growth

Marketing

| AMB200 | Consumer Behaviour |
| AMB201 | Marketing and Audience Research |

AMB240	Marketing Planning and Management
AMB335	E-marketing Strategies
AMB359	Strategic Marketing

Organisational Psychology

PYB007	Interpersonal Processes and Skills
PYB100	Foundation Psychology
PYB202	Social and Organisational Psychology
PYB302	Industrial and Organisational Psychology

Public Health

PUB251	Contemporary Public Health
PUB326	Epidemiology
PUB332	Sustainable Environments For Health
PUB406	Health Promotion Practice

Justice (Criminology)

JSB170	Introduction to Criminology and Policing
JSB171	Justice and Society
JSB272	Theories of Crime
JSB273	Crime Research Methods
JSB372	Youth Justice
JSB373	Punishment and Penal Policy
JSB374	Crime Prevention
LWB145	Legal Foundations A

Specialisation - IT (Digital Environments)

INB104	Building IT Systems
INB210	Databases
INB270	Programming
INB335	Information Resources
INB340	Database Design
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications

Intermediate Level Electives

INB120	Corporate Systems
INB220	Business Analysis
INB255	Security
INB272	Interaction Design
	Or, an INB300 level unit as approved by the course coordinator

Bachelor of Corporate Systems Management 2010

Course Structure 2010

Year 1, Semester 1

INB103	Industry Insights
INB120	Corporate Systems
INB101	Impact of IT

INB122	Organisational Databases

Year 1, Semester 2

BSB115	Management
INB123	Project Management Practice
INB124	Information Systems Development
	Block B Unit

Year 2, Semester 1

INB220	Business Analysis
INB221	Technology Management
MGB223	Entrepreneurship and Innovation
	Block B Unit

Year 2, Semester 2

BSB126	Marketing
INB313	Electronic Commerce Site Development
	Block B Unit
	Block B Unit

Year 3, Semester 1

INB312	Enterprise Systems Applications
INB322	Information Systems Consulting
	Block B Unit
	Block B Unit

Year 3, Semester 2

INB320	Business Process Modelling
INB325	Corporate Systems Management Project
	Block B Unit
	Block B Unit

Block B: Complementary Studies

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

Information Management/Information Technology Management

INB312	Enterprise Systems Applications
INB335	Information Resources

Adult and Community Leaning

SPB100	Introduction to Adult Learning and Development
SPB106	Managing Learning Organisations

Banking and Finance

BSB113	Economics
BSB122	Quantitative Analysis and Finance
EFB101	Data Analysis for Business
EFB102	Economics 2

EFB201	Financial Markets
EFB210	Finance 1
EFB307	Finance 2
EFB312	International Finance

Business Systems Engineering

INB210	Databases
INB270	Programming
INB311	Enterprise Systems
	Intermediate Level IT Elective

Creative Industries Management

KTB210	Creative Industries Management
KTB211	Creative Industries Events and Festivals
KTB104	Performance Innovation
KTB207	Staging Australia

Construction Management - Administration

UDB101	Stewardship of Land
UDB104	Urban Development Economics
UDB110	Residential Construction and Engineering
UDB111	Engineering Construction Materials

Databases

INB210	Databases
INB270	Programming
INB340	Database Design
INB342	Enterprise Data Mining
	Intermediate Level IT Elective

Electronic Business

BSB212	Electronic Business Applications
BSB213	Governance Issues in E-Business
BSB314	E-Business Intelligence
INB210	Databases
INB271	The Web
INB311	Enterprise Systems
INB342	Enterprise Data Mining

Entrepreneurship

AMB240	Marketing Planning and Management
AMB251	Innovation and Brand Management

Human Resource Management

MGB207	Human Resource Issues and Strategy
MGB211	Organisational Behaviour
MGB314	Organisational Consulting and Change

Law

LWB136	Contracts A
LWB137	Contracts B

LWB141	Legal Institutions and Method
LWB142	Law, Society and Justice
LWB144	Laws and Global Perspectives
LWB482	Internet Law
LWB484	Electronic Commerce and Technology Contracts

Management

MGB210	Managing Operations
MGB211	Organisational Behaviour
MGB220	Business Research Methods
MGB222	Managing Organisations
MGB309	Strategic Management
MGB334	Managing in a Changing Environment

Marketing

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
AMB240	Marketing Planning and Management
AMB241	E-Marketing Strategies
AMB341	Strategic Marketing

Organisational Psychology

PYB007	Interpersonal Processes and Skills
PYB012	Psychology
PYB202	Social and Organisational Psychology
PYB302	Industrial and Organisational Psychology

Public Health

PUB251	Contemporary Public Health
PUB326	Epidemiology
PUB332	Sustainable Environments For Health
PUB406	Health Promotion Practice

Intermediate Level Electives

INB120	Corporate Systems
INB220	Business Analysis
INB255	Security
INB272	Interaction Design
	Or, an INB300 level unit as approved by the course coordinator

Bachelor of Corporate Systems Management 2009

Course Structure - 2009

Year 1, Semester 1

INB103	Industry Insights
INB120	Corporate Systems
INB101	Impact of IT
INB122	Organisational Databases

FACULTY OF SCIENCE AND TECHNOLOGY

Year 1, Semester 2

BSB115	Management
INB123	Project Management Practice
INB124	Information Systems Development
	Block B Unit

Year 2, Semester 1

INB220	Business Analysis
INB221	Technology Management
MGB223	Entrepreneurship and Innovation
	Block B Unit

Year 2, Semester 2

BSB126	Marketing
INB313	Electronic Commerce Site Development
	Block B Unit
	Block B Unit

Year 3, Semester 1

INB312	Enterprise Systems Applications
INB322	Information Systems Consulting
	Block B Unit
	Block B Unit

Year 3, Semester 2

INB320	Business Process Modelling
INB325	Corporate Systems Management Project
	Block B Unit
	Block B Unit

Block B: Complementary Studies

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

Information Management/Information Technology Management

| INB312 | Enterprise Systems Applications |
| INB335 | Information Resources |

Adult and Community Leaning

| SPB100 | Introduction to Adult Learning and Development |
| SPB102 | Professional Communication in Adult Learning Contexts |

Finance

BSB113	Economics
BSB123	Data Analysis
EFB101	Data Analysis for Business
EFB102	Economics 2
EFB201	Financial Markets
EFB210	Finance 1
EFB307	Finance 2
EFB312	International Finance

Business Systems Engineering

INB210	Databases
INB270	Programming
INB311	Enterprise Systems
	Intermediate Level IT Elective

Creative Industries Management

KTB061	Creative Industries Management
KTB062	Creative Industries Events and Festivals
KTB104	Performance Innovation
KTB207	Staging Australia

Construction Management - Administration

UDB101	Stewardship of Land
UDB104	Urban Development Economics
UDB110	Residential Construction and Engineering
UDB111	Engineering Construction Materials

Databases

INB210	Databases
INB270	Programming
INB340	Database Design
INB342	Enterprise Data Mining
	Intermediate Level IT Elective

Forensics

BSB212	Electronic Business Applications
BSB213	Governance Issues in E-Business
BSB314	E-Business Intelligence
INB210	Databases
INB271	The Web
INB311	Enterprise Systems
INB342	Enterprise Data Mining

Entrepreneurship

| AMB240 | Marketing Planning and Management |
| AMB251 | Innovation and Brand Management |

Human Resource Management

MGB207	Human Resource Issues and Strategy
MGB211	Organisational Behaviour
MGB314	Organisational Consulting and Change

International Studies

HHB107	World Regions
HHB223	Islam and Islamic Societies
HHB263	Politics Of Globalisation

Law

LWB136	Contracts A
LWB137	Contracts B
LWB141	Legal Institutions and Method
LWB142	Law, Society and Justice
LWB144	Laws and Global Perspectives
LWB482	Internet Law
LWB484	Electronic Commerce and Technology Contracts

Management

MGB210	Managing Operations
MGB211	Organisational Behaviour
MGB220	Business Research Methods
MGB222	Managing Organisations
MGB309	Strategic Management
MGB334	Managing in a Changing Environment

Marketing

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
AMB240	Marketing Planning and Management
AMB241	E-Marketing Strategies
AMB341	Strategic Marketing

Organisational Psychology

PYB007	Interpersonal Processes and Skills
PYB012	Psychology
PYB205	Social Psychology
PYB302	Industrial and Organisational Psychology

Public Health

PUB251	Contemporary Public Health
PUB326	Epidemiology
PUB329	Foundations of Health Studies and Health Behaviour
PUB406	Health Promotion Strategies

Intermediate Level Electives

INB120	Corporate Systems
INB220	Business Analysis
INB255	Security
INB272	Interaction Design
	Or, an INB300 level unit as approved by the course coordinator

Bachelor of Corporate Systems Management 2008

Course Outline - 2008

Block A: Core Units (16 Units)

Block B: Complementary Studies (8 units)

Year 1, Semester 1

ITB002	IT Professional Studies
ITB360	Corporate Systems
ITB361	Socio-technical Systems
ITB362	Organisational Databases

Year 1, Semester 2

BSB115	Management, People and Organisations
ITB363	Project Management Practice
ITB364	Information Systems Development
	Block B Unit

Year 2, Semester 1

ITB365	Business Analysis
ITB366	Information Systems Operations
MGB223	Entrepreneurship and Innovation
	Block B Unit

Year 2, Semester 2

BSB126	Marketing
ITB823	Web Sites For Electronic Commerce
	Block B Unit
	Block B Unit

Year 3, Semester 1

ITB233	Enterprise Systems Applications
ITB264	Information Systems Consulting
	Block B Unit
	Block B Unit

Year 3, Semester 2

ITB298	Business Process Modelling
ITB370	Project
	Block B Unit
	Block B Unit

Block B: Complementary Studies

Students select a 4, 6 or 8 unit set/s from within the Faculty of IT or from those offered by other Faculties at QUT. Alternatively, students may undertake eight elective units with the approval of the Course Coordinator.

Students who choose to complete the Cooperative Education Program replace a Block B unit with ITS010

Banking and Finance (Faculty of Business)

BSB113	Economics
BSB122	Quantitative Analysis and Finance
EFB101	Data Analysis for Business
EFB102	Economics 2
EFB201	Financial Markets

EFB210	Finance 1
EFB307	Finance 2
EFB312	International Finance

Business Needs Analysis (Faculty of IT

ITB002	IT Professional Studies
ITB322	Information Resources
ITB361	Socio-technical Systems
ITB365	Business Analysis
	For additional units see below
ITB264	Information Systems Consulting
ITB298	Business Process Modelling
ITB363	Project Management Practice

Business Systems Engineering (Faculty of IT)

ITB003	Object Oriented Programming
ITB004	Database Systems
ITB008	Modelling Analysis and Design
ITB228	Enterprise Systems

Creative Industries Management (Creative Industries Faculty)

KTB207	Staging Australia
KTB061	Creative Industries Management
KTB062	Creative Industries Events and Festivals
KTB104	Performance Innovation

Construction Management - Administration (Faculty of Built Environment and Engineering)

UDB101	Stewardship of Land
UDB104	Urban Development Economics
UDB110	Residential Construction and Engineering
UDB111	Engineering Construction Materials

Databases

ITB003	Object Oriented Programming
ITB004	Database Systems
ITB008	Modelling Analysis and Design
ITB229	Database Design
ITB239	Enterprise Data Mining

Electronic Business (Faculty of IT/Faculty of Business)

ITB004	Database Systems
ITB233	Enterprise Systems Applications
ITB239	Enterprise Data Mining
ITB823	Web Sites For Electronic Commerce
BSB212	Electronic Business Applications
BSB314	E-Business Intelligence
BSB213	Governance Issues in E-Business

Entrepreneurship (Faculty of Business)

MGB223	Entrepreneurship and Innovation
MGB218	Managing Business Growth
AMB240	Marketing Planning and Management
AMB251	Innovation and Market Development

Games Development (Faculty of IT)

ITB002	IT Professional Studies
ITB016	Fundamentals of Games Design
ITB750	Computer Game Studies
ITB751	Games Production
	For additional units see below
ITB001	Problem Solving and Programming
ITB017	Advanced Games Design

Games Technology (Faculty of IT)

ITB001	Problem Solving and Programming
ITB003	Object Oriented Programming
ITB008	Modelling Analysis and Design
ITB702	Algorithms and Data Structures
ITB712	Software Engineering Studies
ITB746	Modelling and Animation Techniques
ITB749	Scientific Programming
MAB281	Mathematics for Computer Graphics

Human Resource Management (Faculty of Business)

MGB207	Human Resource Issues and Strategy
MGB211	Organisational Behaviour
MGB314	Organisational Consulting and Change
MGB331	Learning and Development in Organisations

Information Systems (Faculty of IT)

ITB002	IT Professional Studies
ITB004	Database Systems
ITB228	Enterprise Systems
ITB229	Database Design
	For additional units see below
ITB233	Enterprise Systems Applications
ITB264	Information Systems Consulting
ITB322	Information Resources

Information Technology Management (Faculty of IT)

ITB002	IT Professional Studies
ITB264	Information Systems Consulting
ITB361	Socio-technical Systems
ITB363	Project Management Practice
ITB364	Information Systems Development
ITB366	Information Systems Operations

International Studies (QUT Carseldine)

HHB110	Introduction To International And Global Studies

HHB111	Issues In International And Global Studies
HHB107	World Regions
HHB223	Islam and Islamic Societies
HHB263	Politics Of Globalisation

Information Technology Project Management (Faculty of IT)

ITB002	IT Professional Studies
ITB009	Core Project Management
ITB264	Information Systems Consulting
ITB363	Project Management Practice
	For additional units see below
ITB010	Core Project Implementation
ITB230	Project
ITB370	Project

Law (Faculty of Law)

LWB141	Legal Institutions and Method
LWB142	Law, Society and Justice
LWB144	Laws and Global Perspectives
LWB136	Contracts A
LWB137	Contracts B
LWB482	Internet Law
LWB484	Electronic Commerce and Technology Contracts

Management (Faculty of Business)

MGB210	Managing Operations
MGB211	Organisational Behaviour
MGB220	Management Research Methods
MGB222	Managing Organisations
MGB309	Strategic Management
MGB334	Managing in a Changing Environment

Marketing (Fculty of Business)

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
AMB240	Marketing Planning and Management
AMB241	E-Marketing Strategies
AMB341	Strategic Marketing

Public Health (Faculty of Health)

PUB251	Contemporary Public Health
PUB326	Epidemiology
PUB329	Foundations of Health Studies and Health Behaviour
PUB406	Health Promotion Strategies

Justice Studies (Faculty of Law)

JSB272	Theories of Crime
JSB273	Crime Research Methods
JSB372	Youth Justice
JSB373	Crime and Punishment
JSB378	Drugs and Crime

Bachelor of Corporate Systems Management Part Time 2011

Part-time Course Structure 2011

Year 1, Semester 1

INB120	Corporate Systems
INB122	Organisational Databases

Year 1, Semester 2

INB103	Industry Insights
INB101	Impact of IT

Year 2, Semester 1

BSB115	Management
	Block B Unit

Year 2, Semester 2

INB123	Project Management Practice
INB124	Information Systems Development

Year 3, Semester 1

INB220	Business Analysis
INB221	Technology Management

Year 3, Semester 2

MGB223	Entrepreneurship and Innovation
	Block B Unit

Year 4, Semester 1

BSB126	Marketing
	Block B Unit

Year 4, Semester 2

INB313	Electronic Commerce Site Development
	Block B Unit

Year 5, Semester 1

INB312	Enterprise Systems Applications
INB322	Information Systems Consulting

Year 5, Semester 2

	Block B Unit
	Block B Unit

Year 6, Semester 1

INB325	Corporate Systems Management Project
	Block B Unit

Year 6, Semester 2

INB320   Business Process Modelling

Block B Unit

Block B: Complementary Studies

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

Banking and Finance

BSB113   Economics

BSB123   Data Analysis

EFB201   Financial Markets

EFB210   Finance 1

EFB222   Quantitative Methods For Economics and Finance

EFB223   Economics 2

EFB307   Finance 2

EFB312   International Finance

Creative Industries Management

KTB104   Performance Innovation

KTB207   Staging Australia

KTB210   Creative Industries Management

KTB211   Creative Industries Events and Festivals

Construction Management - Administration

UDB101   Stewardship of Land

UDB104   Urban Development Economics

UDB110   Residential Construction and Engineering

UDB111   Engineering Construction Materials

Human Resource Management

MGB200   Leading Organisations

MGB201   Contemporary Employment Relations

MGB207   Human Resource Issues and Strategy

MGB314   Organisational Consulting and Change

MGB320   Recruitment and Selection

MGB331   Learning and Development in Organisations

MGB339   Performance and Reward

MGB370   Personal and Professional Development

Law

LWB136   Contracts A

LWB137   Contracts B

LWB145   Legal Foundations A

LWB146   Legal Foundations B

LWB238   Fundamentals of Criminal Law

LWB241   Trusts

LWB242   Constitutional Law

LWB334   Corporate Law

Management

BSB111   Business Law and Ethics

BSB113   Economics

BSB119   Global Business

BSB124   Working in Business

MGB200   Leading Organisations

MGB210   Managing Operations

MGB309   Strategic Management

MGB324   Managing Business Growth

Marketing

AMB200   Consumer Behaviour

AMB201   Marketing and Audience Research

AMB240   Marketing Planning and Management

AMB335   E-marketing Strategies

AMB359   Strategic Marketing

Organisational Psychology

PYB007   Interpersonal Processes and Skills

PYB012   Psychology

PYB202   Social and Organisational Psychology

PYB302   Industrial and Organisational Psychology

Public Health

PUB251   Contemporary Public Health

PUB326   Epidemiology

PUB332   Sustainable Environments For Health

PUB406   Health Promotion Practice

Justice (Criminology)

JSB170   Introduction to Criminology and Policing

JSB171   Justice and Society

JSB272   Theories of Crime

JSB273   Crime Research Methods

JSB372   Youth Justice

JSB373   Punishment and Penal Policy

JSB374   Crime Prevention

LWB145   Legal Foundations A

Specialisation - IT (Digital Environments)

INB104   Building IT Systems

INB210   Databases

INB270   Programming

INB335   Information Resources

INB340   Database Design

INB345   Mobile Devices

INB346   Enterprise 2.0

INB347   Web 2.0 Applications

Intermediate Level Electives

INB120	Corporate Systems
INB220	Business Analysis
INB255	Security
INB272	Interaction Design
	Or, an INB300 level unit as approved by the course coordinator

Bachelor of Corporate Systems Management Part Time

Part-time Course Structure 2010

Year 1, Semester 1

INB120	Corporate Systems
INB122	Organisational Databases

Year 1, Semester 2

INB103	Industry Insights
INB101	Impact of IT

Year 2, Semester 1

BSB115	Management
	Block B Unit

Year 2, Semester 2

INB123	Project Management Practice
INB124	Information Systems Development

Year 3, Semester 1

INB220	Business Analysis
INB221	Technology Management

Year 3, Semester 2

MGB223	Entrepreneurship and Innovation
	Block B Unit

Year 4, Semester 1

BSB126	Marketing
	Block B Unit

Year 4, Semester 2

INB313	Electronic Commerce Site Development
	Block B Unit

Year 5, Semester 1

INB312	Enterprise Systems Applications
INB322	Information Systems Consulting

Year 5, Semester 2

	Block B Unit
	Block B Unit

Year 6, Semester 1

INB325	Corporate Systems Management Project
	Block B Unit

Year 6, Semester 2

INB320	Business Process Modelling
	Block B Unit

Block B: Complementary Studies

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

Information Management/Information Technology Management

INB312	Enterprise Systems Applications
INB335	Information Resources

Adult and Community Leaning

SPB100	Introduction to Adult Learning and Development
SPB102	Professional Communication in Adult Learning Contexts

Banking and Finance

BSB113	Economics
BSB122	Quantitative Analysis and Finance
EFB101	Data Analysis for Business
EFB102	Economics 2
EFB201	Financial Markets
EFB210	Finance 1
EFB307	Finance 2
EFB312	International Finance

Business Systems Engineering

INB210	Databases
INB270	Programming
INB311	Enterprise Systems
	Intermediate Level IT Elective

Creative Industries Management

KTB061	Creative Industries Management
KTB062	Creative Industries Events and Festivals
KTB104	Performance Innovation
KTB207	Staging Australia

Construction Management - Administration

UDB101	Stewardship of Land
UDB104	Urban Development Economics
UDB110	Residential Construction and Engineering
UDB111	Engineering Construction Materials

Databases

INB210	Databases
INB270	Programming
INB340	Database Design

INB342	Enterprise Data Mining and Data Analysis
	Intermediate Level IT Elective

Electronic Business

BSB212	Electronic Business Applications
BSB213	Governance Issues in E-Business
BSB314	E-Business Intelligence
INB210	Databases
INB271	The Web
INB311	Enterprise Systems
INB342	Enterprise Data Mining and Data Analysis

Entrepreneurship

AMB240	Marketing Planning and Management
AMB251	Innovation and Brand Management

Human Resource Management

MGB207	Human Resource Issues and Strategy
MGB211	Organisational Behaviour
MGB314	Organisational Consulting and Change

International Studies

HHB107	World Regions
HHB223	Islam and Islamic Societies
HHB263	Politics Of Globalisation

Law

LWB136	Contracts A
LWB137	Contracts B
LWB141	Legal Institutions and Method
LWB142	Law, Society and Justice
LWB144	Laws and Global Perspectives
LWB482	Internet Law
LWB484	Electronic Commerce and Technology Contracts

Management

MGB210	Managing Operations
MGB211	Organisational Behaviour
MGB220	Business Research Methods
MGB222	Managing Organisations
MGB309	Strategic Management
MGB334	Managing in a Changing Environment

Marketing

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
AMB240	Marketing Planning and Management
AMB241	E-Marketing Strategies
AMB341	Strategic Marketing

Organisational Psychology

PYB007	Interpersonal Processes and Skills
PYB012	Psychology
PYB205	Social Psychology
PYB302	Industrial and Organisational Psychology

Public Health

PUB251	Contemporary Public Health
PUB326	Epidemiology
PUB329	Foundations of Health Studies and Health Behaviour
PUB406	Health Promotion Practice

Intermediate Level Electives

INB120	Corporate Systems
INB220	Business Analysis
INB255	Security
INB272	Interaction Design
	Or, an INB300 level unit as approved by the course coordinator

IT Elective List

IT Elective Units

INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB313	Electronic Commerce Site Development
INB374	Enterprise Software Architecture
INB386	Advanced Multimedia Systems
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB323	Smart Services
INB330	Information Management
INB331	Management Issues for Information Professionals
INB334	Information Issues and Values
INB335	Information Resources
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks
INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development
INB374	Enterprise Software Architecture
INB204	Special Topic 1

INB205	Special Topic 2
INB300	Professional Practice in IT
INB305	Special Topic 4
INB304	Special Topic 3
INS350	CCNA 1&2 Network Fundamentals and Routing
INS352	CCNP1: Building Scalable Internetworks
INS351	CCNA 3&4 Lan Switching
INS353	CCNP 2: Building Multi Layered Switched Networks
INS354	CCNP3: Building Multi Layered Switched Networks
INS355	CCNP 4: Optimising Converged Networks
INB306	Project 1
INB307	Project 2
INB308	Project 3
INB365	Systems Programming
INB355	Cryptology and Protocols
INB860	Computational Intelligence for Control and Embedded Systems
INB346	Enterprise 2.0
INB345	Mobile Devices
INB347	Web 2.0 Applications
INB334	Information Issues and Values

Potential Careers:

Business Analyst, Database Manager, Electronic Commerce Developer, Information Officer, Internet Professional, Manager, Programmer, Project Developer, Project Manager, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer, Systems Trainer, Technical Officer, Technology Transfer Officer.

Bachelor of Corporate Systems Management - Dean's Scholars Program (IT06)

Year offered: 2011
Admissions: Yes
CRICOS code: 059712C
Course duration (full-time): 3 years
Domestic fees (indicative): 2011: CSP $3,961 (indicative) per semester
International Fees (indicative): 2011: $11,250 (indicative) per semester
Domestic Entry: February: Fixed closing date - 26th November, 2010
International Entry: February: Fixed closing date - 26th Novemeber, 2010. This course is only available to international students completing Year 12 in Australia
QTAC code: 418002
Past rank cut-off: 97 plus successful questionnaire and interview. Please refer to Additional Entry Requirements.
Past OP cut-off: 2 plus successful questionnaire. Please refer to Additional Entry Requirements.
Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Course coordinator: Dr Taizan Chan
Campus: Gardens Point

Overview

Are you a creative thinker? Are you intrigued by new and evolving applications of information technology (such as cloud computing, 4G smart phones and Google Buzz)? Are you someone who is interested in the growing importance and impact of these applications on individuals, organisations and society, and who seeks to effectively apply them in the business world? If your answer is 'yes', then this is the degree for you.

This is an IT degree for business thinkers. It will give you the edge in understanding the relationships between information, technology, business and people. Today, business success depends on the identification and application of the right information technology solutions at the right cost within the right timeframe. This degree will introduce you to up-to-the-minute business and IT knowledge and enable you to harness your creativity and apply your knowledge in the real world. You will learn to analyse business needs and devise IT-enabled business systems and tools that deliver information solutions to the key people via the most appropriate technologies.

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.

Your Course
Year 1
In your first semester, you will complete the first four core

units:
• Impact of IT
• Industry Insights
• Corporate Systems
• Organisational Databases.

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

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

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

You will also complete your second specialisation unit or electives.

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

You will also complete two more specialisation units or electives.

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

You will also complete two more specialisation units or electives.

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

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

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

Who should apply?
The program is open to applicants currently undertaking Year 12 studies at a secondary school, and who achieve an OP 1 or 2 (or interstate equivalent). Applicants must be outstanding current, or returning from a gap year, Year 12 students who completed their Year 12 education in Australia.

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

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

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

OP Guarantee
The OP Guarantee does not apply to this program.

Deferment
QUT's deferment policy does not apply to this course.

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 Edcation 1, after completion of 168 credit points in the Bachelor of Games and Interactive Entertainment, subject to meeting eligibility criteria. Further information about this option is available from Student Services, Level 3, O Block Podium, Gardens Point Campus.

Find out more about the Cooperative Education Program.

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

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

• INB220Business Analysis
• INB255 Security
• INB272 Interaction Design
Or, an INB300 level unit as approved by the course coordinator

Fixed Closing Date

Applications for this program will close on 30 November.

Further Information

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

Taizan Chan
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Additional Entry Requirements

Applicants are required to complete a questionnaire.

Bachelor of Corporate Systems Management

Year 1, Semester 1

INB103	Industry Insights
INB120	Corporate Systems
INB101	Impact of IT
INB122	Organisational Databases

Year 1, Semester 2

BSB115	Management
INB123	Project Management Practice
INB124	Information Systems Development
	Block B Unit
	Block B Unit

Year 2, Semester 1

INB220	Business Analysis
INB221	Technology Management
MGB223	Entrepreneurship and Innovation
	Block B Unit
	Block B Unit

Year 2, Semester 2

INB313	Electronic Commerce Site Development
BSB126	Marketing
INB320	Business Process Modelling
	Block B Unit

Year 2, Summer

| INB325 | Corporate Systems Management Project |

Year 3, Semester 1

| INB312 | Enterprise Systems Applications |
| INB322 | Information Systems Consulting |

	Block B Unit
	Block B Unit
	Postgraduate IT Elective

Year 3, Semester 2

INN401	Honours Dissertation 1
INN700	Introduction To Research
INN701	Advanced Research Topics
	Postgraduate IT Elective

Year 3, Summer

INN402	Honours Dissertation 2
INN403	Honours Dissertation 3
INN404	Honours Dissertation 4

Block B: Complimentary Studies

Students select 84cp comprising of IT unit set(s) or from those offered by other Faculties at QUT. Alternatively, students may undertake eight elective units with the approval of the Course Coordinator.

Banking and Finance

BSB113	Economics
BSB123	Data Analysis
EFB201	Financial Markets
EFB210	Finance 1
EFB222	Quantitative Methods For Economics and Finance
EFB223	Economics 2
EFB307	Finance 2
EFB312	International Finance

Creative Industries Management

KTB210	Creative Industries Management
KTB211	Creative Industries Events and Festivals
KTB104	Performance Innovation
KTB207	Staging Australia

Construction Management - Administration

UDB101	Stewardship of Land
UDB104	Urban Development Economics
UDB110	Residential Construction and Engineering
UDB111	Engineering Construction Materials

Human Resource Management

MGB207	Human Resource Issues and Strategy
MGB200	Leading Organisations
MGB314	Organisational Consulting and Change
MGB201	Contemporary Employment Relations
MGB320	Recruitment and Selection
MGB331	Learning and Development in Organisations
MGB339	Performance and Reward

MGB370   Personal and Professional Development

Law

LWB136	Contracts A
LWB137	Contracts B
LWB145	Legal Foundations A
LWB146	Legal Foundations B
LWB238	Fundamentals of Criminal Law
LWB241	Trusts
LWB242	Constitutional Law
LWB334	Corporate Law

Management

BSB111	Business Law and Ethics
BSB113	Economics
BSB119	Global Business
BSB124	Working in Business
MGB200	Leading Organisations
MGB210	Managing Operations
MGB309	Strategic Management
MGB324	Managing Business Growth

Marketing

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
AMB240	Marketing Planning and Management
AMB335	E-marketing Strategies
AMB359	Strategic Marketing

Organisational Psychology

PYB007	Interpersonal Processes and Skills
PYB100	Foundation Psychology
PYB202	Social and Organisational Psychology
PYB302	Industrial and Organisational Psychology

Public Health

PUB251	Contemporary Public Health
PUB326	Epidemiology
PUB332	Sustainable Environments For Health
PUB406	Health Promotion Practice

Justice (Criminology)

JSB170	Introduction to Criminology and Policing
JSB171	Justice and Society
JSB272	Theories of Crime
JSB273	Crime Research Methods
JSB373	Punishment and Penal Policy
JSB372	Youth Justice
JSB374	Crime Prevention
LWB145	Legal Foundations A

Specialisation - IT (Digital Environments)

INB104	Building IT Systems
INB210	Databases
INB270	Programming
INB340	Database Design
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB335	Information Resources

Intermediate Level Electives

INB120	Corporate Systems
INB220	Business Analysis
INB255	Security
INB272	Interaction Design
	Or, an INB300 level unit as approved by the course coordinator

Postgraduate IT Units

Unit List:

INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN281	Advanced Game Design
INN282	Games Level Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN323	Smart Services
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN334	Information Issues and Values
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle

INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN383	AI for Games
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN546	Major Issues in Health Technology
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology

Students must first seek permission from the Course Coordinator to enrol in the following:

INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3

INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

Potential Careers:

Business Analyst, Computer Systems Engineer, Database Manager, Information Officer, Internet Professional, Manager, Network Administrator, Network Manager, Project Manager, Systems Analyst, Systems Manager, Systems Programmer, Systems Trainer, Web Designer.

Bachelor of Corporate Systems Management/Bachelor of Information Technology (IT07)

Year offered: 2011
Admissions: Yes
CRICOS code: 063028M
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,978 (indicative) per semester
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 418932
Past rank cut-off: 74
Past OP cut-off: 13
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths A, B or C (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Mike Roggenkamp (Information Technology Major), Dr Taizan Chan (Corporate Systems Management Major)
Campus: Gardens Point

Course Overview

This double degree allows you to combine the strong theoretical and practical grounding of the information technology degree with the skills to integrate this knowledge in the business world through the corporate systems management degree. You will learn about, and come to understand, the interrelationships of information, technology, business and client relations. This course is designed to ensure you are industry ready and future proof as a graduate.

Career Outcomes

The professional skills gained from this double degree are applicable across all business domains. As a graduate, you can expect to work in roles such as a business analyst or consultant, information and communication technologies project manager or information technology infrastructure manager, information analyst, business process manager, information manager, database manager, data communications specialist, systems analyst or programmer.

Professional Recognition

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

Study Areas

IT07 will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate's parchment. Instead, IT07 will have specialisations. The specialisation areas that will be available for students will include:
• Business Process Management
• Data Warehousing
• Digital Societies
• Enterprise Systems
• Information Management
• Network Systems
• Software Engineering
• Web Technologies

Pathways to Futher Studies

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

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

Cooperative Education

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

Find out more about the Cooperative Education Program.

Further Information

For further information about this course, please contact:

Course Coordinator

Dr Taizan Chan or Mr Richard Thomas
Phone:(07)3138 2782
Email: enquiry.scitech@qut.edu.au

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 on deferment.

**IT07- Bachelor of Corporate Systems Management/
Bachelor of Information Technology - 2011**

IT07 Course Outline 2010

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 Development
MGB223	Entrepreneurship and Innovation
	IT Breadth Option
	IT Breadth Option

Year 3, Semester 1

INB322	Information Systems Consulting
INB221	Technology Management
INB201	Scalable Systems Development
	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

INB312	Enterprise Systems Applications
INB325	Corporate Systems Management Project
INB301	The Business of IT
	IT Specialisation Option

Year 4, Semester 2

INB320	Business Process Modelling
INB302	IT Capstone Project

	IT Specialisation Option
	IT Specialisation Option

IT07 - Course Structure for students who commenced in 2010

IT07 Course Outline 2010

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 Development
MGB223	Entrepreneurship and Innovation
	IT Breadth Option
	IT Breadth Option

Year 3, Semester 1

INB322	Information Systems Consulting
INB221	Technology Management
INB201	Scalable Systems Development
	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

INB312	Enterprise Systems Applications
INB325	Corporate Systems Management Project
INB301	The Business of IT
	IT Specialisation Option

Year 4, Semester 2

INB320	Business Process Modelling

INB302   Capstone Project

     IT Specialisation Option

     IT Specialisation Option

IT Specialisation Option Unit List

IT Specialist Option Units

You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.

1.   BUSINESS PROCESS MANAGEMENT:

INB320   Business Process Modelling

INB321   Business Process Management

INB322   Information Systems Consulting

INB123   Project Management Practice

2.   DATA WAREHOUSING:

INB340   Database Design

INB341   Software Development With Oracle

INB342   Enterprise Data Mining and Data Analysis

INB343   Advanced Data Mining and Data Warehousing

INB344   Search Engine Technology

3.   DIGITAL ENVIRONMENTS:

INB345   Mobile Devices

INB346   Enterprise 2.0

INB347   Web 2.0 Applications

INB335   Information Resources

4.   ENTERPRISE SYSTEMS:

INB123   Project Management Practice

INB221   Technology Management

INB311   Enterprise Systems

INB312   Enterprise Systems Applications

5.   NETWORK SYSTEMS:

INB350   Internet Protocols and Services

INB351   Unix Network Administration

INB352   Network Planning

INB353   Wireless and Mobile Networks

6.   SOFTWARE ENGINEERING:

INB370   Software Development

INB371   Data Structures and Algorithms

INB372   Agile Software Development

INB374   Enterprise Software Architecture

7.   WEB TECHNOLOGIES:

INB313   Electronic Commerce Site Development

INB373   Web Application Development

INB374   Enterprise Software Architecture

INB385   Multimedia Systems

INB386   Advanced Multimedia Systems

8.   UNGROUPED:

INB204   Special Topic 1

INB205   Special Topic 2

INB304   Special Topic 3

INB305   Special Topic 4

INB306   Project 1

INB307   Project 2

INB308   Project 3

INB355   Cryptology and Protocols

INB365   Systems Programming

INB381   Modelling and Animation Techniques

INB382   Real Time Rendering Techniques

INB860   Computational Intelligence for Control and Embedded Systems

IT Breadth Option Unit List

IT Breadth Option Units

You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.

INB120   Corporate Systems

INB210   Databases

INB220   Business Analysis

INB250   Foundations of Computer Science

INB251   Networks

INB255   Security

INB270   Programming

INB271   The Web

INB272   Interaction Design

Bachelor of Corporate Systems Management/Bachelor of Information Technology (IT08)

Year offered: 2011
Admissions: No
CRICOS code: 063028M
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,878 per semester (indicative)
International Fees (indicative): 2011: $11,000 (indicative) per semester
International Entry: February
QTAC code: 416932
Past rank cut-off: 74
Past OP cut-off: 13
Course coordinator: Richard Thomas (Information Systems Major), Dr Taizan Chan (Corporate Systems Management Major)
Campus: Gardens Point

Bachelor of Corporate Systems Management/ Bachelor of Information Technology

Course Structure 2009 (Continuing Students Only)

This course is discontinued as of 2009 and is only available to continuing students.

Year 1, Semester 1

INB120	Corporate Systems
INB122	Organisational Databases
INB103	Industry Insights
INB250	Systems Architecture

Year 1, Semester 2

INB123	Project Management Practice
BSB115	Management
INB210	Databases
INB104	Building IT Systems

Year 2, Semester 1

INB101	Impact of IT
BSB126	Marketing
INB270	Programming
	Intermediate Level IT Elective

Year 2, Semester 2

INB124	Information Systems Development
MGB223	Entrepreneurship and Innovation
INB251	Networks
INB271	The Web

Year 3, Semester 1

INB312	Enterprise Systems Applications
INB220	Business Analysis
INB221	Technology Management
	IT Elective Unit

Year 3, Semester 2

INB320	Business Process Modelling
	General Elective
	IT Elective Unit
	IT Elective Unit

Year 4, Semester 1

INB322	Information Systems Consulting
INB335	Information Resources
INB301	The Business of IT
	IT Elective Unit

Year 4, Semester 4

EITHER

INB302	Capstone Project
OR	
INB325	Corporate Systems Management Project
AND	The following three units:
	General Elective
	IT Elective Unit
	IT Elective Unit

IT Elective List

IT Elective Units

INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB313	Electronic Commerce Site Development
INB374	Enterprise Software Architecture
INB386	Advanced Multimedia Systems
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB323	Smart Services
INB330	Information Management
INB331	Management Issues for Information Professionals
INB334	Information Issues and Values
INB335	Information Resources
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks
INB370	Software Development

INB371	Data Structures and Algorithms
INB372	Agile Software Development
INB374	Enterprise Software Architecture
INB204	Special Topic 1
INB205	Special Topic 2
INB300	Professional Practice in IT
INB305	Special Topic 4
INB304	Special Topic 3
INS350	CCNA 1&2 Network Fundamentals and Routing
INS352	CCNP1: Building Scalable Internetworks
INS351	CCNA 3&4 Lan Switching
INS353	CCNP 2: Building Multi Layered Switched Networks
INS354	CCNP3: Building Multi Layered Switched Networks
INS355	CCNP 4: Optimising Converged Networks
INB306	Project 1
INB307	Project 2
INB308	Project 3
INB365	Systems Programming
INB355	Cryptology and Protocols
INB860	Computational Intelligence for Control and Embedded Systems
INB346	Enterprise 2.0
INB345	Mobile Devices
INB347	Web 2.0 Applications
INB334	Information Issues and Values

Bachelor of Corporate Systems Management/Bachelor of Games and Interactive Entertainment (IT09)

Year offered: 2011
Admissions: Yes
CRICOS code: 063029K
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,9787 (indicative) per semester
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 418912
Past rank cut-off: 74
Past OP cut-off: 13
OP Guarantee: Yes
Assumed knowledge: English (4, SA), Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Course coordinator: Michael Docherty (Games), Dr Taizan Chan (Corp. Systems)
Discipline coordinator: Dr Taizan Chan (BCSM); Ruth Christie (BGIE)
Campus: Gardens Point and Kelvin Grove

Course overview

This double degree gives you expertise in the development of computer games and other forms of interactive media along with the knowledge of how to manage the broader business and information environment of a games organisation. You will develop the skills to understand the business needs of the games and entertainment industries and combine these with your technical knowledge and skills to be able to play a role in the management of these organisations.

You will gain an understanding of issues related to people and process management in games development and demonstrate the ability to be an effective leader and innovator. You will learn lifelong skills to enable you to continuously improve games and interactive entertainment. This degree will give you the skills to engage in the cultural dialogue of games design and communicate professionally. You will also develop the creative skills to enable you to participate in the development process related to games and interactive media. 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.

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.

Futher Information

For further information about this course, please contact:

Course Coordinator
Dr Taizan Chan
Phone:(07)3138 2533
Email: enquiry.scitech@qut.edu.au
or
Michael Docherty
Phone: (07) 3138 2868
Email: enquiry.scitech@qut.edu.au

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 on deferment.

IT09 Course Structure 2011

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

INB220	Business Analysis
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

INB379	Game Project Design
INB322	Information Systems Consulting
INB312	Enterprise Systems Applications
INB325	Corporate Systems Management Project

Year 4, Semester 2

INB380	Games Project
INB320	Business Process Modelling
	Games & Interactive Entertain Major Unit
INB313	Electronic Commerce Site Development

Bachelor of Games & Interactive Entertainment Majors Course structure (Block B)

Animation

	Select 8 units from:
KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KVB105	Drawing for Design
KVB106	Drawing for Animation
KIB220	Animation Production
KIB203	Introduction to 3D Computer Graphics
KIB221	Animation: CG Toolkit
KIB225	Character Development, Conceptual Design and Animation Layout
KIB316	Virtual Environments
KIB325	Real-Time 3D Computer Graphics

Digital Media

KIB101	Visual Communication
KIB102	Visual Interactions
INB345	Mobile Devices
INB386	Advanced Multimedia Systems

KIB309	Embodied Interactions
KIB230	Interface and Information Design
INB385	Multimedia Systems
KIB314	Tangible Media

Game Design

INB280	Fundamentals of Game Design
INB272	Interaction Design
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB282	Games Level Design
DEB103	Visualisation 1
INB281	Advanced Game Design
KIB214	Design for Interactive Media

Software Technologies*

	* Requirements for this Major is a SA or better in Queensland Maths B (or equivalent)
INB270	Programming
MAB281	Mathematics for Computer Graphics
INB210	Databases
INB250	Computer Architectures and Systems
INB370	Software Development
INB371	Data Structures and Algorithms
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
OR	
INB383	AI for Games

IT09 Course Structure 2010

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

INB220	Business Analysis
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

INB379	Game Project Design
INB322	Information Systems Consulting
INB312	Enterprise Systems Applications
INB325	Corporate Systems Management Project
	Or
	IT Elective Unit

Year 4, Semester 2

INB380	Games Project
INB320	Business Process Modelling
	Games & Interactive Entertain Major Unit
INB313	Electronic Commerce Site Development

INB124	Information Systems Development
INB313	Electronic Commerce Site Development
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 3, Semester 1

INB220	Business Analysis
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

INB379	Game Project Design
INB322	Information Systems Consulting
INB312	Enterprise Systems Applications
INB325	Corporate Systems Management Project
	Or
	IT Elective Unit

Year 4, Semester 2

INB380	Games Project
INB320	Business Process Modelling
	Games & Interactive Entertain Major Unit

IT09 Course Structure 2009

Year 1, Semester 1

INB120	Corporate Systems
INB103	Industry Insights
INB180	Computer Games Studies
INB204	Special Topic 1

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

University Diploma in Information Technology (IT10)

Year offered: 2011
Admissions: Yes
CRICOS code: 025283M
Course duration (full-time): 2 semesters
International Fees (indicative): 2011: $8,436 (indicative) per semester
International Entry: February, June and October
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Elizabeth McDade

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.

Academic Entry Requirements

To be accepted into the program you must have successfully completed senior high school with the required grades. You must also have relevant vocational experience. For more information on entry requirements visit Studyfinder .

This course is not available to Australian or New Zealand citizens or holders of an Australian permanent residency or permanent protection visa.

English Language Requirements

IELTS 5.5 (with sub-scores of at least 5.0); TOEFL 525 (paper-based test) or TOEFL 193 (computer-based test) or 70 (iBT) (with sub-scores of at least 18 in writing and reading and 17 or more in listening and speaking) or equivalent; or successful completion of the QUT English for Academic Purposes (AEP) program. Students should also check visa requirements.

University Diploma in Information Technology units:

- Building IT Systems
- Databases
- Emerging Technology
- Industry Insights
- Professional Communication 1
- Professional Communication 2
- Networks
- Programming

Abbreviation

UnivDipInfTech

Description

The University Diploma in Information Technology, which has intakes for international students in February, June and October, is equivalent to the first year of the Bachelor of Information Technology. In this program, students study six first year faculty core units as well as two units of Communication which have been designed to support their other core units. Students who successfully complete these units earn full academic credit for eight units towards their degree. Graduates articulate to the second year of the Bachelor of Technology. Small lectures and tutorials, additional workshops and the support of Language and Welfare Advisers provide an excellent learning environment.

Course Completion

Students must obtain at least a grade of 4 (Pass) in all units.

IT10 - University Diploma in InfoTech (Full-time course structure)

Semester One	
IND102	Emerging Technology
IND104	Building IT Systems
IND210	Databases
QCD120	Professional Communication 1
	NOTE: IND102 & IND210 are offered in ALTERNATE semesters

Semester Two	
IND103	Industry Insights
IND251	Networks
IND270	Programming
QCD220	Professional Communication 2
	NOTE: IND103 & IND251 are offered in ALTERNATE semesters

Potential Careers:

Academic, Computer Games Developer, Computer Salesperson/Marketer, Computer Systems Engineer, Data Communications Specialist, Database Manager, Digital Composer, Educator, Electronic Commerce Developer, Information Security Specialist, Internet Professional, Multimedia Designer, Network Administrator, Network Manager, Programmer, Public Servant, Secondary School Teacher, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer, Systems Trainer, TAFE Teacher, Teacher, Technical Officer, Trainer, Web

Designer.

Bachelor of Information Technology (IT21)

Year offered: 2011
Admissions: No
CRICOS code: 012656E
Course duration (full-time): 3 years (International students must study at Gardens Point)
Course duration (part-time): 6 years (not available at Carseldine)
Domestic fees (indicative): 2011: CSP rate available August 2010
International Entry: February, July and October (Conditions apply for October entry)
OP Guarantee: Yes
Assumed knowledge: English (4,SA) and Maths B (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 288
Course coordinator: Mr Richard Thomas
Campus: Gardens Point and Carseldine

Course Update

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

Course Design

The course structure is divided into three blocks:

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

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

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

Block 3: General Electives
Students choose the composition of the third block of the course, which extends over the later years of the course and is worth:
• 48 credit points for majors: DAT, SOF, ELC, and ISS; OR
• 24 credit points for majors: EMT, DCI and CDC
Students are encouraged to consider selecting units from outside the Faculty in order to broaden their range of skills.

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

Career Outcomes

IT is now an integral part of all commercial, industrial and government activities.
A graduate may find employment as a: Programmer, Software Engineer, Systems Programmer, Computer Scientist, Systems Analyst, Data Communications Specialist, Information Manager, Electronic Commerce Developer, Games Developer, Multimedia Specialist, Network Administrator, Database Manager, Web Developer.

For information on the above job descriptions, visit IT Skills Hub.

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.

Professional Recognition

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

Co-operative Education Program

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

Find out more about the Cooperative Education Program.

Unit Incompatibility/Translation Information

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

Course Outline

Block 1: Common First Year (8 Units)

Block 2: Major (12 Units)
Data Communications
Electronic Commerce
Information Systems

Software Engineering

Block 2: Major (14 Units)

Emerging Technologies

Data Communications and Information Systems

Data Communications and Software Engineering

Block 3: General Electives

4 Units for the following majors

Data Communications

Electronic Commerce

Information Systems

Software Engineering

2 Units for the following majors

Emerging Technologies

Data Communications and Information Systems

Data Communications and Software Engineering

IT21 - Common First Year

Common First Year	
INB104	Building IT Systems
INB103	Industry Insights
INB270	Programming
INB210	Databases
INB250	Foundations of Computer Science
INB251	Networks
	Choose one unit from: Intermediate Level Elective list. This choice will replace ITB008 from 2009 course summary.
	IT Elective Unit

IT21 - Data Communications Major

Data Communications Major	
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks
INB255	Security
	Five (5) Major Elective Units to be chosen from the IT Elective List

IT21 - Electronic Commerce Major

Electronic Commerce Major	
BSB213	Governance Issues in E-Business
INB271	The Web
INB311	Enterprise Systems
INB340	Database Design

INB313	Electronic Commerce Site Development
INB350	Internet Protocols and Services
INB255	Security
	Four (4) Major Elective Units to be chosen from the IT Elective List

IT21 - Emerging Technologies Major

Emerging Technologies Major	
INB372	Agile Software Development
INB301	The Business of IT
MGB218	Managing Business Growth
	OR
MGB223	Entrepreneurship and Innovation
	Ten (10) Major Elective Units to be chosen from the IT Elective List

IT21 - Information Systems Major

Information Systems Major	
INB271	The Web
INB301	The Business of IT
INB311	Enterprise Systems
INB340	Database Design
	Seven (7) Major Elective Units to be chosen from the IT Elective List

IT21 - Software Engineering Major

Software Engineering Major	
INB301	The Business of IT
INB372	Agile Software Development
INB350	Internet Protocols and Services
	Five (5) Major Elective Units to be chosen from the IT Elective List

IT21 - Data Communications & Information Systems Major

Data Communications & Information Systems Major	
INB271	The Web
INB311	Enterprise Systems
INB340	Database Design
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB353	Wireless and Mobile Networks
INB255	Security
	Five (5) Major Elective Units to be chosen from the IT Elective List

IT21 - Data Communications & Software Engineering Major

Data Communications & Software Engineering Major	
INB301	The Business of IT

INB372	Agile Software Development		INB365	Systems Programming
INB371	Data Structures and Algorithms		INB372	Agile Software Development
INB350	Internet Protocols and Services		INB370	Software Development
INB351	Unix Network Administration		INB373	Web Application Development
INB353	Wireless and Mobile Networks		INB374	Enterprise Software Architecture
INB370	Software Development		INB350	Internet Protocols and Services
INB255	Security		INB351	Unix Network Administration
	Four (4) Major Elective Units to be chosen from the IT Elective List		INB352	Network Planning
			INB255	Security
			INB353	Wireless and Mobile Networks

IT Elective Unit List

Information Technology Elective Unit List	
INB104	Building IT Systems
INB103	Industry Insights
INB270	Programming
INB210	Databases
INB250	Foundations of Computer Science
INB251	Networks
INB271	The Web
INB301	The Business of IT
INB302	IT Capstone Project
INS011	Co-operative Education 1
INS351	CCNA 3&4 Lan Switching
INB280	Fundamentals of Game Design
INB281	Advanced Game Design
INB341	Software Development With Oracle
INB311	Enterprise Systems
INB340	Database Design
INB306	Project 1
INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining and Data Analysis
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB330	Information Management
INB320	Business Process Modelling
INB335	Information Resources
INB120	Corporate Systems
INB122	Organisational Databases
INB123	Project Management Practice
INB124	Information Systems Development
INB220	Business Analysis
INB221	Technology Management
INB325	Corporate Systems Management Project
INB371	Data Structures and Algorithms
INB305	Special Topic 4
INB272	Interaction Design

INB355	Cryptology and Protocols
INB382	Real Time Rendering Techniques
INB381	Modelling and Animation Techniques
INB181	Introduction to Games Production
INB180	Computer Games Studies
INB204	Special Topic 1
INB205	Special Topic 2
INB304	Special Topic 3
INB860	Computational Intelligence for Control and Embedded Systems
MAB281	Mathematics for Computer Graphics

Potential Careers:

Computer Games Developer, Computer Salesperson/Marketer, Computer Systems Engineer, Data Communications Specialist, Database Manager, Electronic Commerce Developer, Internet Professional, Network Administrator, Network Manager, Programmer, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer, Technical Officer, Web Designer.

Bachelor of Information Technology (IT22)

Year offered: 2011
Admissions: No
CRICOS code: 012656E
Course duration (full-time): 3 years
Course duration (part-time): 6 years
Domestic fees (indicative): 2011: CSP $3,886 (indicative) per semester
International Fees (indicative): 2011: $11,375 (indicative) per semester
QTAC code: 416801
Past rank cut-off: 74
Past OP cut-off: 13
Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 288
Course coordinator: Mr Richard Thomas
Campus: Gardens Point

Course Information

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

Course Overview

A Bachelor of Information Technology will start you on a challenging and rewarding career path facing the changes brought about by evolving global innovations. You will have the flexibility in your course to complement your skills and knowledge with a cross-section of study areas from other disciplines and faculties.

This course offers you a wide range of options to build your information technology skill set and develop complementary skills from other professional disciplines. You will gain a strong theoretical and practical foundation to advance your career aspirations, choosing from compact and focused specialisations allowing you to hone your skills in an advanced area of information technology and other professions.

Course Requirements

Block A: IT Core Studies
All students undertake ten core units over the duration of their course.

Block B: IT Major
Students who started their IT22 degree in 2008 must choose an IT Major consisting of six designated units from one of the following 4 Majors:

• Information Systems (ISY)
• Network Systems (NET)
• Software Architecture (SOA)
• Generic – No Major (XYZ)

Students who started their IT22 degree before 2008 must choose an IT Major consisting of six designated units from one of the following 13 Majors:

• Business Systems Engineering (BSE)
• Databases (DTB)
• Electronic Business (EBI)
• Games Technology (GAM)
• Information and Knowledge Management (ITK)
• Information Systems (ISY)
• Information Technology Management (IMG) • Intelligent Systems (ITS)
• Interactive Media (IAM)
• Network Systems (NET)
• Security (SEC)
• Software Architecture (SOA)
• Web Services and Applications (WSA)

Block C: Complementary Studies
Students choose the composition of the third block of the course. The choice may include one from the following suggestions:

• A six unit set (which may be chosen from the IT Majors) and two electives, or
• An approved unit set (four units) available from the list of University Wide Unit Sets http://www.courses.qut.edu.au/cgi-bin/WebObjects/Courses.woa/wa/selectFacultyFromMain?faculty=IT and four electives, or
• Eight specified electives as approved by the Course Coordinator

Note: A maximum of 4 units of professional certification permissible towards complementary studies. This includes CISCO, Microsoft, etc.

Scholarships

If you wish to enrol in the Bachelor of Information Technology, you may like to consider our Dean's Scholars Program for OP1-2 students. If you are a female high school student, you may also apply for our 'go for IT gURL' merit scholarships.

Find out more about the range of scholarships available.

Cooperative Education Program

The Faculty's Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you're learning in your degree. 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.

Professional Recognition

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

Credit for Previous Study

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

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

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

Unit Incompatibility/Translation Information

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

Further Information

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

Course Co-Ordinator
Mr Richard Thomas
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Bachelor of Information Technology

Course Structure

From semester one, 2009 this course will not be available for commencing students. IT22 will only be available for continuing students. New students - please refer to IT23. Please contact enquiry.scitech@qut.edu.au for any enquiries.

The course structure consists of 10 IT Core Studies Units (Block A), 6 Major Units (Block B) if applicable, and 8 Complementary Studies Area Units (Block C). For those students who choose the Generic No Major option, students replace the major units with any 6 ITBxxx units provided they meet the prerequisites.

Eight (8) Block A units are completed in the first year, while the remaining two (2) Block A units are completed later in the course.

Block C Complementary Studies Area (8 units): Students choose the composition which may include: a second IT Major (6 units) or an approved minor (4 units) and 4 electives or 8 specified electives as approved by the Course Coordinator.

Recommended Core Unit Progression

Year 1, Semester 1

INB104	Building IT Systems
INB103	Industry Insights

INB210	Databases
INB250	Foundations of Computer Science

Year 1, Semester 2

INB270	Programming
INB251	Networks
INB271	The Web

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

Year 2, Semester 1

Block B or Block C Unit
Block B or Block C Unit
Block B or Block C Unit
Block B or Block C Unit

Year 2, Semester 2

INB301	The Business of IT

Block B or Block C Unit
Block B or Block C Unit
Block B or Block C Unit

Year 3, Semester 1

INB302	IT Capstone Project

Block B or Block C Unit
Block B or Block C Unit
Block B or Block C Unit

Year 3, Semester 2

Block B or Block C Unit
Block B or Block C Unit
Block B or Block C Unit
Block B or Block C Unit

No Major Options

Students can choose any 6 INB--- units (subject to prerequisite eligibility) from the Information Technology Undergraduate Elective/Options List as found at the below URL.

http://www.studentservices.qut.edu.au/pdfs/IT_elective_list.pdf

Information Systems Major

Compulsory Units

INB311	Enterprise Systems
INB340	Database Design
INB220	Business Analysis

IS Elective Units

INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining and Data Analysis

INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB124	Information Systems Development
INB221	Technology Management

Network Systems Major

Compulsory Units	
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB255	Security

Electives	
INB312	Enterprise Systems Applications
INB365	Systems Programming
INB353	Wireless and Mobile Networks
INB355	Cryptology and Protocols

Software Architecture Major

Compulsory Units	
INB340	Database Design
INB371	Data Structures and Algorithms
INB372	Agile Software Development

Electives	
	Choose 3 Electives
INB341	Software Development With Oracle
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB272	Interaction Design
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB365	Systems Programming
INB370	Software Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
MAB281	Mathematics for Computer Graphics
	MAB281 is only to be used as a prereq for INB381

Intermediate Level Electives

Intermediate Level Electives	
INB120	Corporate Systems
INB220	Business Analysis

INB255	Security
INB272	Interaction Design
	OR
	an INB300 level unit as approved by the course coordinator

IT Elective List

IT Elective Units	
INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB313	Electronic Commerce Site Development
INB374	Enterprise Software Architecture
INB386	Advanced Multimedia Systems
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB323	Smart Services
INB330	Information Management
INB331	Management Issues for Information Professionals
INB334	Information Issues and Values
INB335	Information Resources
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks
INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development
INB374	Enterprise Software Architecture
INB204	Special Topic 1
INB205	Special Topic 2
INB300	Professional Practice in IT
INB305	Special Topic 4
INB304	Special Topic 3
INS350	CCNA 1&2 Network Fundamentals and Routing
INS352	CCNP1: Building Scalable Internetworks
INS351	CCNA 3&4 Lan Switching
INS353	CCNP 2: Building Multi Layered Switched Networks
INS354	CCNP3: Building Multi Layered Switched Networks
INS355	CCNP 4: Optimising Converged Networks
INB306	Project 1

INB307	Project 2
INB308	Project 3
INB365	Systems Programming
INB355	Cryptology and Protocols
INB860	Computational Intelligence for Control and Embedded Systems
INB346	Enterprise 2.0
INB345	Mobile Devices
INB347	Web 2.0 Applications
INB334	Information Issues and Values

Business Systems Engineering Major (pre 2008)

Compulsory Units

INB220	Business Analysis
INB311	Enterprise Systems
INB320	Business Process Modelling
INB335	Information Resources

IS Elective Units

	Select two (2) units from the following list
INB123	Project Management Practice
INB306	Project 1
INB312	Enterprise Systems Applications
INB323	Smart Services
INB340	Database Design
INB341	Software Development With Oracle
INB321	Business Process Management
INB322	Information Systems Consulting

Databases Major (pre 2008)

Core units

INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining

Elective units

	Choose 3 Elective units from the following list:
INB306	Project 1
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB313	Electronic Commerce Site Development
INB320	Business Process Modelling
INB330	Information Management
INB335	Information Resources
INB343	Advanced Data Mining and Data Warehousing

Electronic Business Major (pre 2008)

Compulsory Units

INB312	Enterprise Systems Applications

INB313	Electronic Commerce Site Development
INB342	Enterprise Data Mining
BSB212	Electronic Business Applications
BSB213	Governance Issues in E-Business
BSB314	E-Business Intelligence

Games Technology Major (pre 2008)

Compulsory Units

INB370	Software Development
INB381	Modelling and Animation Techniques
INB371	Data Structures and Algorithms
INB382	Real Time Rendering Techniques
INB383	AI for Games
MAB281	Mathematics for Computer Graphics

Information Systems Major

Compulsory Units

INB311	Enterprise Systems
INB340	Database Design
INB220	Business Analysis

IS Elective Units

INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB124	Information Systems Development
INB221	Technology Management

Information Technology Management Major (pre 2008)

Compulsory Units

INB221	Technology Management
INB335	Information Resources
INB322	Information Systems Consulting

IS Elective Units

	Select three (3) units from the following list:
INB123	Project Management Practice
INB124	Information Systems Development
INB220	Business Analysis
INB341	Software Development With Oracle
INB306	Project 1
INB311	Enterprise Systems
INB340	Database Design

Intelligent Systems Major (pre 2008)

Compulsory Units

INB335	Information Resources
INB342	Enterprise Data Mining and Data Analysis
INB371	Data Structures and Algorithms
INB860	Computational Intelligence for Control and Embedded Systems
	IT Elective (INB383 and INB343 recommended)
	IT Elective
	6 Units required

Interactive Media Major (pre 2008)

Compulsory Units	
	6 Compulsory units required.
INB272	Interaction Design
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
KIB101	Visual Communication
KIB102	Visual Interactions

Elective Units	
	Select one (1) unit from the following list:
KIB103	Introduction to Web Design and Development
KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices

KIB units	
	Only students enrolled in the IAM major may enrol in KIB*** units without the approval of the Creative Industries Faculty. These units are held at Kelvin Grove campus - class code to be KG

Network Systems Major (pre 2008)

Compulsory Units	
	6 Compulsory units required.
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
INB353	Wireless and Mobile Networks
INB365	Systems Programming
	IT Elective

Security Major (pre 2008)

Compulsory Units	
	6 Compulsory units required.
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB355	Cryptology and Protocols
INB255	Security
	IT Elective

	IT Elective

Software Architecture Major

Compulsory Units	
INB340	Database Design
INB371	Data Structures and Algorithms
INB372	Agile Software Development

Electives	
	Choose 3 Electives
INB341	Software Development With Oracle
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB272	Interaction Design
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB365	Systems Programming
INB370	Software Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
MAB281	Mathematics for Computer Graphics
	MAB281 is only to be used as a prereq for INB381

Web Services and Applications Major (pre 2008)

Compulsory Units	
	4 Compulsory units required.
INB272	Interaction Design
INB313	Electronic Commerce Site Development
INB373	Web Application Development
INB374	Enterprise Software Architecture

Choose 1 of the following:	
INB255	Security
INB350	Internet Protocols and Services
INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development

Elective Units (1)	
	IT Elective

Complementary Studies (Block C) (pre 2008)

Students choose the composition of the third block of the course from the following:	
	A six unit set (which may be chosen from the

IT Majors) and two electives, or

An approved fours unit set and four electives, or

Eight specified Complementary Studies Electives

In selecting Block C Complementary Studies Electives, students may choose:

Units form other Bachelor of Information Technology majors; and/or

Units from any degree-level course offered at QUT; and/or

Industry Certification courses (eg. Cisco Certified Network Professional (CCNP), Microsoft Certified Solution Developer (MCSD) etc.) up to a limit of 48 credit points in Block C units as specified. Students wishing to pursue this option should discuss this with the Course Coordinator; and/or

With the approval of the Course Coordinator, units from any degree-level or equivalent tertiary-level course offered at other tertiary-level institutions.

Potential Careers:

Business Analyst, Computer Game Programmer, Computer Games Developer, Computer Systems Engineer, Data Communications Specialist, Database Manager, Electronic Commerce Developer, Information Security Specialist, Internet Professional, Multimedia Designer, Network Administrator, Network Manager, Programmer, Project Manager, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer, Web Designer.

Bachelor of Information Technology - Dean's Scholars Program (IT22)

Year offered: 2011
Admissions: No
CRICOS code: 012656E / 017323G
Course duration (full-time): 3 years
Domestic fees (indicative): 2011: CSP $3,886 (indicative) per semester
International Fees (indicative): 2011: $11,375 (indicative) per semester
QTAC code: 416002
Past rank cut-off: 96. Also see entry requirements
Past OP cut-off: 3. Also see entry requirements
Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Course coordinator: Mr Richard Thomas
Campus: Gardens Point

Financial Support

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

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

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

Cooperative Education Program

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

Find out more about the Cooperative Education Program.

Deferment

QUT's deferment policy does not apply to this course.

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.

New Unit Translations/Incompatability Table

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

International Student Entry

To be eligible to enrol in the Honours program, students must demonstrate appropriate levels of achievement in the Bachelor of Information Technology course.
Offers in the Honours program will be made conditionally on the student maintaining a GPA of 5.5 in the Bachelor of Information Technology component to be eligible to continue to the Bachelor of Information Technology (Honours). It is expected that many Dean¿s Scholars will proceed to PhD studies. However, students have the option of exiting after the Bachelor of Information Technology (2.5yrs).

Further Information

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

Richard Thomas
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Bachelor of Information Technology

Course Structure

Recommended Core Unit Progression

Year 1, Semester 2	
INB270	Programming
INB251	Networks
INB271	The Web
	Intermediate Level Elective

Year 2, Semester 1	
	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit

Year 2, Semester 2	
INB301	The Business of IT
	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit

Year 2, Summer	
INB302	IT Capstone Project
	Undertaken over four (4) weeks.

Year 3, Semester 1	
	Block B or Block C Unit
	Block B or Block C Unit

Block B or Block C Unit

Block B or Block C Unit

INN Unit

Year 3, Semester 2

INN700	Introduction To Research
	INN Elective
	INN Elective
INN401	Honours Dissertation 1

Year 3, Summer

INN402	Honours Dissertation 2
INN403	Honours Dissertation 3
INN404	Honours Dissertation 4

Software Architecture Major

Compulsory Units

INB340	Database Design
INB371	Data Structures and Algorithms
INB372	Agile Software Development

Electives

	Choose 3 Electives
INB341	Software Development With Oracle
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB272	Interaction Design
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB365	Systems Programming
INB370	Software Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
MAB281	Mathematics for Computer Graphics
	MAB281 is only to be used as a prereq for INB381

Information Systems Major

Compulsory Units

INB311	Enterprise Systems
INB340	Database Design
INB220	Business Analysis

IS Elective Units

| INB312 | Enterprise Systems Applications |
| INB342 | Enterprise Data Mining and Data Analysis |

INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB124	Information Systems Development
INB221	Technology Management

Network Systems Major

Compulsory Units

INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB255	Security

Electives

INB312	Enterprise Systems Applications
INB365	Systems Programming
INB353	Wireless and Mobile Networks
INB355	Cryptology and Protocols

Potential Careers:

Computer Game Programmer, Computer Games Developer, Computer Salesperson/Marketer, Computer Systems Engineer, Data Communications Specialist, Database Manager, Electrical and Computer Engineer, Information Officer, Information Security Specialist, Internet Professional, Manager, Multimedia Designer, Network Administrator, Network Manager, Programmer, Project Manager, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer, Systems Trainer, Web Designer.

Bachelor of Information Technology (IT23)

Year offered: 2011
Admissions: Yes
CRICOS code: 012656E
Course duration (full-time): 3 years
Course duration (part-time): 6 years
Domestic fees (indicative): 2011: CSP $3,886 (indicative) per semester
International Fees (indicative): 2011: $11,375 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
QTAC code: 418801
Past rank cut-off: 74
Past OP cut-off: 13
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths A, B or C (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 288
Course coordinator: Mr Mike Roggenkamp
Campus: Gardens Point

Overview

Information technology enables almost every aspect of modern society; from phones to MP3 players to dashboard navigation systems, from ATMs to robotic assembly lines to satellite communication, from online booking systems to banking to instant messaging. Information technology is everywhere you look.

The information technology landscape is ever changing, making a job in information technology an interesting and rewarding career path. At present we are entering a new, connected era where the virtual and real worlds are becoming one through applications like Facebook, MySpace and Second Life.

If you want to work with cutting-edge technology and be a part of creating technologies that have not been invented yet, this is the degree for you.

Why Choose This Course

This degree is innovative in its approach to teaching. You will experience a hands-on approach to learning through projects where you develop information technology systems and work in a collaborative team setting. The degree structure is flexible, giving you the opportunity to customise your degree to suit the area/s you wish to focus on.

Modern information technology professionals need to know more than technology; they have to understand how to shape the industries of the future, through an effective blend of information technology and business knowledge. The Faculty's close collaboration with industry ensures that the degree is structured to stay up to date with industry needs—now and into the future. This in turn enables you to acquire the right skills and knowledge needed to secure a job and progress your career.

As the Area Academy Training Centre, Australia and New Zealand for the CISCO Networking Academy Program, we also offer you a range of CISCO programs. As a QUT Bachelor of Information Technology student, completion of any CISCO programs at QUT can be credited to your QUT degree.

Through our flexible degree program, with opportunities for engagement with real world professionals and industry leaders, and work experience program options, you will have the opportunity to prepare yourself for the future and realise your full potential.

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 deploying a range of applications and services.

Career Outcomes

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

Professional Recognition

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

Your Course

Year 1

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

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

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

Year 2

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

Core unit for Year 2:
• Scalable Systems Development

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

Year 3

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

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

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

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 on deferment.

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 CEED project or for an ACS Foundation scholarship.

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

Find out more about the Cooperative Education Program.

Further Information

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

Course Co-ordinator

Mr Richard Thomas
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT23 Bachelor of Information Technology Course structure 2011

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
INB103	Industry Insights
INB104	Building IT Systems

Year 1, Semester 2	
	IT Breadth Option Unit
	IT Breadth Option Unit
	IT Breadth Option Unit
	Complementary Studies Unit

Year 2, Semester 1	
INB201	Scalable Systems Development
	[Note: INB201 can only be taken after you have completed a minimum of 36 credit points of breadth units. Please note: INB201 available semester 1 only.]
	IT Breadth Option Unit
	IT Specialisation Option Unit
	Complementary Studies Unit

Year 2, Semester 2	
	IT Specialisation Option Unit
	Complementary Studies Unit
	Complementary Studies Unit
	Complementary Studies Unit

FACULTY OF SCIENCE AND TECHNOLOGY

Year 3, Semester 1

INB300	Professional Practice in IT
INB301	The Business of IT
	[Note: INB300 and INB301 can only be taken after you have completed a minimum of 168 credit points of study.]
	IT Specialisation Option Unit
	Complementary Studies Unit

Year 3, Semester 2

INB302	IT Capstone Project
	[Note: INB301 must be completed before enrolling in INB302.]
	IT Specialisation Option Unit
	Complementary Studies Unit
	Complementary Studies Unit

IT23 Bachelor of Information Technology Course structure 2010

Year 1, Semester 1

INB101	Impact of IT
INB102	Emerging Technology
INB103	Industry Insights
INB104	Building IT Systems

Year 1, Semester 2

	IT Breadth Option Unit
	IT Breadth Option Unit
	IT Breadth Option Unit
	Complementary Studies Unit

Year 2, Semester 1

INB201	Scalable Systems Development
	[Note: INB201 can only be taken after you have completed a minimum of 36 credit points of breadth units. Please note: INB201 available semester 1 only.]
	IT Breadth Option Unit
	IT Specialisation Option Unit
	Complementary Studies Unit

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
INB301	The Business of IT
	[Note: INB300 and INB301 can only be taken after you have completed a minimum of 168 credit points of study.]
	IT Specialisation Option Unit
	Complementary Studies Unit

Year 3, Semester 2

INB302	Capstone Project
	[Note: INB301 must be completed before enrolling in INB302.]
	IT Specialisation Option Unit
	Complementary Studies Unit
	Complementary Studies Unit

IT Breadth Option Unit List

IT Breadth Option Units

You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.

INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Foundations of Computer Science
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.

1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB343	Advanced Data Mining and Data Warehousing
INB344	Search Engine Technology
3.	DIGITAL ENVIRONMENTS:
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications

INB335   Information Resources

4.   ENTERPRISE SYSTEMS:

INB123   Project Management Practice

INB221   Technology Management

INB311   Enterprise Systems

INB312   Enterprise Systems Applications

5.   NETWORK SYSTEMS:

INB350   Internet Protocols and Services

INB351   Unix Network Administration

INB352   Network Planning

INB353   Wireless and Mobile Networks

6.   SOFTWARE ENGINEERING:

INB370   Software Development

INB371   Data Structures and Algorithms

INB372   Agile Software Development

INB374   Enterprise Software Architecture

7.   WEB TECHNOLOGIES:

INB313   Electronic Commerce Site Development

INB373   Web Application Development

INB374   Enterprise Software Architecture

INB385   Multimedia Systems

INB386   Advanced Multimedia Systems

8.   UNGROUPED:

INB204   Special Topic 1

INB205   Special Topic 2

INB304   Special Topic 3

INB305   Special Topic 4

INB306   Project 1

INB307   Project 2

INB308   Project 3

INB355   Cryptology and Protocols

INB365   Systems Programming

INB381   Modelling and Animation Techniques

INB382   Real Time Rendering Techniques

INB860   Computational Intelligence for Control and Embedded Systems

IT - Complementary Study Unit List

Complementary Study Units: A maximum of 96 credit points can be chosen from:

1.   The list of Breadth and Specialisation units.

2.   Students can also choose from the range of CISCO units including INS350, INS351, INS352, INS354, INS356 and INS357.

3.   Undergraduate units from other IT related degrees (e.g. INB124, INB180, INB181, INB182, INB280 or INB383).

4.   Undergraduate units available with other QUT faculties.

5.   Enrolment in INB830 or INB870 will NOT be counted towards completion of IT23.

NOTE: A maximum of 48 credit points of Advanced Standing for professional certifications is permitted towards completion of IT23 (including INS35X CISCO Units).

CISCO Units

CISCO Units	
	Students can choose from the following CISCO units as part of the Complementary Study Units (CISCO units located under Information Technology University Wide Unit Options on e-Student.)
INS350	CCNA 1&2 Network Fundamentals and Routing
INS351	CCNA 3&4 Lan Switching
INS352	CCNP1: Building Scalable Internetworks
INS354	CCNP3: Building Multi Layered Switched Networks
INS356	Voice Over IP 1
INS357	CISCO VOIP

IT23 Course structure - Part-time

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems

Year 2, Semester 1	
	Breadth Option
	Breadth Option

Year 2, Semester 2	
	Breadth Option
	Breadth Option

Year 3, Semester 1	
INB201	Scalable Systems Development
	[Note: INB201 can only be taken after you have completed a minimum of 36 credit points of breadth units.]
	Specialisation Option

Year 3, Semester 2	
	Specialisation Option
	Complemenatry Studies Unit (Elective)

Year 4, Semester 1	
	Specialisation Option
	Complemenatry Studies Unit (Elective)

Year 4, Semester 2	

Complemenatry Studies Unit (Elective)

Complemenatry Studies Unit (Elective)

Year 5, Semester 1

Specialisation Option

Complemenatry Studies Unit (Elective)

Year 5, Semester 2

INB300   Professional Practice in IT

Complemenatry Studies Unit (Elective)

Year 6, Semester 1

INB301   The Business of IT

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

Complemenatry Studies Unit (Elective)

Year 6, Semester 2

INB302   IT Capstone Project

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

Complemenatry Studies Unit (Elective)

IT23 Course structure - Mid-Year entry

Year 1, Semester 1 (July)

INB101   Impact of IT

INB102   Emerging Technology

INB103   Industry Insights

INB104   Building IT Systems

Year 1, Semester 2 (February)

Breadth Option

Breadth Option

Breadth Option

Complementary Studies Unit (Elective)

Year 2, Semester 1 (July)

Breadth Option

Specialisation Option

Complementary Studies Unit (Elective)

Complementary Studies Unit (Elective)

Year 2, Semester 2 (February)

INB201   Scalable Systems Development

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

Specialisation Option

Complementary Studies Unit (Elective)

Complementary Studies Unit (Elective)

Year 3, Semester 1 (July)

INB300   Professional Practice in IT

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

Specialisation Option

Complementary Studies Unit (Elective)

Complementary Studies Unit (Elective)

Year 3, Semester 2 (February)

INB301   The Business of IT

INB302   IT Capstone Project

[Note: INB301 can only be taken after you have completed a minimum of 168 credit points of study. INB301 may be taken concurrently with INB302 for students whose course completes in the middle of the year.]

Specialisation Option

Complementary Studies Unit (Elective)

Potential Careers:

Business Analyst, Computer Scientist, Data Communications Specialist, Database Manager, Electronic Commerce Developer, Information Officer, Network Administrator, Programmer, Software Engineer, Systems Analyst, Systems Programmer, Web Designer.

Bachelor of Information Technology - Dean's Scholars Program (IT23)

Year offered: 2011
Admissions: Yes
CRICOS code: 012656E
Course duration (full-time): 3 years
Domestic fees (indicative): 2011: CSP $3,886 (indicative) per semester
International Fees (indicative): 2011: $11,375 (indicative) per semester
Domestic Entry: February: Fixed closing date - 26th November, 2010
International Entry: February: Fixed closing date - 26th November, 2010. This course is only available to international students completing Year 12 in Australia
QTAC code: 418002
Past rank cut-off: 97 plus successful questionnaire and interview. Please refer to Additional Entry Requirements.
Past OP cut-off: 2 plus successful questionnaire and interview. Please refer to Additional Entry Requirements.
Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Course coordinator: Richard Thomas
Campus: Gardens Point

Course Overview

The Dean's Scholars Program is an accelerated honours program allowing completion of the Bachelor of Information Technology and an honours degree in three years instead of four years. This accelerated program is designed for students with an OP 1 or 2 (or equivalent), who can also demonstrate active involvement in their school and local community activities.

The Bachelor of Information Technology gives you a strong theoretical and practical foundation to advance your career aspirations, choosing from compact and focused specialisations allowing you to hone your skills in an advanced area of information technology and other professions.

You will have the flexibility to complement your skills and knowledge in IT with a cross-section of studies from other disciplines.

Prerequisites

Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia; successful questionnaire; interview.

Additional Entry Requirements

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

Fixed closing date

Applications and questionnaires must be submitted by 30 November.

Financial support

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

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

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

OP guarantee

The OP Guarantee does not apply to this program.

Cooperative Education Program

The School of IT'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.

Deferment

QUT's deferment policy does not apply to this course.

Further Information

For further information about this course, please contact:

Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Unit Incompatibility/Translation Information

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

Course structure 2011

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
INB103	Industry Insights
INB104	Building IT Systems

Year 1, Semester 2	

Breadth Option

Breadth Option

Breadth Option

Complementary Studies unit (Elective)

Complementary Studies unit (Elective)

Note:

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

Year 2, Semester 1

INB201	Scalable Systems Development
	Breadth Option
	Specialisation Option
	Specialisation Option
	Complementary Studies unit (Elective)

Year 2, Semester 2

INB301	The Business of IT
	Specialisation Option
	Specialisation Option
	Complementary Studies unit (Elective)
	Complementary Studies unit (Elective)

Year 3, Semester 1

INB300	Professional Practice in IT
INB302	IT Capstone Project
	Postgraduate IT Unit
	Complementary Studies unit (Elective)
	Complementary Studies unit (Elective)

Year 3, Semester 2

INN700	Introduction To Research
INN701	Advanced Research Topics
	Postgraduate IT Unit
INN401	Honours Dissertation 1

Year 3, Summer

INN402	Honours Dissertation 2
INN403	Honours Dissertation 3
INN404	Honours Dissertation 4

Course structure 2010

Year 1, Semester 1

INB101	Impact of IT
INB102	Emerging Technology
INB103	Industry Insights
INB104	Building IT Systems

Year 1, Semester 2

Breadth Option

Breadth Option

Breadth Option

Complementary Studies unit (Elective)

Year 2, Semester 1

INB201	Scalable Systems Development
	Breadth Option
	Specialisation Option
	Complementary Studies unit (Elective)
	Specialisation Option or Complementary Studies unit (Elective)

Year 2, Semester 2

INB301	The Business of IT
	Specialisation Option
	Complementary Studies unit (Elective)
	Complementary Studies unit (Elective)
	Specialisation Option or Complementary Studies unit (Elective)

Year 2, Summer

| INB302 | Capstone Project |

Year 3, Semester 1

INB300	Professional Practice in IT
	INN Elective
	Complementary Studies unit (Elective)
	Specialisation Option or Complementary Studies unit (Elective)
	Specialisation Option or Complementary Studies unit (Elective)

Year 3, Semester 2

INN700	Introduction To Research
	INN Elective
	INN Elective
	Honours Dissertation 1

Year 3, Summer

Honours Dissertation 2

Honours Dissertation 3

Honours Dissertation 4

IT Breadth Option Unit List

IT Breadth Option Units

You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.

INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis

INB250	Foundations of Computer Science
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.

1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB343	Advanced Data Mining and Data Warehousing
INB344	Search Engine Technology
3.	DIGITAL ENVIRONMENTS:
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB335	Information Resources
4.	ENTERPRISE SYSTEMS:
INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
5.	NETWORK SYSTEMS:
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks
6.	SOFTWARE ENGINEERING:
INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development
INB374	Enterprise Software Architecture
7.	WEB TECHNOLOGIES:
INB313	Electronic Commerce Site Development

INB373	Web Application Development
INB374	Enterprise Software Architecture
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
8.	UNGROUPED:
INB204	Special Topic 1
INB205	Special Topic 2
INB304	Special Topic 3
INB305	Special Topic 4
INB306	Project 1
INB307	Project 2
INB308	Project 3
INB355	Cryptology and Protocols
INB365	Systems Programming
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
INB860	Computational Intelligence for Control and Embedded Systems

IT - Complementary Study Unit List

Complementary Study Units: A maximum of 84 credit points can be chosen from:

1.	The list of Breadth and Specialisation units.
2.	Students can also choose from the range of CISCO units including INS350, INS351, INS352, INS354, INS356 and INS357.
3.	Undergraduate units from other IT related degrees (e.g. INB124, INB180, INB181, INB182, INB280 or INB383).
4.	Undergraduate units available with other QUT faculties.
5.	Enrolment in INB830 or INB870 will NOT be counted towards completion of IT23.
NOTE:	A maximum of 48 credit points of Advanced Standing for professional certifications is permitted towards completion of IT23 (including INS5XX CISCO Units).

CISCO Units

CISCO Units

Students can choose from the following CISCO units as part of the Complementary Study Units (CISCO units located under Information Technology University Wide Unit Options on e-Student.)

INS350	CCNA 1&2 Network Fundamentals and Routing
INS351	CCNA 3&4 Lan Switching
INS352	CCNP1: Building Scalable Internetworks
INS354	CCNP3: Building Multi Layered Switched Networks
INS356	Voice Over IP 1
INS357	CISCO VOIP

Postgraduate IT Units

Unit List:

INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN323	Smart Services
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN334	Information Issues and Values
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN383	AI for Games
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN546	Major Issues in Health Technology
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology

Students must first seek permission from the Course Coordinator to enrol in the following:

INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

Bachelor of Information Technology (Honours) (IT28)

Year offered: 2011
Admissions: Yes
CRICOS code: 017323G
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (indicative): 2011: CSP $3,878 (indicative) per semester
International Fees (indicative): 2011: $11,375 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 96
Course coordinator: Ross Hayward
Campus: Gardens Point

Overview

Through a combination of research and advanced coursework units, you can pursue specialised studies in your particular area of interest in science and technology. An honours degree builds on your undergraduate degree studies, providing further depth of knowledge and analytical skills you can apply throughout your career. It offers opportunities to cultivate research and development skills and to work on cutting-edge technology, and provides access to specialist facilities, laboratories, hardware and software. Honours is an ideal pathway for high achieving graduates to enter the doctoral program (PhD), and provides a wider range of career opportunities, including research, analytic or teaching positions.

An honours degree can be undertaken in most of the Faculty's study areas. Consult your course coordinator in second or third year to assess what projects may be available within your areas of interest.

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.

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.

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.

Dean's Scholars Accelerated Honours Program

While this program has been designed primarily for high school leavers, high-achieving Information Technology undergraduate students may be invited by the Faculty to enter the program as an incentive to continue onto honours. Eligibility is based on a minimum grade point average basis.

The benefits of the program include:
• Information Technology students can undertake a concurrent enrolment in the honours program during the final semester of their undergraduate degree
• 12 credit points will be credited towards optional units in a student's undergraduate Information Technology degree on the basis of coursework studies completed in the honours program
• Information Technology students are able to complete a four-year program within three-and-a-half years
• participating students commence the Accelerated Honours Program in either first or second semester

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 Recogntion

You will qualify for professional accreditation and employment in the field relevant to the specialisations chosen.

Pathways

You have the opportunity to choose a study pathway:

•**professional pathway**– you will learn how to think strategically, identify opportunities and solve problems that we don't even know are problems yet. This pathway will enable you to acquire the business and IT skills to have a career as an IT professional within any industry.

•**research pathway**– if you are interested in shaping the future of the IT industry you can pursue a research career. You will have opportunities to work with researchers on projects and progress on to an honours degree. You will have access to world-leading researchers within the Faculty.

•**entrepreneurship pathway**– you now have the opportunity to gain the entrepreneurial skills to develop an idea into a commercial opportunity. You will be able to take advantage of the Faculty's close relationship with local technology entrepreneurs to learn from their experiences.

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

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

To encourage students to enter the Dean's Scholars program, domestic students have their undergraduate HECS paid by the Faculty and those proceeding to Honour's level will also receive full HECS support. International students who have completed a Year 12 education in Australia and meet the entry requirements for the program will have a third of their tuition fees paid by the Faculty for the undergraduate and Honours program.

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete IT23 with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

Important Information

Duration
Except in special circumstances as approved by the Dean, the requirements for an Honours degree must be completed within two successive years following first enrolment.

Unsatisfactory Progress
Failure to make satisfactory progress with either the course work component of an Honours program or with the dissertation, or both, may lead to exclusion from the program.

Unsatisfactory progress consists of:
- receiving a grade of less than 4 (or Satisfactory, where applicable) in one unit of the course work component.
- failure to make sufficient progress with the dissertation component, in the opinion of the Dean.

A student who is excluded from or otherwise fails to complete an Honours program will not normally be readmitted to that program.

Assessment
The minimum grade which may be credited towards an Honours degree is 4 (or Satisfactory, where applicable). A minimum of three copies of a dissertation should be presented to the supervisor for examination. Dissertations should be temporarily bound in order to facilitate the making of any revisions and editorial changes required by the examiners before final printing and binding.
Dissertations will be examined by an examining committee appointed by the Dean and consisting of a least two examiners, one of whom may be external to the University. The supervisor of the candidate's work may be a member of the committee but may not chair the committee or act as the primary examiner.

Determination of Level of Honours Awards
The Faculty Academic Board will determine the level of Honours awarded.

Honours degrees will be awarded at the following levels after account is taken of the candidate's performance in all units and appropriate weight applied to the dissertation:
Honours 1 - First Class Honours
Honours 2A - Second Class Honours, Division A
Honours 2B - Second Class Honours, Division B
Honours 3 - Third Class Honours

The level of Honours award is to be determined by guidelines, as follows:
Honours 1 - GPA 6.50-7.00, or equivalent
Honours 2A - GPA 5.50-6.49, or equivalent
Honours 2B - GPA 4.50-5.49, or equivalent
Honours 3 - GPA 4.00-4.49, or equivalent

A candidate who does not reach the standard required for Honours 3 remains with a pass degree.

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

Further Information

For further information about this course, please contact:

Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT28 - Bachelor of Information Technology (Honours) (2011)

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.

IT28 - Bachelor of Information Technology (Honours) (2010)

FULL TIME

Year 1, Semester 1

INN700	Introduction To Research
INN401	Honours Dissertation 1
INN701	Advanced Research Topics
	Elective

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
INN701	Advanced Research Topics

Year 2, Semester 1

INN403	Honours Dissertation 3
	Elective

Year 2, Semester 2

INN404	
	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.

IT28 - Bachelor of Information Technology (Honours) (2009)

FULL TIME

Year 1, Semester 1

INN700	Introduction To Research
INN401	Honours Dissertation 1
	Elective
	Elective

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 | |
| | 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.

Full-time students should be aware that many electives may be offered evenings only.

IT28 - Bachelor of Information Technology (Honours) Part-time

Year 1, Semester 1

| INN700 | Introduction To Research |
| INN401 | Honours Dissertation 1 |

Year 1, Semester 2

| INN402 | Honours Dissertation 2 |
| INN701 | Advanced Research Topics |

Year 2, Semester 1

| INN403 | Honours Dissertation 3 |
| | Honours Elective |

Year 2, Semester 2

| INN404 | Honours Dissertation 4 |
| | Honours Elective |

IT Honours Elective Units

Elective units

The following electives are only suggestions:

Approved Honours Electives

INN312	Enterprise Systems Applications
INN342	Enterprise Data Mining and Data Analysis
INN272	Interaction Design
INN385	Multimedia Systems
INN313	Electronic Commerce Site Development
INN322	Information Systems Consulting
INN500	PRINCE2 (R) Project Management
INN321	Business Process Management
INN370	Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN381	Modelling and Animation Techniques
INN181	Introduction to Games Production

Advanced Honours Electives

INN610	Case Studies in Business Process Management
INN386	Advanced Multimedia Systems
INN255	Security
INN355	Cryptology and Protocols
INN382	Real Time Rendering Techniques
INN652	Advanced Cryptology
INN570	Internationalisation of Software
INN650	Advanced Network Management
INN370	Software Development

Potential Careers:

Computer Games Developer, Data Communications Specialist, Database Manager, Electronic Commerce Developer, Internet Professional, Journalist, Network Administrator, Network Manager, Programmer, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer, Web Designer.

Bachelor of Information Technology (Honours) - Accelerated Program (IT29)

Year offered: 2011
Admissions: Yes
CRICOS code: 017323G
Course duration (full-time): 2 semesters
Domestic fees (indicative): 2011: CSP $3,893 (indicative) per semester
International Fees (indicative): 2011: $11,375 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 96
Course coordinator: Ross Hayward
Campus: Gardens Point

Overview

The **'Accelerated Honours'** program has been structured to provide an incentive for high achieving IT undergraduate students to continue into the Honours Program. Benefits of this accelerated program are:
* you are approved to undertake a concurrent enrolment in the final semester of your IT undergraduate course, that is to say, the student may enrol in undergraduate units and Honours.
* 12 credit points will be credited towards Block 3 electives in your IT undergraduate course on the basis of coursework studies completed in IT29 Honours.
* you are able to complete a four year program within 3 1/2 years.

Through a combination of research and advanced coursework units students can pursue specialised studies in a particular area of information technology. The course offers the opportunity to develop research and development skills, work on cutting-edge technology, and have access to specialist hardware and software. As a successful Honours graduate you are eligible to start a doctoral program, and can expect to obtain a research or teaching position. A wider range of career opportunities are available.

Please note: tuition fees normally apply for Summer enrolment.

Why Do Honours

The honours program will expand your career options through exposure to the world of research. Honours is also the perfect pathway to an academic career through PhD studies, where you can become an independent researcher in your own right.

An honours degree signals to potential employers that you are someone with exceptional ability, motivation and commitment to your field. It gives you the chance to integrate the practical and conceptual knowledge gained through your degree. As an honours graduate, you can clearly demonstrate an ability to undertake rigorous independent research. These skills are unique to the honours program and will differentiate you from your peers in the employment market.

Career Outcomes

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

Professional Recognition

You will qualify for professional accreditation and employment in the field relevant to the specialisations chosen.

Important Information
Assessment

The minimum grade which may be credited towards an Honours degree is 4 (or Satisfactory, where applicable). A minimum of three copies of a dissertation should be presented to the supervisor for examination. Dissertations should be temporarily bound in order to facilitate the making of any revisions and editorial changes required by the examiners before final printing and binding.
Dissertations will be examined by an examining committee appointed by the Dean and consisting of a least two examiners, one of whom may be external to the University. The supervisor of the candidate's work may be a member of the committee but may not chair the committee or act as the primary examiner.

Determination of Level of Honours Awards

The Faculty Academic Board will determine the level of Honours awarded.

Honours degrees will be awarded at the following levels after account is taken of the candidate's performance in all units and appropriate weight applied to the dissertation:

Honours 1 - First Class Honours
Honours 2A - Second Class Honours, Division A
Honours 2B - Second Class Honours, Division B
Honours 3 - Third Class Honours

The level of Honours award is to be determined by guidelines, as follows:

Honours 1 - GPA 6.50-7.00, or equivalent
Honours 2A - GPA 5.50-6.49, or equivalent
Honours 2B - GPA 4.50-5.49, or equivalent
Honours 3 - GPA 4.00-4.49, or equivalent

A candidate who does not reach the standard required for Honours 3 remains with a pass degree.

Unsatisfactory Progress

Failure to make satisfactory progress with either the course work component of an Honours program or with the dissertation, or both, may lead to exclusion from the program.

Unsatisfactory progress consists of:
- receiving a grade of less than 4 (or Satisfactory, where applicable) in one unit of the course work component.
- failure to make sufficient progress with the dissertation component, in the opinion of the Dean.

A student who is excluded from or otherwise fails to complete an Honours program will not normally be readmitted to that program.

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

Futher Information

For further information about this course, please contact:

Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT29 - Bachelor of Information Technology (Honours) - Accelerated Program (2011)

Year 3, Semester 1*	
	Elective

Year 3, Semester 2	
INN700	Introduction To Research
INN401	Honours Dissertation 1
INN701	Advanced Research Topics
	Elective

Year 3, Semester 3	
INN402	Honours Dissertation 2
INN403	Honours Dissertation 3
INN404	Honours Dissertation 4

* The first semester of the Accelerated Honours Program occurs in the final semester of an undergraduate IT course (48 credit points remaining). This involves a concurrent enrolment with the undergraduate course (36 credit points enrolment) and 12 credit points Honours elective undertaken within the IT29 course.

Elective Units - Students should choose from the list of advanced level postgraduate units. Normally units are undertaken in the area of the student's undergraduate major. Students wishing to enrol in a unit other than those listed should contact the Course Coordinator. Students should note that many electives might be offered in the evenings only.

Please note: tuition fees normally apply for Summer enrolment. Dean's Scholars should contact their IT Course Coordinator for further details.

MID YEAR ENTRY

Year 3, Semester 2*	
	Elective

Year 3, Semester 3	
INN700	Introduction To Research
INN401	Honours Dissertation 1
INN402	Honours Dissertation 2
INN701	Advanced Research Topics

Year 4, Semester 1	
INN403	Honours Dissertation 3
INN404	Honours Dissertation 4
	Elective
	Elective

* The first semester of the Accelerated Honours Program occurs in the final semester of an undergraduate IT course (48 credit points remaining). This involves a concurrent enrolment with the undergraduate course (36 credit points enrolment) and 12 credit points Honours elective undertaken within the IT29 course.

Elective Units - Students should choose advanced level postgraduate units. Normally units are undertaken in the area of the student's undergraduate major. Students wishing to enrol in a unit that is not of an advanced level should contact the Course Coordinator. Students should note that many electives might be offered in the evenings only.

Please note: tuition fees normally apply for Summer enrolment.

IT29 - Bachelor of Information Technology (Honours) - Accelerated Program (2010)

Year 3, Semester 1*	
	Elective

Year 3, Semester 2	
INN700	Introduction To Research
INN401	Honours Dissertation 1
INN701	Advanced Research Topics
	Elective

Year 3, Semester 3	
INN402	Honours Dissertation 2
INN403	Honours Dissertation 3
INN404	Honours Dissertation 4

* The first semester of the Accelerated Honours Program occurs in the final semester

of an undergraduate IT course (48 credit points remaining). This involves a concurrent enrolment with the undergraduate course (36 credit points enrolment) and 12 credit points Honours elective undertaken within the IT29 course.

Please note: tuition fees normally apply for Summer enrolment. Deans Scholars should contact their IT Course Coordinator for further details.

Elective Units - Students should choose from the list of advanced level postgraduate units. Normally units are undertaken in the area of the student's undergraduate major. Students wishing to enrol in a unit other than those listed should contact the Course Coordinator. Students should note that many electives might be offered in the evenings only.

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).

MID YEAR ENTRY

Year 3, Semester 2*

Elective

Year 3, Semester 3

INN700	Introduction To Research
INN401	Honours Dissertation 1
INN402	Honours Dissertation 2
INN701	Advanced Research Topics

Year 4, Semester 1

INN403	Honours Dissertation 3
INN404	Honours Dissertation 4
	Elective
	Elective

* The first semester of the Accelerated Honours Program occurs in the final semester of an undergraduate IT course (48 credit points remaining). This involves a concurrent enrolment with the undergraduate course (36 credit points enrolment) and 12 credit points Honours elective undertaken within the IT29 course.

Elective Units - Students should choose advanced level postgraduate units. Normally units are undertaken in the area of the student's undergraduate major. Students wishing to enrol in a unit that is not of an advanced level should contact the Course Coordinator. Students should note that many electives might be offered in the evenings only.

Please note: tuition fees normally apply for Summer enrolment.

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).

IT29 - Bachelor of Information Technology (Honours) - Accelerated Program (2009)

Year 3, Semester 1*

Elective

Year 3, Semester 2

INN700	Introduction To Research
INN401	Honours Dissertation 1
	Elective
	Elective

Year 3, Semester 3

INN402	Honours Dissertation 2
INN403	Honours Dissertation 3
INN404	Honours Dissertation 4

* The first semester of the Accelerated Honours Program occurs in the final semester of an undergraduate IT course (48 credit points remaining). This involves a concurrent enrolment with the undergraduate course (36 credit points enrolment) and 12 credit points Honours elective undertaken within the IT29 course.

Please note: tuition fees normally apply for Summer enrolment. Deans Scholars should contact their IT Course Coordinator for further details.

Elective Units - Students should choose from the list of advanced level postgraduate units. Normally units are undertaken in the area of the student's undergraduate major. Students wishing to enrol in a unit other than those listed should contact the Course Coordinator. Students should note that many electives might be offered in the evenings only.

MID YEAR ENTRY

Year 3, Semester 2*

Elective

Year 3, Semester 3

INN700	Introduction To Research
INN401	Honours Dissertation 1
INN402	Honours Dissertation 2

Year 4, Semester 1

INN403	Honours Dissertation 3
INN404	Honours Dissertation 4
	Elective
	Elective

* The first semester of the Accelerated Honours Program occurs in the final semester of an undergraduate IT course (48 credit points remaining). This involves a concurrent enrolment with the undergraduate course (36 credit points enrolment) and 12 credit points Honours elective undertaken within the IT29 course.

Elective Units - Students should choose advanced level postgraduate units. Normally units are undertaken in the area of the student's undergraduate major. Students wishing to enrol in a unit that is not of an advanced level should contact the Course Coordinator. Students should note that many electives might be offered in the evenings only.

Please note: tuition fees normally apply for Summer enrolment.

IT Honours Elective Units

Elective units	
The following electives are only suggestions:	

Approved Honours Electives	
INN312	Enterprise Systems Applications
INN342	Enterprise Data Mining and Data Analysis
INN272	Interaction Design
INN385	Multimedia Systems
INN313	Electronic Commerce Site Development
INN322	Information Systems Consulting
INN500	PRINCE2 (R) Project Management
INN321	Business Process Management
INN370	Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN381	Modelling and Animation Techniques
INN181	Introduction to Games Production

Advanced Honours Electives	
INN610	Case Studies in Business Process Management
INN386	Advanced Multimedia Systems
INN255	Security
INN355	Cryptology and Protocols
INN382	Real Time Rendering Techniques
INN652	Advanced Cryptology
INN570	Internationalisation of Software
INN650	Advanced Network Management
INN370	Software Development

Bachelor of Information Technology (Honours) - Accelerated Program Mid-Year entry

Semester 2, 2010	
	Honours Elective
	Final Semester of IT22, IT23 or IT Double Degree

Summer semester, 2010	
INN700	Introduction To Research
INN401	Honours Dissertation 1
INN402	Honours Dissertation 2

Semester 1, 2011	
INN403	Honours Dissertation 3
INN404	Honours Dissertation 4
	Honours Elective
	Honours Elective

Potential Careers:

Academic, Business Analyst, Computer Games Developer, Computer Salesperson/Marketer, Computer Systems Engineer, Data Communications Specialist, Database Manager, Electrical and Computer Engineer, Information Officer, Information Security Specialist, Internet Professional, Multimedia Designer, Network Administrator, Network Manager, Systems Analyst, Systems Manager, Systems Programmer, Systems Trainer.

Graduate Diploma in Information Technology (IT Graduates) (IT35)

Year offered: 2011
Admissions: No
CRICOS code: 018771J
Course duration (full-time): 1 years
Course duration (part-time): 2 years
Domestic fees (indicative): 2011: Full fee tuition $7,500 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Total credit points: 96
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

Course Overview

This program is designed for information technology graduates who wish to update and upgrade their knowledge and skills for purposes of further career development. The course assists IT graduates to acquire specialised knowledge in an area of information technology and/or widen their knowledge into new areas of information technology.

Course is under review

From semester one, 2009 this course will not be available for commencing students. IT35 will only be available for continuing students. New students - please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries

Entry Requirements

Applicants for either IT35 or IT40 must have:
a) a bachelors degree in Information Technology with a grade point average of at least 4.5 (7-point scale) OR
b) provide other evidence of such qualifications and significant full-time IT work experience, as will satisfy the Dean of Faculty that the applicant possesses the capacity to pursue the course of study

Applicants who wish to gain entry into this course, based on IT work experience, are encouraged to complete a Graduate Equivalency Proforma .

Course Structure

Students who commenced Semester 2, 2006 or later

To graduate from the Master of Information Technology, students are required to complete 12 units, consisting of:

• 1 x Compulsory Unit – INN500 IT Project Management
• A minimum of 6 x Advanced Level 1 Units (including INN500)
• A minimum of 1 x Advanced Level 2 Units
• A maximum of 3 x Postgraduate level Elective Units selected from outside the Faculty, in consultation with the Course Coordinator

To exit the Masters course with a Graduate Diploma in Information Technology, students are required to complete 8 units, consisting of:

• 1 x Compulsory Unit – INN500 IT Project Management
• A minimum of 5 x Advanced Level 1 Units (including INN500)
• A minimum of 1 x Advanced Level 2 Units

Students who commenced Semester 1, 2004 and prior to Semester 2, 2006

To graduate from the Master of Information Technology, students are required to complete 12 units, consisting of:

• A minimum of 6 x Advanced Level 1 Units
• A minimum of 1 x Advanced Level 2 Units

To exit the Masters course with a Graduate Diploma in Information Technology, students are required to have completed 8 units, consisting of:

• A minimum of 5 x Advanced Level 1 Units
• A minimum of 1 x Advanced Level 2 Units

Articulation

Moving Between Courses

Domestic Students currently enrolled in the Graduate Diploma in Information Technology (IT35) or the Graduate Certificate (IT89, IT90, IT92, IT93, IT94, IT95, IT96, IT98, IT99), are in nested program courses. Upon successful completion of your course, domestic students will be invited to continue with the next stage of the program in the following teaching period. An email will be sent you student email account inviting you continue. If you accept the option to articulate immediately, you will not be required to complete an application for academic credit as units and grades achieved in the lower award will be transferred to the new course.

 Students in the Masters course (IT40) wishing to exit with the Graduate Diploma (IT35) are required to submit an Application to Graduate Early with an Approved Exit Course (SRX) Form. These forms must be submitted by Week 13 in the semester you expect to meet the requirements for either the Graduate Diploma or Graduate Certificate.

International students wishing to change courses should consult International Student Business Services.

Unit Incompatibility/Translation Information

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

Further Information

For further information about this course, please contact:

Ernest Foo

Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT35/40/48 v1Master of Information Technology (IT Graduates)

Course Structure 2009

From semester one, 2009 this course will not be available for commencing students. IT35 will only be available for continuing students. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Compulsory Unit*

INN500	PRINCE2 (R) Project Management	

Only for students who commenced Semester 2, 2006 or later

Advanced Level 1 Units

INN272	Interaction Design
INN280	Fundamentals of Game Design
INN281	Advanced Game Design
INN313	Electronic Commerce Site Development
INN312	Enterprise Systems Applications
INN321	Business Process Management
INN322	Information Systems Consulting
INN342	Enterprise Data Mining and Data Analysis
INN385	Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN371	Data Structures and Algorithms
INN365	Systems Programming
INN370	Software Development
INS452	CCNP1: Building Scalable Internetworks
INN352	Network Planning
INN373	Web Application Development
INS454	CCNP3: Building Multi Layered Switched Networks
INN353	Wireless and Mobile Networks
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INS455	CCNP4: Optimising Converged Networks
INN181	Introduction to Games Production
INS456	Voice Over IP 1
INS453	CCNP 2: Building Multi Layered Switched Networks
INS457	Voice Over IP 2

Project - 12 and 24 credit points (See Project Units for codes)

Advanced Level 2 Units

INN700	Introduction To Research
INN610	Case Studies in Business Process Management
INN386	Advanced Multimedia Systems
INN382	Real Time Rendering Techniques
INN652	Advanced Cryptology
INN570	Internationalisation of Software
INN650	Advanced Network Management
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN701	Advanced Research Topics

Project Units

INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

Intermediate Level Units

With the approval of the Course Coordinator, students seeking skills in a new IT specialisation can select up to two (2) units from the following list of units.

INN271	The Web
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INN341	Software Development With Oracle
INN311	Enterprise Systems
INN340	Database Design
INN330	Information Management
INN335	Information Resources
INN372	Agile Software Development
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN255	Security
INN355	Cryptology and Protocols
INN370	Software Development

IT89 - Graduate Certificate in IT (Wireless Games Technology)

Four (4) units to be selected from the following

INN272	Interaction Design
INN350	Internet Protocols and Services

| INN353 | Wireless and Mobile Networks |
| INN381 | Modelling and Animation Techniques |

IT90 Graduate Certificate in IT (Computer Networks)

4 Units to be completed	
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN353	Wireless and Mobile Networks
INN650	Advanced Network Management

IT92 Grad Cert in Information Technology (Information Security)

Four (4) units to be completed	
INN690	Minor Project 1
INN255	Security
INN355	Cryptology and Protocols
INN652	Advanced Cryptology

IT93 - Graduate Certificate in IT (Enterprise Wide Software)

Four (4) units to be completed	
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN610	Case Studies in Business Process Management
INN321	Business Process Management

IT94 - Graduate Certificate in IT (Electronic Commerce)

Four (4) units to be selected from the following	
INN271	The Web
INN340	Database Design
INN313	Electronic Commerce Site Development
INN255	Security

IT95 - Graduate Certificate in IT (Project)

48 credit points to be completed either full time or part-time	
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2
	IT Elective

IT96 - Graduate Certificate in IT (Information Technology Management)

Four (4) units to be completed	
INN221	Technology Management
INN322	Information Systems Consulting
INN330	Information Management
INN500	PRINCE2 (R) Project Management

IT98 - Graduate Certificate in IT (Multimedia)

Four (4) units to be selected from the following	
INN271	The Web
INN272	Interaction Design
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems

IT99 - Graduate Certificate in IT (Component Software and Web Services)

Four (4) units to be completed	
INN372	Agile Software Development
INN370	Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture

Potential Careers:

Business Analyst, Data Communications Specialist, Database Manager, Electronic Commerce Developer, Multimedia Designer, Network Administrator, Network Manager, Programmer, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer.

Graduate Diploma In Information Technology (IT37)

Year offered: 2011
Admissions: No
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $12,750 (indicative) per semester
Total credit points: 96
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

Course Overview

Information technology is now firmly ensconced in society with all the other business practices that constitute modern organisations. This Graduate Diploma course has interfaculty contributions from the Faculties of IT, 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
• Software Architecture
• Network Management
• Enterprise Systems
• Games Production
• Games Design
• Security
• Library and Information Science
• Information Management
• Digital Environments
• Executive Information Practice

The Graduate Diploma in Information Technology IT37 is an exit only option. However it is nested within the Master of Information Technology IT43 and Master of Information Technology Advanced IT44 courses. Students who complete the Graduate Diploma may return to complete the Masters at a later date and claim credit for all units completed in the Graduate Diploma.

The Graduate Diploma does not provide a pathway to follow on with a research degree (Research Masters, Professional Doctorate or PhD).

Course Structure

Students are required to complete 96 credit points of units. All students are required to complete the specified core unit in IT Project Management. This course may be taken over two semesters full-time or four semesters part-time.

Further Information

For further information about this course, please contact:

Dr Ross Hayward

Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT37 - Graduate Diploma In Information Technology

Core	
INN500	PRINCE2 (R) Project Management

Major Study Areas	
	Students choose one of the following majors (see Major option list):
	No Major
	Software Architecture
	Network Management
	Enterprise Systems
	Games Production
	Games Design
	Security
	Executive Information Practice
	Library and Information Science
	Information Management
	Digital Environments

IT37 - Major Options

A Major block has 84 credit points plus a 48 credit point Elective block

Information Technology	
DO	*Any IT postgraduate units not in the "Basic Unit List", such that at least one unit is of the form: INN5xx, INN6xx or INN7xx and the total unit set equals 84 credit points

Software Architecture	
DO	*All of these units:
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN374	Enterprise Software Architecture
INN570	Internationalisation of Software
PLUS	*Units to 36 credit points from:
INN700	Introduction To Research
INN271	The Web
INN313	Electronic Commerce Site Development
INN373	Web Application Development
INN365	Systems Programming
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3

Enterprise Systems

DO	*All of these units:
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN374	Enterprise Software Architecture
INN610	Case Studies in Business Process Management
PLUS	*Units to 36 credit points from:
INN700	Introduction To Research
INN340	Database Design
INN342	Enterprise Data Mining and Data Analysis
INN341	Software Development With Oracle
INN321	Business Process Management
INN220	Business Analysis
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3

Network Management

DO	*All of these units:
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN650	Advanced Network Management
PLUS	*Units to 36 credit points from:
INN700	Introduction To Research
INN353	Wireless and Mobile Networks
INN255	Security
INN651	Security Technologies
INN355	Cryptology and Protocols
INN652	Advanced Cryptology
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
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS453	CCNP 2: Implementing Secure Network Coverage
INS454	CCNP3: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Games Production

DO	*All of these units:
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN600	Advanced Readings 1
INN601	Advanced Readings 2
PLUS	*Units to 36 credit points from:
INN220	Business Analysis
INN321	Business Process Management
INN330	Information Management
INN311	Enterprise Systems
INN700	Introduction To Research

Games Design

DO	*All of these units:
INN180	Computer Games Studies
INN280	Fundamentals of Game Design
INN281	Advanced Game Design
INN272	Interaction Design
PLUS	*Units to 36 credit points from:
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
INN282	Games Level Design

Security

DO	*All of these units:
INN255	Security
INN651	Security Technologies
PLUS	*Units to 60 credit points from:
INN700	Introduction To Research
INN355	Cryptology and Protocols
INN652	Advanced Cryptology
INN550	Computer Forensics
MGN524	Special Topic in Management 1
AYN410	Business Law and Ethics
MGN433	Managing High-Performance Organisations
MGN423	Contemporary Strategic Analysis
GSN440	Risk Management 1
JSN106	Analytical Methods of Intelligence
MAN778	Applications of Discrete Mathematics

LWN139	Privacy Law
LWN125	Electronic Commerce Law
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3

Library and Information Science

DO	Units to 84 credit points:
INN332	Information Retrieval
INN531	Information Services
INN533	Information Organisation
INN333	Information Programs
INN530	Web Content Reliability
INN532	Information Literacy Education
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN330	Information Management
INN331	Management Issues for Information Professionals

Information Management

DO	*All of these units:
INN330	Information Management
SPN637	Managing Knowledge in Learning Organisations
INN122	Organisational Databases
INN255	Security
INN335	Information Resources
INN220	Business Analysis
PLUS	*One of these units:
INN700	Introduction To Research
INN334	Information Issues and Values
INN540	User Experience

Executive Information Practice

DO	*All of these units:
INN630	Evidence Based Practice
INN631	Executive Coaching
INN690	Minor Project 1
INN334	Information Issues and Values
PLUS	*Six of these units:
GSN401	Managing in the Global Business Environment
GSN403	Understanding Data
GSN404	Financial Statements Analysis
GSN405	Strategic Management
GSN406	Human Resource Management Issues
GSN407	Business Communication
GSN408	Fundamentals of Marketing Management
GSN409	Organisational Behaviour 1
GSN410	Entrepreneurship
GSN412	Business Law 1
GSN413	Financial Management 1
GSN415	Understanding Leadership
GSN491	Economics in Business 1

Digital Environments

DO	*All of these units:
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN540	User Experience
INN690	Minor Project 1
KCP408	Exploring New Media Worlds
PLUS	*IT postgraduate units to 12 credit points, not in the "Basic Unit List".

Basic Unit List

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design

Graduate Diploma in Information Technology (Non-IT Graduates) (IT38)

Year offered: 2011
Admissions: No
CRICOS code: 018771J
Course duration (full-time): 2 semesters
Course duration (part-time): 4 semesters
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February, July and November
International Entry: February, July and November
Total credit points: 96
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

Course update

From 2009 this course will no longer be offered for commencing students and will only be available to continuing students.
Commencing students please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries or call 3138 2782.

Course Overview

This program is designed for non-IT graduates who wish to broaden career opportunities by gaining a postgraduate IT qualification. The programs allow students to specialise in a wide range of areas including software engineering, data communications and information systems.

These programs aim to build on non-IT skills acquired in previous study, such as critical and analytical skills; as well as provide an IT curriculum with depth and breadth, from introductory to advanced level.

Students are encouraged to focus on those parts of the employment spectrum where cross-disciplinary qualifications are most appreciated.

Course Structure

To graduate with a Graduate Diploma in Information Technology (IT38), students are required to have completed 8 units, including:
1 x Compulsory Unit - INN500 IT Project Management
A Minimum of 3 x Basic Level Units
4 x Chosen from Intermediate or Advanced Level 1 Units

Further Information

For further information about this course, please contact:

Ernest Foo
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Potential Careers:

Business Analyst, Data Communications Specialist, Database Manager, Electronic Commerce Developer, Internet Professional, Multimedia Designer, Network Administrator, Network Manager, Programmer, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer.

Master of Information Technology (IT Graduates) (IT40)

Year offered: 2011
Admissions: No
CRICOS code: 003776E
Course duration (full-time): 3 semesters
Course duration (part-time): 6 semesters
Domestic fees (indicative): 2011: Full fee tuition $7,500 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Total credit points: 144
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

Course Overview

The Master of Information Technology — with associated nested graduate diploma and graduate certificates — can be tailored for information technology graduates who wish to revise, update or extend their IT skills and knowledge.

Students may take the Master of Information Technology as a broad-based qualification or choose to specialise in a particular area such as networks, security, enterprise systems, software development, IT management or games development.

With multiple specialisations now emerging in IT, applicants with existing IT qualifications may wish to study advanced units in their own specialisation, and/or move into an entirely different study of IT.

IT graduates who are unsure about enrolling in a full Masters program may like to enrol in a Graduate Certificate or Graduate Diploma which can then be used to articulate into the Master of Information Technology (IT40).

Course Update

From semester one, 2009 this course will not be available for commencing students. IT40 will only be available for continuing students. New students - please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Entry Requirements

A bachelor degree majoring in information technology with a grade point average of at least 4.5 (on a 7-point scale) **OR** evidence of work experience and/or training equivalent to an IT major.

Course Structure

Students who commenced Semester 2, 2006 or later

To graduate from the Master of Information Technology, students are required to complete 12 units, consisting of:

• 1 x Compulsory Unit – INN500 IT Project Management
• A minimum of 6 x Advanced Level 1 Units (including INN500)
• A minimum of 1 x Advanced Level 2 Units
• A maximum of 3 x Postgraduate level Elective Units

selected from outside the Faculty, in consultation with the Course Coordinator

To exit the Masters course with a Graduate Diploma in Information Technology, students are required to complete 8 units, consisting of:

• 1 x Compulsory Unit – INN500 IT Project Management
• A minimum of 5 x Advanced Level 1 Units (including INN500)
• A minimum of 1 x Advanced Level 2 Units

Students who commenced Semester 1, 2004 and prior to Semester 2, 2006

To graduate from the Master of Information Technology, students are required to complete 12 units, consisting of:

• A minimum of 6 x Advanced Level 1 Units
• A minimum of 1 x Advanced Level 2 Units

To exit the Masters course with a Graduate Diploma in Information Technology, students are required to have completed 8 units, consisting of:

• A minimum of 5 x Advanced Level 1 Units
• A minimum of 1 x Advanced Level 2 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.

Further Information

For further information about this course, please contact:

Dr Ernest Foo
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT35/40/48 v1 Master of Information Technology (IT Graduates)

Course Structure 2009

From semester one, 2009 this course will not be available for commencing students. IT35 will only be available for continuing students. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Compulsory Unit*

INN500	PRINCE2 (R) Project Management
	Only for students who commenced Semester 2, 2006 or later

Advanced Level 1 Units

INN272	Interaction Design
INN280	Fundamentals of Game Design

INN281	Advanced Game Design
INN313	Electronic Commerce Site Development
INN312	Enterprise Systems Applications
INN321	Business Process Management
INN322	Information Systems Consulting
INN342	Enterprise Data Mining and Data Analysis
INN385	Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN371	Data Structures and Algorithms
INN365	Systems Programming
INN370	Software Development
INS452	CCNP1: Building Scalable Internetworks
INN352	Network Planning
INN373	Web Application Development
INS454	CCNP3: Building Multi Layered Switched Networks
INN353	Wireless and Mobile Networks
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INS455	CCNP4: Optimising Converged Networks
INN181	Introduction to Games Production
INS456	Voice Over IP 1
INS453	CCNP 2: Building Multi Layered Switched Networks
INS457	Voice Over IP 2
	Project - 12 and 24 credit points (See Project Units for codes)

Advanced Level 2 Units

INN700	Introduction To Research
INN610	Case Studies in Business Process Management
INN386	Advanced Multimedia Systems
INN382	Real Time Rendering Techniques
INN652	Advanced Cryptology
INN570	Internationalisation of Software
INN650	Advanced Network Management
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN701	Advanced Research Topics

Project Units

INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

Intermediate Level Units

	With the approval of the Course Coordinator, students seeking skills in a new IT specialisation can select up to two (2) units from the following list of units.
INN271	The Web
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INN341	Software Development With Oracle
INN311	Enterprise Systems
INN340	Database Design
INN330	Information Management
INN335	Information Resources
INN372	Agile Software Development
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN255	Security
INN355	Cryptology and Protocols
INN370	Software Development

IT89 - Graduate Certificate in IT (Wireless Games Technology)

Four (4) units to be selected from the following

INN272	Interaction Design
INN350	Internet Protocols and Services
INN353	Wireless and Mobile Networks
INN381	Modelling and Animation Techniques

IT90 Graduate Certificate in IT (Computer Networks)

4 Units to be completed

INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN353	Wireless and Mobile Networks
INN650	Advanced Network Management

IT92 Grad Cert in Information Technology (Information Security)

Four (4) units to be completed

INN690	Minor Project 1
INN255	Security
INN355	Cryptology and Protocols
INN652	Advanced Cryptology

IT93 - Graduate Certificate in IT (Enterprise Wide

Software)

Four (4) units to be completed

INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN610	Case Studies in Business Process Management
INN321	Business Process Management

IT94 - Graduate Certificate in IT (Electronic Commerce)

Four (4) units to be selected from the following

INN271	The Web
INN340	Database Design
INN313	Electronic Commerce Site Development
INN255	Security

IT95 - Graduate Certificate in IT (Project)

48 credit points to be completed either full time or part-time

INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2
	IT Elective

IT96 - Graduate Certificate in IT (Information Technology Management)

Four (4) units to be completed

INN221	Technology Management
INN322	Information Systems Consulting
INN330	Information Management
INN500	PRINCE2 (R) Project Management

IT98 - Graduate Certificate in IT (Multimedia)

Four (4) units to be selected from the following

INN271	The Web
INN272	Interaction Design
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems

IT99 - Graduate Certificate in IT (Component Software and Web Services)

Four (4) units to be completed

INN372	Agile Software Development
INN370	Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture

Potential Careers:

Business Analyst, Data Communications Specialist, Database Manager, Electronic Commerce Developer, Internet Professional, Multimedia Designer, Network Administrator, Network Manager, Programmer, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer.

Master of Information Technology (IT43)

Year offered: 2011
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Discipline coordinator: Dr Yue Xu
Campus: Gardens Point

IT43 - Master of Information Technology (Null Major Option)

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.

Basic Unit List

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management

INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

Master of Information Technology (IT43)

Year offered: 2011
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): Refer to majors
International Fees (indicative): Refer to majors
Domestic Entry: February and July (LIS part-time only in July)
International Entry: February and July (LIS part-time only in July)
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

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 and Technology, 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 Science (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 Science major.

Students who complete the Master of Information Technology (IT43) may return to complete the Master of Information Technology (Advanced) (IT44) at a later date and claim credit for all units completed in IT43.

Electives:

Students can generally select up to 4 electives; again, the exception is in the Library and Information Science major, where students can select no more than two electives.

Non-cognate students are recommended to select three Basic Elective Units as their electives.

Students wishing to use the Masters program as a pathway to a PhD program within QUT are recommended to select 4 advanced research or project units as their electives. These students are also advised to enrol in INN700 Introduction to Research as part of their major.

It is possible, for students who wish, to complete dual Master degrees. Students can receive up to four units of credit for a previous Masters degree as part of their elective unit block. Thus, they are only required to complete the major and core. Students may then receive their Masters degree from the Faculty of Science and Technology 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 Science major is offered in multimodal delivery allowing students to complete their studies either face-to-face or online.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

Special Entry Requirements

Library and Information Science:

- 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).

Executive information practice:

- has core units from the MBA and as such must also meet the MBA entry requirements:
o Demonstrate competency in the English language
o Have a GMAT score of at least 500
o Have at least three years work experience
o At least 10 points from at least two of the three categories - prior work experience, academic achievement and management aptitude
o For further information please see http://www.bus.qut.edu.au/courses/postgraduate/mba/.

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.

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.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points

Further Information

For further information about this course, please contact:

Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au top

IT43 - Master of Information Technology

Core	
INN500	PRINCE2 (R) Project Management

Major Study Areas	

Students choose one of the following majors (see Major option list):

No Major

Software Architecture

Network Management

Enterprise Systems

Games Production

Games Design

Security

Executive Information Practice

Library and Information Science

Information Management

Digital Environments

Special Entry Requirements	

Library and Information Science:

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).

Executive information practice:

Has core units from the MBA and as such must also meet the MBA entry requirements:

- Demonstrate competency in the English language

- Have a GMAT score of at least 500

- Have at least three years work experience

- At least 10 points from at least two of the three categories - prior work experience, academic achievement and management aptitude

- For further information, please see the table at:
http://www.bus.qut.edu.au/courses/postgraduate/mba/

Master of Information Technology (Games Design) (IT43)

Year offered: 2011
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

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.

Early exit options

Students should meet the following requirements before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
• Students wishing to complete their postgraduate studies

without a single area of specialisation must satisfy the unit requirements for graduation with no major.

• 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.

Further Information

For further information about this course, please contact:

Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT43 - MIT (Games Design)

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
INN381	Modelling and Animation Techniques
KIB202	Enabling Immersion
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

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education

INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

Master of Information Technology (Games Production) (IT43)

Year offered: 2011
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

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 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.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points

Further Information

For further information about this course, please contact:

Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT43 - MIT (Games Production)

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

INN321   Business Process Management

INN330   Information Management

INN311   Enterprise Systems

INN700   Introduction To Research

INN701   Advanced Research Topics

Select any four elective units from the list below:

GSN401   Managing in the Global Business Environment

GSN405   Strategic Management

GSN413   Financial Management 1

GSN415   Understanding Leadership

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

Master of Information Technology (Information Management) (IT43)

Year offered: 2011
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Discipline coordinator: Dr Helen Partridge
Campus: Gardens Point

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

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.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an

approved 96 credit points

Further Information

For further information about this course, please contact:

Ross Hayward or Helen Partridge
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT43 - MIT (Information Management)

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN122	Organisational Databases
INN220	Business Analysis
INN255	Security
INN330	Information Management
INN335	Information Resources

In addition, select 2 of the following units:	
INN334	Information Issues and Values
INN540	User Experience
INN700	Introduction To Research
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN701	Advanced Research Topics

Elective Units	
	Select any four Postgraduate Units

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2

INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

Master of Information Technology (Library and Information Science) (IT43)

Year offered: 2011
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February (and July for part-time only)
International Entry: February
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Discipline coordinator: Dr Helen Partridge
Campus: Gardens Point

Overview

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.

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.

Special entry requirements

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 point scale)

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

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 Faculty of Science and Technology.

Online delivery

The Library and Information Science major is offered in multimodal delivery allowing students to complete their studies either face-to-face or online.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points.

Further Information

For further information about this course, please contact:

Ross Hayward or Helen Partridge
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT43 - MIT (Library and Information Science)

Core	
INN500	PRINCE2 (R) Project Management
	OR
INN690	Minor Project 1

Select all of the following units:	
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
	Please note: Students who begin a multi-component unit set (eg. INN632) must complete the entire set.

Elective Units	
	Select any two Postgraduate units

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems

INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems

INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

Master of Information Technology (Network Management) (IT43)

Year offered: 2011
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

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, and also 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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

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.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points.

Further Information

For further information about this course, please contact:

Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT43 - MIT (Network Management)

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:	
INN255	Security
INN353	Wireless and Mobile Networks
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
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS453	CCNP 2: Implementing Secure Network Coverage
INS454	CCNP3: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks
INN701	Advanced Research Topics

Elective Units	
	Select any four Postgraduate Units

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems

INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

Master of Information Technology (Security) (IT43)

Year offered: 2011
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

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.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points.

Further Information

For further information about this course, please contact:

Ross Hayward
Phone: +61 7 3138 2782

Email: enquiry.scitech@qut.edu.au

IT43 - MIT (Security)

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
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
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

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services

INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

Master of Information Technology (Software Architecture) (IT43)

Year offered: 2011
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

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.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points.

Further Information

For further information about this course, please contact:

Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT43 - MIT (Software Architecture)

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN374	Enterprise Software Architecture
INN570	Internationalisation of Software

In addition, select 3 of the following units:	
INN271	The Web
INN313	Electronic Commerce Site Development
INN365	Systems Programming
INN370	Software Development
INN373	Web Application Development
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN700	Introduction To Research
INN701	Advanced Research Topics

Elective Units	
	Select any four Postgraduate Units

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1

INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

Master of Information Technology (Advanced) (IT44)

Year offered: 2011
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Discipline coordinator: Dr Yue Xu
Campus: Gardens Point

IT44 Null major option

Core

INN500	PRINCE2 (R) Project Management

Electives

*Any IT postgraduate units not in the "Basic Unit List", such that at least one unit is of the form: INN5XX, INN6XX or INN7SS and the total unit set equals 84 credit points

Plus

* any postgraduate units to 48 credit points

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.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3

INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

IT44 - Advanced Research/Project Units

Major Study Areas

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
INN692	Minor Project 3
INN693	Project

INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

Basic Unit List

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design

Master of Information Technology (Advanced) (IT44)

Year offered: 2011
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): Refer to majors
International Fees (indicative): Refer to majors
Domestic Entry: February and July
International Entry: February and July
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

Description

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 IT, 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 Science
• 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 Science major.

Electives:
Students can generally select up to 4 electives; again, the exception is in the Library and Information Science major, where students can select no more than two electives.

Non-cognate students 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 Faculty of Information Technology 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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Special Entry Requirements

Library and Information Science Major:

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).

Executive information practice major - has core units from the MBA and as such must also meet the MBA entry requirements:

- Demonstrate competency in the English language
- Have a GMAT score of at least 500
- Have at least three years work experience
- At least 10 points from at least two of the three categories
- prior work experience, academic achievement and management aptitude
- For further information please see Entry Requirements.

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 Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Dr Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT44 - Master of Information Technology (Advanced)

Core	
INN500	PRINCE2 (R) Project Management

Major Study Areas	
	Students choose one of the following majors (see Major option list):
	No Major (Information Technology)
	Software Architecture
	Network Management
	Enterprise Systems
	Games Production
	Games Design
	Security
	Executive Information Practice
	Library and Information Science
	Information Management
	Digital Environments

Special Entry Requirements	
	Library and Information Science:
	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).
	Executive information practice:
	Has core units from the MBA and as such must also meet the MBA entry requirements:

- Demonstrate competency in the English language

- Have a GMAT score of at least 500

- Have at least three years work experience

- At least 10 points from at least two of the three categories - prior work experience, academic achievement and management aptitude

- For further information, please see http://www.bus.qut.edu.au/courses/postgraduate/mba/mba.jsp?major-id=13815&major-tab=details.

Master of Information Technology (Advanced) (Digital Environments) (IT44)

Year offered: 2011
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Discipline coordinator: Dr Jason Watson
Campus: Gardens Point

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

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 Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Jason Watson
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT44 - MIT (Advanced) (Digital Environments)

Core	
INN500	PRINCE2 (R) Project Management

Select all of the following units:

INN345	Mobile Devices
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.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1

INN691	Minor Project 2		INN221	Technology Management
INN692	Minor Project 3		INN251	Networks
INN693	Project		INN255	Security
INN694-1	Project 1		INN270	Programming
INN694-2	Project		INN271	The Web
INN695	Major Project		INN272	Interaction Design
INN696-1	Major Project 1			
INN700	Introduction To Research			
INN696-2	Major Project 2			
INN701	Advanced Research Topics			
INN281	Advanced Game Design			
INS040	Professional Experience (Postgraduate)			
INS450	CCNA 1 and 2 Network Fundamentals and Routing			
INS451	CCNA 3 and 4 Lan Switching			
INS452	CCNP1: Building Scalable Internetworks			
INS454	CCNP3: Building Multi Layered Switched Networks			
INS456	Voice Over IP 1			
INS457	CISCO VOIP			

IT44 - Advanced Research/Project Units

Major Study Areas

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
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

Basic Unit List

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN210	Databases
INN220	Business Analysis

Master of Information Technology (Advanced) (Enterprise Systems) (IT44)

Year offered: 2011
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

Overview

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.

The major provides you with advanced knowledge that will enable you to specialise in the 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.

Why study this Major?

Enterprise systems have been widely implemented worldwide, particularly in larger organisations. The enterprise system market exceeds US$78 billion and it has been one of the largest, fastest growing application software industries in the world. Organisations invest substantial resources in acquiring enterprise systems from vendors such as SAP, Mincom and Oracle, and expect positive impacts on their business operations. Thus, there is a need for graduates with strong knowledge of enterprise systems software and effective management of its implementation.

Career Progression

Careers include business analyst, systems analyst, systems manager or database manager.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

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 Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information on this course please contact:

Dr Ross Hayward
Phone: 3138 2782
Email: enquiry.scitech@qut.edu.au.

IT44 - MIT (Advanced) (Enterprise Systems)

Core	
INN500	PRINCE2 (R) Project Management

Select Three Units from:	
INN311	Enterprise Systems

INN312	Enterprise Systems Applications	

In addition, choose between the following:

INN610	Case Studies in Business Process Management
	OR
INN690	Minor Project 1
	OR
	Advanced Reading Enterprise System unit

In addition, select four of the following units:

INN220	Business Analysis
INN320	Business Process Modelling
INN321	Business Process Management
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN700	Introduction To Research
INN610	Case Studies in Business Process Management
INN374	Enterprise Software Architecture
INN701	Advanced Research Topics

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.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks

INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software

INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

IT44 - Advanced Research/Project Units

Major Study Areas

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

Master of Information Technology (Advanced) (Executive Information Practice) (IT44)

Year offered: 2011
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2011: Full fee tuition $10,000 (indicative) per semester
International Fees (indicative): 2011: $13,750 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

Overview

This major is where the MBA meets IT: Master of Business Administration units are incorporated into this course. It 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 mid-career professionals to further develop and refine their information and IT skills and knowledge while also having the opportunity to acquire a working knowledge of management practice.

Core units are offered by the areas of IT and business. You are able to study units in marketing, international business, accounting, public administration and evidence-based practice along with information security, systems and network, information management, interaction design, data mining and library and information science.

Those interested in pursuing a Master of Business Administration at QUT are eligible for advanced standing towards the qualification, making it an excellent pathway to QUT's Master of Business Administration (MBA).

Why study this Major?

Australia needs information and IT leaders who will help shape the future of our nation's information-rich and technology-driven economy.

Graduates of this course will possess a comprehensive working knowledge of contemporary management issues, advanced-level information and IT skills and the communication and leadership abilities essential for the executive or management role.

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Special entry requirements

Executive information practice major - has core units from the MBA and as such must also meet the MBA entry requirements:

- Demonstrate competency in the English language
- Have a GMAT score of at least 500
- Have at least three years work experience
- At least 10 points from at least two of the three categories
- prior work experience, academic achievement and management aptitude
- For further information please see www.bus.qut.edu.au.

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 Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after

successful completion of an approved 144 credit points.

Further information

For further information about this course, please contact:

Dr Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT44 - MIT (Advanced) (Executive Information Practice)

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN630	Evidence Based Practice
INN631	Executive Coaching
	In addition, select any postgraduate (24 credit point) IT units not in the Basic Unit List.

In addition, select 6 (total of 36cps) of the following units:	
INN700	Introduction To Research
GSN401	Managing in the Global Business Environment
GSN403	Understanding Data
GSN404	Financial Statements Analysis
GSN405	Strategic Management
GSN406	Human Resource Management Issues
GSN407	Business Communication
GSN408	Fundamentals of Marketing Management
GSN409	Organisational Behaviour 1
GSN410	Entrepreneurship
GSN412	Business Law 1
GSN413	Financial Management 1
GSN415	Understanding Leadership
GSN491	Economics in Business 1

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2

INN602	Advanced Readings 3		INN255	Security
INN605	Advanced Research 1		INN270	Programming
INN606	Advanced Research 2		INN271	The Web
INN607	Advanced Research 3		INN272	Interaction Design
INN610	Case Studies in Business Process Management			
INN632-1	Professional Practice			
INN632-2	Professional Practice			
INN632-3	Professional Practice			
INN632-4	Professional Practice			
INN632-5	Professional Practice			
INN632-6	Professional Practice			
INN650	Advanced Network Management			
INN651	Security Technologies			
INN652	Advanced Cryptology			
INN690	Minor Project 1			
INN691	Minor Project 2			
INN692	Minor Project 3			
INN693	Project			
INN694-1	Project 1			
INN694-2	Project			
INN695	Major Project			
INN696-1	Major Project 1			
INN700	Introduction To Research			
INN696-2	Major Project 2			
INN701	Advanced Research Topics			
INN281	Advanced Game Design			
INS040	Professional Experience (Postgraduate)			
INS450	CCNA 1 and 2 Network Fundamentals and Routing			
INS451	CCNA 3 and 4 Lan Switching			
INS452	CCNP1: Building Scalable Internetworks			
INS454	CCNP3: Building Multi Layered Switched Networks			
INS456	Voice Over IP 1			
INS457	CISCO VOIP			

Basic Unit List

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN251	Networks

Master of Information Technology (Advanced) (Games Design) (IT44)

Year offered: 2011
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

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 Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Dr Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT44 - MIT (Advanced) (Games Design)

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.

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.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting

INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice

INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

IT44 - Advanced Research/Project Units

Major Study Areas

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
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

Master of Information Technology (Advanced) (Games Production) (IT44)

Year offered: 2011
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

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 Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Dr Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT44 - MIT (Advanced) (Games Production)

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 Management
INN330	Information Management
INN700	Introduction To Research

INN701   Advanced Research Topics

Select any four elective units from the list below:

GSN401   Managing in the Global Business Environment

GSN405   Strategic Management

GSN413   Financial Management 1

GSN415   Understanding Leadership

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.

IT44 - Advanced Research/Project Units

Major Study Areas

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

INN692   Minor Project 3

INN693   Project

INN694-1   Project 1

INN694-2   Project

INN695   Major Project

INN696-1   Major Project 1

INN696-2   Major Project 2

Master of Information Technology (Advanced) (Information Management) (IT44)

Year offered: 2011
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

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 Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Dr Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT44 - MIT (Advanced) (Information Management)

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN122	Organisational Databases

INN220	Business Analysis
INN255	Security
INN330	Information Management
INN335	Information Resources

In addition, select 2 of the following units:

INN334	Information Issues and Values
INN540	User Experience
INN700	Introduction To Research
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN701	Advanced Research Topics

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.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting

INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice

INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

IT44 - Advanced Research/Project Units

Major Study Areas

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
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

Master of Information Technology (Advanced) (Library and Information Science) (IT44)

Year offered: 2011
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Discipline coordinator: Dr Helen Partridge
Campus: Gardens Point

Overview

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.

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Special Entry requirements

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).

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 Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Ross Hayward or Helen Partridge
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT44 - MIT (Advanced) (Library and Information Science)

Core

INN500	PRINCE2 (R) Project Management
	OR
INN690	Minor Project 1

Select all of the following units:

INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice

Students who begin a multi-component unit set (eg. INN632), must complete the entire set.

Elective Units

Select any two Postgraduate Units.

Advanced Research Units (Project units)

Students of IT44 are required to complete 48cp of advanced research/project units in the form of a 48cp Dissertation or two 24cp Projects.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3

INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

IT44 - Advanced Research/Project Units

Major Study Areas

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
INN692	Minor Project 3
INN693	Project

Master of Information Technology (Advanced) (Network Management) (IT44)

Year offered: 2011
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

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 Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Dr Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT44 - MIT (Advanced) (Network Management)

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:

INN255	Security
INN353	Wireless and Mobile Networks
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
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks
INN701	Advanced Research Topics

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.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming

INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2

INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

IT44 - Advanced Research/Project Units

Major Study Areas

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
INN692	Minor Project 3

Master of Information Technology (Advanced) (Security) (IT44)

Year offered: 2011
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR

• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

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 Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Dr Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT44 - MIT (Advanced) (Security)

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
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
MAN778	Applications of Discrete Mathematics
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.

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.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design

INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1

INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

IT44 - Advanced Research/Project Units

Major Study Areas

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
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1

Master of Information Technology (Advanced) (Software Architecture) (IT44)

Year offered: 2011
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Campus: Gardens Point

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.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

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 Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Dr Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT44 - MIT (Advanced) (Software Architecture)

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN371	Data Structures and Algorithms

INN372	Agile Software Development
INN374	Enterprise Software Architecture
INN570	Internationalisation of Software

In addition, select 3 of the following units:

INN271	The Web
INN313	Electronic Commerce Site Development
INN365	Systems Programming
INN370	Software Development
INN373	Web Application Development
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN700	Introduction To Research
INN701	Advanced Research Topics

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.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling

INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice

INN632-2   Professional Practice

INN632-3   Professional Practice

INN632-4   Professional Practice

INN632-5   Professional Practice

INN632-6   Professional Practice

INN650   Advanced Network Management

INN651   Security Technologies

INN652   Advanced Cryptology

INN690   Minor Project 1

INN691   Minor Project 2

INN692   Minor Project 3

INN693   Project

INN694-1   Project 1

INN694-2   Project

INN695   Major Project

INN696-1   Major Project 1

INN700   Introduction To Research

INN696-2   Major Project 2

INN701   Advanced Research Topics

INN281   Advanced Game Design

INS040   Professional Experience (Postgraduate)

INS450   CCNA 1 and 2 Network Fundamentals and Routing

INS451   CCNA 3 and 4 Lan Switching

INS452   CCNP1: Building Scalable Internetworks

INS454   CCNP3: Building Multi Layered Switched Networks

INS456   Voice Over IP 1

INS457   CISCO VOIP

IT44 - Advanced Research/Project Units

Major Study Areas	
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
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

Master of Information Technology (Non-IT Graduates) (IT45)

Year offered: 2011
Admissions: No
CRICOS code: 003776E
Course duration (full-time): 3 semesters
Course duration (part-time): 6 semesters
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Total credit points: 144
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

Potential Careers:

Business Analyst, Data Communications Specialist, Database Manager, Electronic Commerce Developer, Internet Professional, Network Administrator, Network Manager, Programmer, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer.

Master of Information Technology (Advanced) (IT48)

Year offered: 2011
Admissions: No
CRICOS code: 053123F
Course duration (full-time): 2 years (4 semesters)
Course duration (part-time): 4 years (8 semesters)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,000 (indicative) per semester
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

IT48 Master of Inforamtion Technology (Advanced)

Requirements - 16 units (192 credit points), consisting of:

INN500	PRINCE2 (R) Project Management
	Minimum 7 x Advanced Level 1 Units (including INN500)
	Minimum 1 x Advanced Level 2 Units
	Maximum 3 x Postgraduate level Elective Units selected from outside the Faculty, in consultation with the Course Coordinator

IT35/40/48 v1Master of Information Technology (IT Graduates)

Course Structure 2009

From semester one, 2009 this course will not be available for commencing students. IT35 will only be available for continuing students. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Compulsory Unit*

INN500	PRINCE2 (R) Project Management
	Only for students who commenced Semester 2, 2006 or later

Advanced Level 1 Units

INN272	Interaction Design
INN280	Fundamentals of Game Design
INN281	Advanced Game Design
INN313	Electronic Commerce Site Development
INN312	Enterprise Systems Applications
INN321	Business Process Management
INN322	Information Systems Consulting
INN342	Enterprise Data Mining and Data Analysis
INN385	Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN371	Data Structures and Algorithms
INN365	Systems Programming
INN370	Software Development
INS452	CCNP1: Building Scalable Internetworks
INN352	Network Planning
INN373	Web Application Development
INS454	CCNP3: Building Multi Layered Switched Networks
INN353	Wireless and Mobile Networks
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INS455	CCNP4: Optimising Converged Networks
INN181	Introduction to Games Production
INS456	Voice Over IP 1
INS453	CCNP 2: Building Multi Layered Switched Networks
INS457	Voice Over IP 2
	Project - 12 and 24 credit points (See Project Units for codes)

Advanced Level 2 Units

INN700	Introduction To Research
INN610	Case Studies in Business Process Management
INN386	Advanced Multimedia Systems
INN382	Real Time Rendering Techniques
INN652	Advanced Cryptology
INN570	Internationalisation of Software
INN650	Advanced Network Management
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN701	Advanced Research Topics

Project Units

INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2

Intermediate Level Units

With the approval of the Course Coordinator, students seeking skills in a new IT specialisation can select up to two (2) units from the following list of units.

INN271	The Web
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INN341	Software Development With Oracle
INN311	Enterprise Systems
INN340	Database Design
INN330	Information Management
INN335	Information Resources
INN372	Agile Software Development
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN255	Security
INN355	Cryptology and Protocols
INN370	Software Development

Master of Business Process Management (IT53)

Year offered: 2011
Admissions: Yes
CRICOS code: 062622A
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2011: Full fee tuition $7,875 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February, July
International Entry: February, July
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Wasana Bandara
Campus: Gardens Point

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.

Entry Requirements

A bachelor degree with a grade point average of at least 4.5 (on a 7-point scale) **AND** demonstrated competence in the basic skills and concepts of personal or office computer usage.

Course Structure

Students may be eligible to receive a Graduate Certificate in Business Process Management after completing 48 credit points (4 units) consisting of the four specified units.

Students may also be eligible to receive a Graduate Certificate in Corporate Systems Management after completing 48 credit points (4 units) consisting of the four specified units.

Unit Incompatibility/Translation Information

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

Further Information

For further information about this course, please contact:

Dr Wasana Bandara
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Master of Business Process Management (2010 & 2011)

Non-IT graduates Basic Units 4 only	
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

IT graduates Gateway Units 4 only	
INN700	Introduction To Research
INN311	Enterprise Systems
INN340	Database Design
INN312	Enterprise Systems Applications
INN221	Technology Management
INN322	Information Systems Consulting
INN330	Information Management
INN500	PRINCE2 (R) Project Management

Block B Core Units 4 Minimum	
INN323	Smart Services
INN610	Case Studies in Business Process Management
INN331	Management Issues for Information Professionals
INN321	Business Process Management
INN320	Business Process Modelling
INN690	Minor Project 1

Block C Elective Units 24cp Minimum	
	12 cp FIT industry or research project
	24 cp FIT industry or research project
	48 cp FIT industry or research project
	12 cp QUT post-graduate elective units

Grad Cert Business Process Management IT61 exit point only	
INN311	Enterprise Systems
INN610	Case Studies in Business Process Management
INN321	Business Process Management
INN320	Business Process Modelling

Grad Cert Corporate Systems Management IT62 exit point only

INN331	Management Issues for Information Professionals
INN690	Minor Project 1
AND	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

Master of Business Process Management (2009)

IT graduates Gateway Units 4 only

INN700	Introduction To Research
INN311	Enterprise Systems
INN340	Database Design
INN312	Enterprise Systems Applications
INN221	Technology Management
INN322	Information Systems Consulting
INN330	Information Management
INN500	IT Project Management

Non-IT graduates Basic Units 4 only

INN120	Corporate Systems
INN101	Impact of IT
INN122	Organisational Databases
INN123	Project Management Practice
INN124	Information Systems Development
INN220	Business Analysis
INN221	Technology Management

Block B Core Units 4 Minimum

INN323	Smart Services
INN610	Case Studies in Enterprise Systems
INN331	Management Issues for Information Professionals
INN321	Business Process Management
INN320	Business Process Modelling
	Project Unit (Unit code yet to be finalised)

Block C Elective Units 24cp Minimum

	12 cp FIT industry or research project
	24 cp FIT industry or research project
	48 cp FIT industry or research project
	12 cp QUT post-graduate elective units

Grad Cert Business Process Management IT61 exit point

only

INN311	Enterprise Systems
INN610	Case Studies in Enterprise Systems
INN321	Business Process Management
INN320	Business Process Modelling

Grad Cert Corporate Systems Management IT62 exit point only

INN331	Management Issues for Information Professionals
	Project Unit (Unit code yet to be finalised)
AND	Students must choose 2 of the following units:
INN120	Corporate Systems
INN101	Impact of IT
INN122	Organisational Databases
INN123	Project Management Practice
INN124	Information Systems Development
INN220	Business Analysis
INN221	Technology Management

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs

INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies

INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

Master of Information Technology (Research) (IT60)

Year offered: 2011
Admissions: Yes
CRICOS code: 020309B
Course duration (full-time): 1.5 years or 3 semesters
Course duration (part-time): 3 years or 6 semesters
Domestic fees (indicative): Aust citizens or PRs will be awarded an RTS/RTA place or a QUT sponsorship for tuition fees. If you exceed the max time, you will be charged - 2011: $9,750 per semester (indicative)
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: At any time
International Entry: At any time
Total credit points: 144
Course coordinator: Associate Professor Terry Walsh
Campus: Gardens Point

Course Overview

The Master of Information Technology (Research) provides specialist education in information technology through a program that involves either an original contribution to knowledge or an original application of existing knowledge.

Students choose a research topic from recognised areas of research concentration within the Faculty. Research can be carried out in a research centre of the Faculty, in the student's place of employment or in a sponsoring institution.

Entry Requirements

To be eligible for this course, applicants must have:

- an approved degree in information technology from a recognised tertiary institution or an equivalent qualification, with a grade point average of 5 (on a 7-point scale), **or**
- an approved degree from a recognised tertiary institution plus evidence of professional experience and skills to satisfy the Academic Board that the applicant possesses the capacity to pursue the course of study. The evidence should include details of any project or research activities undertaken.

  In addition to assessing qualifications, the Faculty must also be satisfied that adequate supervision and resources are available to support the applicant's proposed research.

Research Areas

Areas of research interest and contact details can be obtained from the Faculty website

Course Structure

Students entering the degree with second-class honours division A (or better) in an IT-related course will often complete the degree in one year full-time. The length of the program is generally expected to be 18 months full-time (including six months of provisional registration) or three years part-time (including one year of provisional registration).

Assessment for this research masters is based on a program of supervised research and investigation, culminating in a thesis.

Programs may include some coursework in support of the conduct of research and preparation of a thesis. Candidates are required to have regular, face-to-face interaction with supervisors and to participate in University scholarly activities such as research seminars, teaching and publication.

Further Information

For further information about this course, please contact:

Terry Walsh
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

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)

Potential Careers:

Business Analyst, Computer Games Developer, Data Communications Specialist, Database Manager, Electronic Commerce Developer, Internet Professional, Network Administrator, Network Manager, Programmer, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer.

Master of Information Management(refer to IT43) (IT70)

Year offered: 2011
Admissions: No
CRICOS code: 053705F
Course duration (full-time): 3 semesters
Course duration (part-time): 6 semesters
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 144
Course coordinator: Dr Helen Partridge
Campus: Gardens Point

Course is under review

From semester one, 2009 this course will not be available for commencing students. IT70 will only be available for continuing students. New students - please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Course Overview

This program provides graduates with the skills to find employment in a broad spectrum of information work in public, academic and special libraries and within corporate and government information management contexts. Students will come to understand and manage the complexities of information which impact on society.

Entry Requirements

To be eligible for this course, students must have demonstrated competence in the basic skills and concepts of personal or office computer usage and must meet one of the following criteria:
• a bachelor degree in a discipline other than library or information studies with a grade point average of at least 4.5 (on a 7-point scale) **OR**
• evidence of recognised prior learning (e.g. at least five years of relevant full-time work experience).

Course Structure

With the availability of a nested graduate diploma, students in the Master of Information Management may be eligible to receive a Graduate Diploma in Information Management (IT72), after completing 96 credit points (8 units), consisting of eight specified units in a concentrated area of study.

Professional Recognition

The Master of Information Management is professionally recognised by the Australian Library and Information Association (ALIA).

Unit Incompatibility/Translation Information

Details on the translation and incompatibility of old and new units is located here:

Postgraduate Translation Table
If you have completed the unit(s) listed under the "Translation Unit Codes" column you are not permitted to enrol in the listed new code

Further Information

For further information about this course, please contact:

Dr Helen Partridge
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT70 - Master of Information Management - Full-time (2009)

Course Structure 2009	
	From semester one, 2009 this course will not be available for commencing students. IT70 will only be available for continuing students. New students - please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Year 1, Semester 1	
INN331	Management Issues for Information Professionals
INN333	Information Programs
INN335	Information Resources
INN632-1	Professional Practice
INN632-2	Professional Practice

Year 1, Semester 2	
INN533	Information Organisation
INN531	Information Services
INN330	Information Management
INN632-3	Professional Practice
INN632-4	Professional Practice

Year 2, Semester 1	
INN530	Web Content Reliability
INN532	Information Literacy Education
INN500	PRINCE2 (R) Project Management
INN632-5	Professional Practice
INN632-6	Professional Practice

IT70 - Master of Information Management - Part-time (2009)

Course Structure 2009	
	From semester one, 2009 this course will not be available for commencing students. IT70 will only be available for continuing students. New students - please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Year 1, Semester 1	
INN335	Information Resources

| INN122 | Organisational Databases |
| INN632-1 | Professional Practice |

Year 1, Semester 2

INN330	Information Management
INN533	Information Organisation
INN632-2	Professional Practice

Year 2, Semester 1

INN331	Management Issues for Information Professionals
INN333	Information Programs
INN632-3	Professional Practice

Year 2, Semester 2

INN531	Information Services
	Elective
INN632-4	Professional Practice

Year 3, Semester 1

INN530	Web Content Reliability
INN532	Information Literacy Education
INN632-5	Professional Practice

Year 3, Semester 2

INN690	Minor Project 1
	Students who choose to undertake ITS010 Cooperative Education Program substitute ITN370 for this unit
INN632-6	Professional Practice

IT70 - Master of Information Management - Full-time (2008)

From semester one, 2009 this course will not be available for commencing students. IT70 will only be available for continuing students. New students - please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Year 1, Semester 1

ITN316	Digital Library Systems
ITN274	Management Issues for Info Professionals
ITN362	Organisational Databases
ITN322	Information Resources
ITN280-1	Professional Practice
ITN280-2	Professional Practice

Year 1, Semester 2

ITN275	Information Organisation
ITN276	Information Services
ITN266	Information Management
ITN319	Records Systems
ITN280-3	Professional Practice

| ITN280-4 | Professional Practice |

Year 2, Semester 1

ITN278	Web Content Reliability
ITN279	Information Literacy Education
ITN370	Project
	Students who choose to undertake ITS010 Cooperative Education Program substitute for ITN370.
ITN280-5	Professional Practice
ITN280-6	Professional Practice

IT70 - Master of Information Management - Part-time (2008)

From semester one, 2009 this course will not be available for commencing students. IT70 will only be available for continuing students. New students - please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Year 1, Semester 1

ITN322	Information Resources
ITN362	Organisational Databases
ITN280-1	Professional Practice

Year 1, Semester 2

ITN266	Information Management
ITN275	Information Organisation
ITN280-2	Professional Practice

Year 2, Semester 1

ITN274	Management Issues for Info Professionals
ITN316	Digital Library Systems
ITN280-3	Professional Practice

Year 2, Semester 2

ITN276	Information Services
ITN319	Records Systems
ITN280-4	Professional Practice

Year 3, Semester 1

ITN278	Web Content Reliability
ITN279	Information Literacy Education
ITN280-5	Professional Practice

Year 3, Semester 2

ITN370	Project
	Students who choose to undertake ITS010 Cooperative Education Program substitute ITN370 for this unit
ITN280-6	Professional Practice

Potential Careers:

Administrator, Information Officer, Librarian.

Doctor of Information Technology (IT80)

Year offered: 2011
Admissions: No
CRICOS code: 063035A
Course duration (full-time): 3 years
Course duration (part-time): 6 years
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
International Entry: February and July
Course coordinator: Associate Professor Shlomo Geva
Campus: Gardens Point

Course Overview

The Doctor of Information Technology is a professional doctorate designed for candidates to contribute towards professional practice and is appropriate for those wishing to pursue a problem within their workplace expertise. The focal problem in the professional doctorate is an application of theory to an existing significant industry problem.

Entry Requirements

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, or
• a masters degree, or
• a three-year bachelor degree and industry experience, or
• an equivalent combination of experience and/or education and training.

Students with exemplary professional practice 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.

Course Structure

The degree consists of 288 credit points of which up to 96 credit points are coursework, and the balance is research. Students are expected to develop a high level of research skill and analysis and make an original contribution to knowledge and professional practice. The Doctor of Information Technology will provide focused research and coursework studies in the IT's research areas.

Research Area

Areas of research interest and contact details can be obtained from the Faculty website.

Further Information

For further information about this course, please contact:

Associate Professor Shlomo Geva
Visit www.scitech.qut.edu.au
Email research.scitech@qut.edu.au
Phone +61 7 3138 1000

IT81 - course structure - 2011

Notes

This is an indicative course structure only. Students should discuss their program with the Course Coordinator.

Year 1, Semester 1

INNXXX	PG coursework elective unit
INNXXX	PG coursework elective unit
INNXXX	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

INN701	Advanced Research Topics

A literature review of the related theory.

INN691	Minor Project 2

A literature review of the relevant reseach methods and approaches that may be of use.

INN692	Minor Project 3

A pilot study of the selected theory and method to a subset of the problem in order to test the efficacy of the methods and theories selected.

INN700	Introduction To Research

Students construct an integrated research proposal.

Year 2 to Year 3

Computer Science

IFT821	Thesis

Information Systems

IFT822	Thesis

IT81 - course structure with two 96 cps thesis

Notes

This is an indicative course structure only. Students should discuss their program with the Course Coordinator.

Year 1, Semester 1

INNXXX	PG coursework elective unit
INNXXX	PG coursework elective unit
INNXXX	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

INN701   Advanced Research Topics

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.

INN692   Minor Project 3

A pilot study of the selected theory and method to a subset of the problem in order to test the efficacy of the methods and theories selected.

INN700   Introduction To Research

Student constructs an integrated research proposal.

Year 2 to Year 3

Computer Science

IFT821   Thesis

Information Systems

IFT822   Thesis

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management

INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management
INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

Doctor of Information Technology (IT81)

Year offered: 2011
Admissions: Yes
CRICOS code: 063035A
Course duration (full-time): 2-3 years
Course duration (part-time): 4-6 years
Domestic fees (indicative): Aust citizens or PRs will be awarded an RTS/RTA place or a QUT sponsorship for tuition fees. If you exceed the max time, you will be charged - 2011: $7,375 per semester (indicative)
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February, July and November
International Entry: February, July and November
Total credit points: 288
Course coordinator: Aspro Terry Walsh
Discipline coordinator: Dr Richi Nayak
Campus: Gardens Point

Course Overview

The Doctor of Information Technology is a professional doctorate designed for candidates to contribute towards professional practice and is appropriate for those wishing to pursue a problem within their workplace expertise. The focal problem in the professional doctorate is an application of theory to an existing significant industry problem.

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.

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:

Dr Richi Nayak
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT81 - course structure - 2011

Notes	
	This is an indicative course structure only. Students should discuss their program with the Course Coordinator.

Year 1, Semester 1

INNXXX	PG coursework elective unit
INNXXX	PG coursework elective unit
INNXXX	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

INN701	Advanced Research Topics
	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.
INN692	Minor Project 3
	A pilot study of the selected theory and method to a subset of the problem in order to test the efficacy of the methods and theories selected.
INN700	Introduction To Research
	Students construct an integrated research proposal.

Year 2 to Year 3

Computer Science

IFT821	Thesis

Information Systems

IFT822	Thesis

Postgraduate IT Units

Unit List:

INN101	Impact of IT

INN120	Corporate Systems	INN385	Multimedia Systems
INN122	Organisational Databases	INN386	Advanced Multimedia Systems
INN124	Information Systems Development	INN500	PRINCE2 (R) Project Management
INN180	Computer Games Studies	INN530	Web Content Reliability
INN181	Introduction to Games Production	INN531	Information Services
INN210	Databases	INN532	Information Literacy Education
INN220	Business Analysis	INN533	Information Organisation
INN221	Technology Management	INN540	User Experience
INN250	Foundations of Computer Science	INN550	Computer Forensics
INN251	Networks	INN570	Internationalisation of Software
INN255	Security	INN600	Advanced Readings 1
INN270	Programming	INN601	Advanced Readings 2
INN271	The Web	INN602	Advanced Readings 3
INN272	Interaction Design	INN605	Advanced Research 1
INN280	Fundamentals of Game Design	INN606	Advanced Research 2
INN311	Enterprise Systems	INN607	Advanced Research 3
INN312	Enterprise Systems Applications	INN610	Case Studies in Business Process Management
INN313	Electronic Commerce Site Development	INN632-1	Professional Practice
INN320	Business Process Modelling	INN632-2	Professional Practice
INN321	Business Process Management	INN632-3	Professional Practice
INN322	Information Systems Consulting	INN632-4	Professional Practice
INN330	Information Management	INN632-5	Professional Practice
INN331	Management Issues for Information Professionals	INN632-6	Professional Practice
INN332	Information Retrieval	INN650	Advanced Network Management
INN333	Information Programs	INN651	Security Technologies
INN335	Information Resources	INN652	Advanced Cryptology
INN340	Database Design	INN690	Minor Project 1
INN341	Software Development With Oracle	INN691	Minor Project 2
INN342	Enterprise Data Mining and Data Analysis	INN692	Minor Project 3
INN343	Advanced Data Mining and Data Warehousing	INN693	Project
INN344	Search Engine Technology	INN694-1	Project 1
INN345	Mobile Devices	INN694-2	Project
INN346	Enterprise 2.0	INN695	Major Project
INN347	Web 2.0 Applications	INN696-1	Major Project 1
INN350	Internet Protocols and Services	INN700	Introduction To Research
INN351	Unix Network Administration	INN696-2	Major Project 2
INN352	Network Planning	INN701	Advanced Research Topics
INN353	Wireless and Mobile Networks	INN281	Advanced Game Design
INN355	Cryptology and Protocols	INS040	Professional Experience (Postgraduate)
INN365	Systems Programming	INS450	CCNA 1 and 2 Network Fundamentals and Routing
INN370	Software Development	INS451	CCNA 3 and 4 Lan Switching
INN371	Data Structures and Algorithms	INS452	CCNP1: Building Scalable Internetworks
INN372	Agile Software Development	INS454	CCNP3: Building Multi Layered Switched Networks
INN373	Web Application Development	INS456	Voice Over IP 1
INN374	Enterprise Software Architecture	INS457	CISCO VOIP
INN381	Modelling and Animation Techniques		
INN382	Real Time Rendering Techniques		

Graduate Certificate in Information Technology (IT85)

Year offered: 2011
Admissions: Yes
Course duration (part-time): 1 year
Domestic fees (indicative): 2011: Full fee tuition $7,500 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February and July
Total credit points: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ross Hayward
Discipline coordinator: Dr Ross Hayward
Campus: Gardens Point

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 IT, 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
• Software Architecture
• Network Management
• Enterprise Systems
• Games Production
• Games Design
• Security
• Library and Information Science
• Information Management
• Digital Environments
• Executive Information Practice

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.

Special entry requirements

Executive Information Practice:
This major contains core units from MBA and as such must also meet the MBA entry requirements:
- Demonstrate competency in the English language
- Have a GMAT score of at least 500
- Have at least three years work experience

- At least 10 points from at least two of the three categories
- prior work experience, academic achievement and management aptitude
- For further information, please see the GSB website.

Entry Requirements

To be eligible for this program, students must meet one of the following criteria:

• the Australian equivalent of a Bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
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.

Course Structure

Students are required to complete 48 credit points of units. Please refer to the course structures for information on specific unit requirements for each major. This course may be taken over two semesters part-time. However if the timetable permits a student may complete this course full time in one semester.

Course completion rules

Students should meet the following requirements before they are able to complete the Graduate Certificate program:
• Students are required to complete 48 credit points of units.
• Students must complete the specific unit requirements for a graduate certificate in a major.

Students undertaking units from the MBA program (GSN units) in the Graduate School of Business (GSB) must meet the MBA entry requirements. Please see the GSB website for further information.

Further Information

For further information about this course, please contact:

Dr Ross Hayward
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT85 - Graduate Certificate In Information Technology

Major Study Areas
Students choose one of the following majors (see Major option list):
No Major
Software Architecture
Network Management
Enterprise Systems
Games Production
Games Design
Security

Executive Information Practice

Library and Information Science

Information Management

Digital Environments

IT85 - Major Options

No Major

INNXXX	*Any IT postgraduate units to the total of 48 credit points

Software Architecture

	Any four units from:
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN374	Enterprise Software Architecture
INN570	Internationalisation of Software
INN500	PRINCE2 (R) Project Management
INN370	Software Development

Network Management

	Any four units from:
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN650	Advanced Network Management
INN500	PRINCE2 (R) Project Management

Enterprise Systems

	Any 4 units from:
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN374	Enterprise Software Architecture
INN610	Case Studies in Business Process Management
INN500	PRINCE2 (R) Project Management

Games Production

INN180	Computer Games Studies
INN181	Introduction to Games Production
PLUS	Any 2 units from:
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN500	PRINCE2 (R) Project Management
INN220	Business Analysis
INN321	Business Process Management

Games Design

INN180	Computer Games Studies
INN280	Fundamentals of Game Design
INN272	Interaction Design

PLUS	Any 1 unit from:
INN500	PRINCE2 (R) Project Management
INN281	Advanced Game Design
INN600	Advanced Readings 1
INN601	Advanced Readings 2
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INN282	Games Level Design

Security

INN255	Security
INN651	Security Technologies
PLUS	Any 2 units from:
INN700	Introduction To Research
INN355	Cryptology and Protocols
INN652	Advanced Cryptology
INN550	Computer Forensics
MGN524	Special Topic in Management 1
AYN410	Business Law and Ethics
MGN433	Managing High-Performance Organisations
MGN423	Contemporary Strategic Analysis
GSN440	Risk Management 1
JSN106	Analytical Methods of Intelligence
MAN778	Applications of Discrete Mathematics
LWN139	Privacy Law
LWN125	Electronic Commerce Law
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN694-1	Project 1
INN694-2	Project
INN696-1	Major Project 1
INN696-2	Major Project 2
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN693	Project
INN695	Major Project

Library and Information Science

INN690	Minor Project 1
PLUS	Any 3 units from:
INN332	Information Retrieval
INN531	Information Services
INN533	Information Organisation

INN333	Information Programs
INN530	Web Content Reliability
INN532	Information Literacy Education
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-6	Professional Practice
INN632-5	Professional Practice
INN330	Information Management
INN331	Management Issues for Information Professionals
INN271	The Web
INN700	Introduction To Research
INN342	Enterprise Data Mining and Data Analysis
INN540	User Experience
INN600	Advanced Readings 1
INN605	Advanced Research 1
CLN601	Cyberlearning
CLN603	Designing Spaces for Learning
CLN647	Youth, Popular Culture, and Texts
CLN650	Information-Learning Nexus
EDN611	Professional Applications of Research
KCP408	Exploring New Media Worlds
MDN642	Digital Pedagogies
INN345	Mobile Devices
INN500	PRINCE2 (R) Project Management
INN347	Web 2.0 Applications

Information Management

INN330	Information Management
INN335	Information Resources
INN530	Web Content Reliability
PLUS	Any 1 unit from:
INN122	Organisational Databases
INN255	Security
INN220	Business Analysis
INN334	Information Issues and Values
INN345	Mobile Devices
INN346	Enterprise 2.0
INN540	User Experience
INN347	Web 2.0 Applications

Executive Information Practice

INN630	Evidence Based Practice
INN631	Executive Coaching
PLUS	Any 2 units from:
GSN401	Managing in the Global Business Environment
GSN403	Understanding Data

GSN404	Financial Statements Analysis
GSN405	Strategic Management
GSN406	Human Resource Management Issues
GSN407	Business Communication
GSN408	Fundamentals of Marketing Management
GSN409	Organisational Behaviour 1
GSN410	Entrepreneurship
GSN412	Business Law 1
GSN413	Financial Management 1
GSN415	Understanding Leadership
GSN491	Economics in Business 1

Digital Environments

INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN500	PRINCE2 (R) Project Management
INN540	User Experience
KCP408	Exploring New Media Worlds

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN250	Foundations of Computer Science
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval

INN333	Information Programs
INN335	Information Resources
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN343	Advanced Data Mining and Data Warehousing
INN344	Search Engine Technology
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN365	Systems Programming
INN370	Software Development
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN550	Computer Forensics
INN570	Internationalisation of Software
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN610	Case Studies in Business Process Management
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN650	Advanced Network Management

INN651	Security Technologies
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN700	Introduction To Research
INN696-2	Major Project 2
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS456	Voice Over IP 1
INS457	CISCO VOIP

Graduate Certificate in Information Technology (Computer Networks) (IT90)

Year offered: 2011
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

IT90 Graduate Certificate in IT (Computer Networks)

4 Units to be completed	
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN353	Wireless and Mobile Networks
INN650	Advanced Network Management

Graduate Certificate in Information Technology (Information Security) (IT92)

Year offered: 2011
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Assumed knowledge: See entry requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

IT92 Grad Cert in Information Technology (Information Security)

Four (4) units to be completed	
INN690	Minor Project 1
INN255	Security
INN355	Cryptology and Protocols
INN652	Advanced Cryptology

Potential Careers:

Data Communications Specialist, Internet Professional, Network Administrator, Network Manager.

Graduate Certificate in Information Technology (Enterprise Wide Software) (IT93)

Year offered: 2011
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Domestic Entry: February and July
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

IT93 - Graduate Certificate in IT (Enterprise Wide Software)

Four (4) units to be completed	
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN610	Case Studies in Business Process Management
INN321	Business Process Management

Graduate Certificate in Information Technology (Electronic Commerce) (IT94)

Year offered: 2011
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Domestic Entry: February and July
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

IT94 - Graduate Certificate in IT (Electronic Commerce)

Four (4) units to be selected from the following

INN271	The Web
INN340	Database Design
INN313	Electronic Commerce Site Development
INN255	Security

Graduate Certificate in Information Technology (Project) (IT95)

Year offered: 2011
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Domestic Entry: February and July
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 48
Course coordinator: Dr Hamish Bentley
Campus: Gardens Point

IT95 - Graduate Certificate in IT (Project)

48 credit points to be completed either full time or part-time	
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2
	IT Elective

Potential Careers:

Data Communications Specialist, Internet Professional, Network Administrator, Network Manager, Programmer, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer.

Graduate Certificate in Information Technology (Information Technology Management) (IT96)

Year offered: 2011
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

IT96 - Graduate Certificate in IT (Information Technology Management)

Four (4) units to be completed	
INN221	Technology Management
INN322	Information Systems Consulting
INN330	Information Management
INN500	PRINCE2 (R) Project Management

Graduate Certificate in Information Technology (Generic) (IT97)

Year offered: 2011
Admissions: No
Course duration (full-time): 1 semester
Course duration (part-time): 2 semesters
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Domestic Entry: February and July
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point and External

IT97 is an exit option only

IT97 Graduate Certificate in IT	
ITN272	Information Technology Project Management
AND	Three of the following Basic units:
ITN200	Database Systems
ITN201	Enterprise Architectures
ITN701	Networks and Systems
OPTIONAL	One of the following Basic units:
ITN700	Programming Principles
ITB001	Problem Solving and Programming

Potential Careers:

Data Communications Specialist, Internet Professional, Network Administrator, Network Manager, Programmer, Software Engineer, Systems Analyst, Systems Manager.

Graduate Certificate in Information Technology (Multimedia) (IT98)

Year offered: 2011
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Domestic Entry: February and July
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

IT98 - Graduate Certificate in IT (Multimedia)

Four (4) units to be selected from the following	
INN271	The Web
INN272	Interaction Design
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems

Graduate Certificate in Information Technology (Component Software and Web Services) (IT99)

Year offered: 2011
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Domestic Entry: February and July
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 48
Course coordinator: Ernest Foo
Campus: Gardens Point

Course Overview

Please note: From 2009, this course is discontinued - please refer to IT85.

The Graduate Certificate in Information Technology consists of four designated units (48 credit points) which highlight career specialisations. The GCert IT (Component Software and Web Services) provides a firm basis for a career in web applications technology across a variety of platforms.

Entry Requirements

An approved Bachelor's degree in Information Technology from a recognised tertiary institution with a grade point average of at least 4.5 (7-point scale); OR provide other evidence of such qualifications (for example Recognised Prior Learning) and significant full-time IT work experience, as will satisfy the Dean of Faculty, that the applicant possesses the capacity to pursue the course of study.

Assumed skills: Programming skills at non-elementary level, including OO concepts, basic computer security, analysis skills (eg software engineering, systems analysis or enterprise modelling), relational database.

International students cannot gain direct entry to Graduate Certificates in IT as they are only currently available as part of a Masters program or an exit point.

International Student Entry

International students cannot gain direct entry into this program as it is offered on a part-time basis only.

Course Structure

Studets can directly enrol in the Master of IT (IT Graduates)(IT40) and gain credit for one or more graduate certicate awards while completing the program. They may also exit or graduate early from the course upon the successful completion of a graduate certificate (48 credit points) and/or a graduate diploma (96 credit points).

Further Information

For further information about this course, please contact:

Ernest Foo
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT99 - Graduate Certificate in IT (Component Software and Web Services)

Four (4) units to be completed	
INN372	Agile Software Development
INN370	Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture

Bachelor of Applied Science/Bachelor of Education (Secondary) (IX02)

Year offered: 2011
Admissions: Yes
CRICOS code: 020322E
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,721 (indicative) per semester
International Fees (indicative): 2011: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 409112
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 432
Standard credit points per full-time semester: 48 (semesters 1, 6-8), 60 (semesters 2-5)
Course coordinator: Dr Perry Hartfield (Science & Technology); Dr Mal Shield (Secondary). For science enquiries email: scitech.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); Dr Dennis Arnold (Chemistry Major); Dr Ian Williamson (Ecology Major); Dr Robin Thwaites (Environmental Science Major); Dr Gary Huftile (Geoscience Major); Prof Graeme Pettet (Mathematics Major); Dr Christine Knox (Microbiology Major); Dr Stephen Hughes (Physics Major)
Campus: Gardens Point and Kelvin Grove

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.

Career Outcomes

You will be equipped to work as a science professional or undertake research after graduation if you desire. The Bachelor of Education (Secondary) prepares you to teach in two curriculum areas in secondary schools. Teaching areas will depend on the major and teaching combinations chosen, but combinations should be appropriate for either science studies (general science) combined with biology, chemistry, earth science, physics, or mathematics.

The Bachelor of Education (Secondary) prepares you to teach in two curriculum areas in secondary school. The science majors that are most relevant to students intending to follow a career in secondary school teaching are chemistry, ecology, geoscience, mathematics or physics.

Professional Recognition

This course meets the requirements for registration as a teacher in Queensland. It is recognised nationally and internationally, however additional requirements may be needed for some locations.

Graduates will also satisfy the requirements for membership of the relevant professional body for their chosen science major. See Studyfinder for details on the Bachelor of Applied Science majors.

Other Course Requirements
Blue Card

Student teachers must be issued with a blue card prior to units having contact with children. For more information and an application form visitBlue Card.

Literacy

Students must meet the Queensland College of Teachers' literacy standards by the end of Year 3. For more information please visit Studyfinder.

Recommended Study

At least one of the sciences. For the majors in biochemistry, biotechnology and microbiology - Biological Science and Chemistry are recommended; for the major in physics - Maths C is recommended.

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.

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 on deferment.

Limits on grades of 3

A new policy concerning grades of 3 came into effect from 1 January 2009 (QUT MOPP C/5.2). With effect from this date, grades of 3 are no longer considered a conceded or low pass but are classified as a fail grade. Any grades of 3 awarded prior to 1 January 2009 retain the conceded pass status and will be counted for graduation purposes up to the maximum number of grades of 3 permitted for your course. Grades of 3 incurred in units that commence after 1 January 2009 will not count towards your degree. Further information is available on the Student Services website.

Further Information

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

Science & Technology Coordinator

Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au
Alternative phone contact: +61 7 3138 2782
Alternative email contact: enquiry.scitech@qut.edu.au

Education Coordinator
Dr Mal Shield
Phone: +61 7 3138 3323
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Faculty of Education Office
Phone: +61 7 3138 3948
Fax: +61 7 3138 3949
Email: jo.wakefield@qut.edu.au

Discipline Coordinators

Biochemistry Major (Cell and Molecular Biosciences Discipline)
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au
Alternative phone contact: +61 7 3138 2782
Alternative email contact: enquiry.scitech@qut.edu.au

Biotechnology Major (Cell and Molecular Biosciences Discipline)
Dr Marion Bateson
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Chemistry Major (Chemistry Discipline)
Dr Dennis Arnold
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Ecology Major (Biogeosciences Discipline)
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Environmental Science Major (Biogeosciences Discipline)
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Geoscience Major (Biogeosciences Discipline)
Dr Gary Huftile
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Mathematics Major (Mathematical Sciences Discipline)
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Microbiology Major (Cell and Molecular Biosciences Discipline)

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Physics Major (Physics Discipline)
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Course structure

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
EDB031	Secondary Field Studies 1
	Curriculum Studies 1X (See List 1)
	Science Major Unit
	Science Major Unit

Please note: The teaching prac component of EDB031 will be organised to commence as soon as schools return for Term 1 in January. Students will have to be available for four weeks prior to commencement of semester 1. This is to allieviate 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.

Year 2, Semester 2

MDB454	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 and EDB007)
	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)

Course structure - Major in Biochemistry

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
SCB222	Exploration of the Universe

Year 2, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 2, Semester 2

LQB481	Biochemical Pathways and Metabolism
LQB483	Molecular Biology Techniques
MDB454	Science, Technology and Society
LQB681	Biochemical Research Skills
	Science Elective (See list)

Year 3, Semester 1

LQB581	Functional Biochemistry
LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
	Science Elective (See list)

Course structure - Major in Biotechnology

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
SCB222	Exploration of the Universe

Year 2, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
	Science Elective (See list)
	Science Elective (See list)
MDB454	Science, Technology and Society

Year 3, Semester 1

LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Course structure - Major in Chemistry

Year 1, Semester 1

SCB110	Science Concepts and Global Systems

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

MAB120	Algebra and Calculus
SCB121	Chemistry 2
SCB123	Physical Science Applications
SCB131	Experimental Chemistry
SCB222	Exploration of the Universe

Year 2, Semester 1

| PQB312 | Analytical Chemistry For Scientists and Technologists |
| PQB331 | Structure and Bonding |

Year 2, Semester 2

PQB401	Reaction Kinetics, Thermodynamics and Mechanisms
PQB442	Chemical Spectroscopy
PQB631	Advanced Inorganic Chemistry
	Science Elective (See list)
MDB454	Science, Technology and Society

Year 3, Semester 1

PQB502	Advanced Physical Chemistry
PQB513	Instrumental Analysis
PQB531	Organic Mechanisms and Synthesis
	Science Elective (See list)

Course structure - Major in Ecology

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

NQB201	Planet Earth
NQB202	History of Life on Earth
NQB422	Genetics and Evolution
SCB120	Plant and Animal Physiology
SCB222	Exploration of the Universe

Year 2, Semester 1

| NQB321 | Ecology |
| NQB322 | Invertebrate Biology |

Year 2, Semester 2

MDB454	Science, Technology and Society
NQB421	Experimental Design
NQB622	Conservation Biology
	Plus either
SCB122	Cell and Molecular Biology
	Or
SCB123	Physical Science Applications
	Science Elective (See list)

Year 3, Semester 1

NQB502	Field Methods in Natural Resource Sciences
NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management
	Science Elective (See list)

Course structure - Major in Environmental Science

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

NQB201	Planet Earth
NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology
SCB123	Physical Science Applications
SCB222	Exploration of the Universe

Year 2, Semester 1

| NQB302 | Earth Surface Systems |
| NQB321 | Ecology |

Year 2, Semester 2

NQB403	Soils and the Environment
NQB421	Experimental Design
NQB601	Sustainable Environmental Management
	Science Elective (See list)
MDB454	Science, Technology and Society

Year 3, Semester 1

| NQB501 | Environmental Modelling |
| NQB502 | Field Methods in Natural Resource Sciences |

NQB503	Spatial Analysis of Environmental Systems
	Science Elective (See list)

Course structure - Major in Geoscience

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

NQB201	Planet Earth
NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology
SCB123	Physical Science Applications
SCB222	Exploration of the Universe

Year 2, Semester 1

NQB311	Mineralogy
NQB314	Sedimentary Geology

Year 2, Semester 2

NQB411	Petrology of Igneous and Metamorphic Rocks
NQB412	Structural Geology and Field Methods
NQB615	Geochemistry
	Science Elective (See list)
MDB454	Science, Technology and Society

Year 3, Semester 1

NQB502	Field Methods in Natural Resource Sciences
NQB503	Spatial Analysis of Environmental Systems
NQB513	Geophysics
	Science Elective (See list)

Course structure - Major in Mathematics (WITH Maths C from Senior)

WITH PHYSICS AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
MAB121	Calculus and Differential Equations
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 1, Semester 2

MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1

MAB220	Computational Mathematics 1
PQB250	Mechanics and Electromagnetism
SCB112	Cellular Basis of Life

Year 2, Semester 1

MAB311	Advanced Calculus
MAB315	Operations Research 2

Year 2, Semester 2

MAB625	Operations Research 3B
MDB454	Science, Technology and Society
PQB251	Waves and Optics
	Plus either
MAB414	Applied Statistics 2
	Or
MAB422	Mathematical Modelling
	Plus ONE unit from the following:
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

	Select THREE units from the following:
MAB521	Applied Mathematics 3
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB672	Advanced Mathematical Modelling
	Plus
PQB350	Thermodynamics of Solids and Gases

WITH GENERAL SCIENCE AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
MAB121	Calculus and Differential Equations
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 1, Semester 2

MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1
SCB112	Cellular Basis of Life
SCB222	Exploration of the Universe

Year 2, Semester 1

MAB311	Advanced Calculus

MAB315   Operations Research 2

Year 2, Semester 2

MAB625	Operations Research 3B
MDB454	Science, Technology and Society
	Science Elective (See list)
	Plus either
MAB414	Applied Statistics 2
	Or
MAB422	Mathematical Modelling
	Plus ONE unit from the following:
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

	Select THREE units from the following:
MAB521	Applied Mathematics 3
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB672	Advanced Mathematical Modelling
	Plus
	Science Elective (See list)

Course structure - Major in Mathematics (WITHOUT Maths C)

WITH PHYSICS AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 1, Semester 2

MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1
PQB250	Mechanics and Electromagnetism

Year 2, Semester 1

| MAB311 | Advanced Calculus |
| MAB315 | Operations Research 2 |

Year 2, Semester 2

| MAB625 | Operations Research 3B |

	Plus either
MAB414	Applied Statistics 2
	Or
MAB422	Mathematical Modelling
MDB454	Science, Technology and Society
PQB251	Waves and Optics
	Plus select ONE unit from the following:
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

	Select THREE units from the following:
MAB521	Applied Mathematics 3
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB672	Advanced Mathematical Modelling
	Plus
PQB350	Thermodynamics of Solids and Gases

WITH GENERAL SCIENCE AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 1, Semester 2

MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1
SCB222	Exploration of the Universe

Year 2, Semester 1

| MAB311 | Advanced Calculus |
| MAB315 | Operations Research 2 |

Year 2, Semester 2

MAB625	Operations Research 3B
	Plus either
MAB414	Applied Statistics 2
	Or
MAB422	Mathematical Modelling
MDB454	Science, Technology and Society

Science Elective (See list)

Plus select ONE unit from the following:

MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

Select THREE units from the following:

MAB521	Applied Mathematics 3
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB672	Advanced Mathematical Modelling
	Plus
	Science Elective (See list)

Course structure - Major in Microbiology

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
SCB222	Exploration of the Universe

Year 2, Semester 1

LQB381	Biochemistry: Structure and Function
LQB386	Microbial Structure and Function

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB486	Clinical Microbiology 1
LQB687	Applied Microbiology 2: Food and Quality Assurance
MDB454	Science, Technology and Society
	Science Elective (See list)

Year 3, Semester 1

LQB586	Clinical Microbiology 2
LQB587	Applied Microbiology 1: Water, Air and Soil

Either

LQB582	Biomedical Research Technologies
	Or
LQB583	Genetic Research Technology
	Science Elective (See list)

Course structure - Major in Physics (WITH Maths C from Senior)

WITH GENERAL SCIENCE AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB121	Calculus and Differential Equations
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

MAB122	Algebra and Analytic Geometry
MAB220	Computational Mathematics 1
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
SCB222	Exploration of the Universe

Year 2, Semester 1

MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 2, Semester 2

MDB454	Science, Technology and Society
PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation
PQB661	Lasers and Photonics
	Science Elective (see list)

Year 3, Semester 1

PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques
PQB651	Experimental Physics
	Science Elective (see list)

WITH MATHEMATICS AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB121	Calculus and Differential Equations
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

MAB122	Algebra and Analytic Geometry

MAB220	Computational Mathematics 1
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB210	Statistical Modelling 1

Year 2, Semester 1

MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 2, Semester 2

MDB454	Science, Technology and Society
PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation
PQB661	Lasers and Photonics
	Plus select ONE unit from the following:
MAB210	Statistical Modelling 1
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB422	Mathematical Modelling
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

MAB312	Linear Algebra
PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques
PQB651	Experimental Physics

Course structure - Major in Physics (WITHOUT Maths C from Senior)

WITH GENERAL SCIENCE AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
SCB222	Exploration of the Universe

Year 2, Semester 1

MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 2, Semester 2

MDB454	Science, Technology and Society
PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation
PQB661	Lasers and Photonics
	Science Elective (See list)

Year 3, Semester 1

PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques
PQB651	Experimental Physics
	Science Elective (See list)

WITH MATHEMATICS AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB220	Computational Mathematics 1
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics

Year 2, Semester 1

MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 2, Semester 2

MDB454	Science, Technology and Society
PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation
PQB661	Lasers and Photonics
	Plus select ONE unit from the following:
MAB210	Statistical Modelling 1
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB422	Mathematical Modelling
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques
PQB651	Experimental Physics
	Either

MAB101	Statistical Data Analysis 1
	Or
MAB210	Statistical Modelling 1

Second Teaching Area - General Science

SCB120	Plant and Animal Physiology
	Or
SCB222	Exploration of the Universe
	Plus
MDB454	Science, Technology and Society
	In addition, choose 2 units from the Science Electives List

Science Electives

Select TWO units that you have not already done from the following:

Semester 1 Units:

NQB302	Earth Surface Systems
NQB321	Ecology
NQB322	Invertebrate Biology
NQB323	Plant Biology
SCB121	Chemistry 2

Semester 2 Units:

NQB201	Planet Earth
NQB202	History of Life on Earth
NQB403	Soils and the Environment
NQB423	Vertebrate Biology
PQB250	Mechanics and Electromagnetism
SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

List 1: Curriculum Studies 1X & 1Y

Prerequisite for curriculum studies: normally a minimum of 24 credit points of relevant discipline.

Students undertaking a double Science major will undertake MDB031 as Curriculum Studies 1X, and an education elective as Curriculum Studies 1Y.

Students studying Maths or Physics as a major or minor will take MDB031 as Curriculum Studies 1X, and can take MDB021 as their Curriculum Studies 1Y unit.

MDB021	Mathematics Curriculum Studies 1
MDB031	Science Education Curriculum Studies 1
	See Education Electives list below for Curriculum Studies 1Y alternatives.

List 2: Curriculum Studies 2X & 2Y

Prerequisites: Curriculum Studies 1X & 1Y

MDB010	Biology Curriculum Studies 2
	(MDB010 is suitable for students studying Biochemistry, Biotechnology, Ecology, Environmental Science, Microbiology)
MDB013	Chemistry Curriculum Studies 2
	(MDB013 is suitable for students majoring in Biochemistry or Biotechnology – contains more emphasis on chemistry rather than biology)
MDB019	Earth Science Curriculum Studies 2
	(MDB019 is suitable for students majoring in Environmental Science or Geoscience – contains more emphasis on geology rather than biology)
MDB022	Mathematics Curriculum Studies 2
MDB025	Physics Curriculum Studies 2
MDB028	Science Curriculum Studies 2
	(MDB028 is suitable for students interested in teaching junior science)

List 3: Curriculum Studies 3X & 3Y

Prerequisites: Curriculum Studies 2X & 2Y.

Students undertaking a double Science major will undertake MDB033 as Curriculum Studies 3X, and an education elective as Curriculum Studies 3Y.

Students studying Maths or Physics as a major or minor will take MDB023 as Curriculum Studies 3X, and can take MDB033 as their Curriculum Studies 3Y unit.

MDB023	Mathematics Curriculum Studies 3
MDB033	Science Education Curriculum Studies 3
	See Education Electives list below for Curriculum Studies 3Y alternatives.

Education Electives

LIST 4: EDUCATION ELECTIVES

CLB049	The Global Teacher
MDB021	Mathematics Curriculum Studies 1
SPB012	Classroom and Behaviour Management
SPB018	Teaching Strategies
SPB020	Classroom Assessment Practices
SPB006	Educational Counselling
	(If enrolled in SPB006, must choose BLOCK option as teaching prac commences in week 10)

Potential Careers:

Actuary, Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Database Manager, Ecologist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist,

Laboratory Technician (Chemistry), Marine Scientist, Mathematician, Medical Biotechnologist, Medical Physicist, Microbiologist, Natural Resource Scientist, Physicist, Plant Biotechnologist, Population Ecologist, Programmer, Quantitative Analyst, Statistician, Virologist.

Bachelor of Applied Science/Bachelor of Education (Primary) (IX14)

Year offered: 2011
Admissions: Yes
CRICOS code: 037540M
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,299 (indicative) per semester
International Fees (indicative): 2011: $11,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 409142
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr Perry Hartfield (Science and Technology). For Education contact Student Affairs 07 3138 3947, or educationenq@qut.edu.au.
Discipline coordinator: Education Course Coordintor Dr Mary Ryan. Science Discipline Coordinators: Dr Perry Hartfield (Biochemistry Major); Dr Marion Bateson (Biotechnology Major); Dr John McMurtrie (Chemistry Major); Dr Ian Williamson (Ecology Major); Dr Robin Thwaites (Environmental Science Major); Dr Gary Huftile (Geoscience Major); Dr Scott McCue (Mathematics Major); Dr Christine Knox (Microbiology Major); Dr Greg Michael (Physics Major)
Campus: Gardens Point and Kelvin Grove

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.

Career Outcomes

The Bachelor of Applied Science allows multidisciplinary programs of study that help you position yourself within the broad range of science disciplines and also qualifies you as a competent professional in your chosen field. You will be equipped to work as a science professional or undertake research after graduation if you desire.

The Bachelor of Education (Primary) prepares you to teach at all levels of primary school. Students may also complete a discipline/content studies major in one of the key learning areas of the Queensland school curriculum.

Professional Recognition

This course meets the requirements for registration as a teacher in Queensland. It is recognised nationally and internationally, however additional requirements may be needed for some locations.

Graduates will also satisfy the requirements for membership of the relevant professional body for their chosen science major. See
Studyfinder for details on the Bachelor of Applied Science majors.

Other Course Requirements

Blue Card

Student teachers must be issued with a blue card prior to having contact with children. For more information and an application form visit Blue Card.

Literacy

Students must meet the Queensland College of Teachers' literacy standards by the end of Year 3. For more information please visit Studyfinder.

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.

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 on deferment.

Further Information

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

Science Coordinator
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Faculty of Education
Student Affairs
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Email: g.michael@qut.edu.au top

Course structure

PLEASE NOTE THAT SOME COURSEWORK UNITS CANNOT BE STUDIED IN THE SAME SEMESTER AS A FIELD STUDIES UNIT. If students do not follow the standard course progression (eg due to a fail grade, or non enrolment in units), time will be added onto the course duration, and you should contact Student Affairs for progression advice, nm.kyle@qut.edu.au.

All other course requirements must have been successfully completed before commencing EDB024 and EDB025 in your final semester of study. This is a University and Queensland College of Teachers requirement.

Students must have a valid Bluecard to be eligible for Field Studies units.

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

MDB120	Mathematics Curriculum and Pedagogies
	Science Major Unit
	Science Major Unit
	Science Major Unit

Year 2, Semester 2

CLB008	Teaching Primary SOSE
	Science Major Unit
	Science Major Unit
	Science Major Unit

Year 3, Semester 1

	Science Major Unit
	Science Major Unit
	Science Major Unit
	Science Major Unit

Year 3, Semester 2

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
KKB202	Teaching Primary Dance and Drama
	Designated Unit: EDB023
MDB006	Teaching Primary Science

Year 4, 6TP4 (unit is run between 4 July and 20 August - see individual class timetable)

EDB005	Teaching and Learning Studies 5: Professional Work of Teachers
MDB004	Teaching Primary ICT

Year 4, Semester 2

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

Course structure - Major in Biochemistry

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function

Year 2, Semester 2

LQB481	Biochemical Pathways and Metabolism
LQB483	Molecular Biology Techniques
LQB681	Biochemical Research Skills

Year 3, Semester 1

LQB581	Functional Biochemistry
LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
	Science Elective

Course structure - Major in Biotechnology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
	Plus select ONE unit from the following:
LQB481	Biochemical Pathways and Metabolism
LQB486	Clinical Microbiology 1
LQB489	Plant Physiology and Cell Biology

Year 3, Semester 1

LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Course structure - Major in Chemistry

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

MAB120	Algebra and Calculus
SCB121	Chemistry 2
SCB131	Experimental Chemistry

Year 2, Semester 1

PQB312	Analytical Chemistry For Scientists and Technologists
PQB313	Analytical Chemistry For Industry
PQB331	Structure and Bonding

Year 2, Semester 2

PQB401	Reaction Kinetics, Thermodynamics and Mechanisms
PQB442	Chemical Spectroscopy
PQB631	Advanced Inorganic Chemistry

Year 3, Semester 1

PQB502	Advanced Physical Chemistry
PQB513	Instrumental Analysis
	Plus either
PQB525	Unit Operations
	Or
PQB531	Organic Mechanisms and Synthesis

Science Elective

Course structure - Major in Ecology

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

NQB202	History of Life on Earth
NQB422	Genetics and Evolution
SCB120	Plant and Animal Physiology

Year 2, Semester 1

NQB321	Ecology
SCB111	Chemistry 1
	Plus either
NQB322	Invertebrate Biology
	Or
NQB323	Plant Biology

Year 2, Semester 2

NQB421	Experimental Design
NQB622	Conservation Biology
	Science Elective

Year 3, Semester 1

NQB502	Field Methods in Natural Resource Sciences
NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management
	Science Elective

Course structure - Major in Environmental Science

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

NQB201	Planet Earth
NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology

Year 2, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology
SCB111	Chemistry 1

Year 2, Semester 2

NQB403	Soils and the Environment
NQB421	Experimental Design
NQB601	Sustainable Environmental Management

Year 3, Semester 1

NQB501	Environmental Modelling
NQB502	Field Methods in Natural Resource Sciences
NQB503	Spatial Analysis of Environmental Systems
	Science Elective

Course structure - Major in Geoscience

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

NQB201	Planet Earth
NQB202	History of Life on Earth
SCB222	Exploration of the Universe

Year 2, Semester 1

NQB311	Mineralogy
NQB314	Sedimentary Geology
SCB111	Chemistry 1

Year 2, Semester 2

NQB411	Petrology of Igneous and Metamorphic Rocks
NQB412	Structural Geology and Field Methods
NQB615	Geochemistry

Year 3, Semester 1

NQB502	Field Methods in Natural Resource Sciences
NQB512	Economic Geology
NQB513	Geophysics
	Science Elective

Course structure - Major in Mathematics (WITH Maths C)

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
MAB121	Calculus and Differential Equations

SCB110	Science Concepts and Global Systems

Year 1, Semester 2

MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
SCB111	Chemistry 1

Year 2, Semester 1

MAB220	Computational Mathematics 1
MAB311	Advanced Calculus
MAB315	Operations Research 2

Year 2, Semester 2

MAB625	Operations Research 3B
	Plus either
MAB414	Applied Statistics 2
	Or
MAB422	Mathematical Modelling
	Plus select ONE unit from the following:
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

SCB112	Cellular Basis of Life
	Plus select THREE units from the following:
MAB521	Applied Mathematics 3
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB672	Advanced Mathematical Modelling

Course structure - Major in Mathematics (WITHOUT Maths C)

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems

Year 1, Semester 2

MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1

Year 2, Semester 1

MAB220	Computational Mathematics 1
MAB311	Advanced Calculus
MAB315	Operations Research 2

Year 2, Semester 2

MAB625	Operations Research 3B
	Plus either
MAB414	Applied Statistics 2
	Or
MAB422	Mathematical Modelling
	Plus select ONE unit from the following:
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

	Select ONE unit from the following:
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus select THREE units from the following:
MAB521	Applied Mathematics 3
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB672	Advanced Mathematical Modelling

Course structure - Major in Microbiology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB486	Clinical Microbiology 1
LQB687	Applied Microbiology 2: Food and Quality Assurance

Year 3, Semester 1

LQB586	Clinical Microbiology 2
LQB587	Applied Microbiology 1: Water, Air and Soil
	Plus either
LQB582	Biomedical Research Technologies
	Or
LQB583	Genetic Research Technology
	Science Elective

Course structure - Major in Physics

Year 1, Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
	Plus either
MAB120	Algebra and Calculus
	Or
MAB121	Calculus and Differential Equations
	NOTE: Students without Senior Mathematics C must take MAB120 in Semester 1 and MAB121 in Semester 2

Year 1, Semester 2	
MAB122	Algebra and Analytic Geometry
PQB250	Mechanics and Electromagnetism
	Plus either
MAB121	Calculus and Differential Equations
	Or
PQB251	Waves and Optics

Year 2, Semester 1	
MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases
SCB112	Cellular Basis of Life

Year 2, Semester 2	
PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation
PQB661	Lasers and Photonics

Year 3, Semester 1	
PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques
PQB651	Experimental Physics
	Science elective for Physics major (See list)

Course structure - Science Elective for Physics Major

	Students must select units that they have not already taken, and for which they have the appropriate prerequisites:
MAB101	Statistical Data Analysis 1
MAB220	Computational Mathematics 1

MAB312	Linear Algebra
NQB311	Mineralogy
NQB322	Invertebrate Biology
NQB323	Plant Biology
PCB593	Digital Image Processing
PQB360	Global Energy Balance and Climate Change
SCB121	Chemistry 2

Potential Careers:

Actuary, Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Database Manager, Ecologist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist, Laboratory Technician (Chemistry), Marine Scientist, Mathematician, Medical Biotechnologist, Medical Physicist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Physicist, Plant Biotechnologist, Population Ecologist, Programmer, Quantitative Analyst, Statistician, Virologist.

Bachelor of Engineering (Software Engineering) (IX25)

Year offered: 2011
Admissions: No
CRICOS code: 053707D
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,878 (indicative) per semester
International Fees (indicative): 2011: $12,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419502
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R.Mahalinga-Iyer
Discipline coordinator: Dr Jasmine Banks
Campus: Gardens Point

DISCONTINUATION

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

Special Note

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

Further Information

For further information about this course, please contact:

Phone +61 7 3138 2678
Fax +61 7 3138 1515
Email: bee.enquiries@qut.com

Bachelor of Applied Science/Bachelor of Information Technology (IX26)

Year offered: 2011
Admissions: No
CRICOS code: 020327M
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,878 per semester (indicative)
International Fees (indicative): 2011: $11,750 (indicative) per semester
QTAC code: 419302
Past rank cut-off: 74
Past OP cut-off: 13
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Course coordinator: Dr Perry Hartfield (Science), Mr Richard Thomas (Information Systems)
Discipline coordinator: Dr Perry Hartfield (Biochemistry Major); Dr Marion Bateson (Biotechnology Major); Dr Robert Johnson (Chemistry Major); Dr Ian Williamson (Ecology Major); Dr Robin Thwaites (Environmental Science Major); Dr Emad Kiriakous (Forensic Science Major); Dr Gary Huftile (Geoscience Major); Dr Christine Knox (Microbiology Major); Dr Greg Michael (Physics Major)
Campus: Gardens Point

Information Systems Major

Compulsory Units

INB311	Enterprise Systems
INB340	Database Design
INB220	Business Analysis

IS Elective Units

INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining and Data Analysis
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB124	Information Systems Development
INB221	Technology Management

Network Systems Major

Compulsory Units

INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB255	Security

Electives

INB312	Enterprise Systems Applications
INB365	Systems Programming
INB353	Wireless and Mobile Networks
INB355	Cryptology and Protocols

Software Architecture Major

Compulsory Units

INB340	Database Design
INB371	Data Structures and Algorithms
INB372	Agile Software Development

Electives

	Choose 3 Electives
INB341	Software Development With Oracle
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB272	Interaction Design
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB365	Systems Programming
INB370	Software Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
MAB281	Mathematics for Computer Graphics
	MAB281 is only to be used as a prereq for INB381

IX26 - Bachelor of Applied Science/Bachelor of Information Technology Course Structure 2009

Course Structure 2009

From semester one, 2009 this course will not be available for commencing students. IX26 will only be available for continuing students. New students - please refer to IX55. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Year 1, Semester 1

INB103	Industry Insights
INB250	Systems Architecture
	Science Core Unit
	Science Core Unit

Year 1, Semester 2

INB210	Databases
INB251	Networks
	Science Major Unit
	Science Major Unit

Year 2, Semester 1

INB104	Building IT Systems
	Choose one unit from: Intermediate Level Elective list. This choice will replace ITB008 from 2009 course summary.
	Science Major Unit
	Science Major Unit

Year 2, Semester 2

INB270	Programming
INB271	The Web
	Science Major Unit
	Science Major Unit

Year 3, Semester 1

	IT Major Unit
	IT Major Unit
	Science Major Unit
	Science Major Unit

Year 3, Semester 2

INB301	The Business of IT
	IT Major Unit
	Science Major Unit
	Science Major Unit

Year 4, Semester 1

INB302	Capstone Project
	IT Major Unit
	Science Major Unit
	Science Major Unit

Year 4, Semester 2

	IT Major Unit
	IT Major Unit
	Science Major Unit
	Science Major Unit

IX26 - Bachelor of Applied Science/Bachelor of Information Technology Course Structure 2008

Year 1, Semester 1

ITB002	IT Professional Studies
ITB005	Systems Architecture
	Science Core Unit
	Science Core Unit

Year 1, Semester 2

ITB004	Database Systems
ITB006	Networks
	Science Core Unit
	Science Core Unit

Year 2, Semester 1

ITB001	Problem Solving and Programming
ITB008	Modelling Analysis and Design
	Science Core Unit
	Science Major Unit

Year 2, Semester 2

ITB003	Object Oriented Programming
ITB007	Web Development
	Science Core Unit
	Science Major Unit

Year 3, Semester 1

	IT Major Unit
	IT Major Unit
	Science Major Unit
	Science Major Unit

Year 3, Semester 2

ITB009	Core Project Management
	IT Major Unit
	Science Major Unit
	Science Major Unit

Year 4, Semester 1

ITB010	Core Project Implementation
	IT Major Unit
	Science Major Unit
	Science Major Unit

Year 4, Semester 2

	IT Major Unit
	IT Major Unit
	Science Major Unit
	Science Major Unit

Potential Careers:

Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Data Communications Specialist, Ecologist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist, Laboratory Technician (Chemistry), Marine Scientist, Medical Biotechnologist, Medical Physicist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Network Administrator, Network Manager, Physicist, Plant Biotechnologist, Population Ecologist, Software Engineer, Systems Analyst, Virologist.

Bachelor of Creative Industries / Bachelor of Information Technology (IX27)

Year offered: 2011
Admissions: No
CRICOS code: 059227E
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,299 per semester (indicative)
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: February
QTAC code: 409872
Past rank cut-off: 86
Past OP cut-off: 8
OP Guarantee: Yes
Assumed knowledge: English (4, SA), and for games technology and security majors, Maths B (4, SA), or for all other majors, Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Head, Undergraduate Studies (Creative Industries); Mr Richard Thomas (Science and Technology)
Campus: Gardens Point and Kelvin Grove

Overview

This four-year program gives you the opportunity to allow your creative side to shine through as it complements your technical information technology skills. The integrated program consists of 16 creative industries units and 16 information technology units so that you will study both creative industries and information technology units in each semester. You will choose one information technology major from business systems engineering, databases, electronic business, games technology, information and knowledge management, information systems, information technology management, intelligent systems, security, network systems, software architecture, or web services and applications.

The Bachelor of Creative Industries emphasises the use of technology through digital media and film production in the interdisciplinary major. You can choose a creative industries Second major that will build complementary skill sets, such as digital media or film, television and screen. Alternatively, you may choose a creative industries area of interest to diversify your IT studies.

Creative Industries Second majors include art and design history; creative and professional writing; dance; digital media, fashion; film, television and screen; interactive and visual design; journalism; media and communication; literary and cultural studies.

Course Update

From Semester 1, 2009, a revised version of this double degree program has been introduced. This course has been recoded IX56 Bachelor of Creative Industries/Bachelor of Information Technology. The current IX27 Bachelor of Creative Industries/Bachelor of Information Technology will be offered for continuing students only.

Career Outcomes

The creative industries Second majors in this double degree have been specifically chosen for their relevance to careers in information technology. You will undertake the Bachelor of Creative Industries interdisciplinary major as well as one creative industries second major. Your information technology degree component comprises eight core units and and eight units in your information technology major.

You will learn creative and technical skills within a contextual framework, so you will be well placed to build your career in digital product and new media strategy.

Course Structure

This course is made up of 384 credit points. Each component (i.e. Creative Industries and Information Technology) comprises 192 credit points.

The Creative Industries component is made up of 24 credit points of Faculty Foundation units, 168 credit points from Creative Industries interdisciplinary units.

The Information Technology component is made up of 120 credit points of Faculty core units and 72 credit points of units from an IT major.

Professional Recognition

Graduates of the Bachelor of Information Technology component meet the knowledge requirements for admission to the Australian Computer Society (ACS).

OP Guarantee

The OP Guarantee does not apply to this course.

Unit Incompatibility/Translation Information

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

Further Information

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

Science and Technology Coordinator
Mr Richard Thomas
Phone: +61 073138 2782
Email: enquiry.scitech@qut.edu.au

Creative Industries Coordinator
Phone +61 7 3138 8114
Fax +61 7 3138 8116
Email: creativeindustries@qut.edu.au

Overview for students who commenced in 2008

Year 1, Semester 1

INB103	Industry Insights
INB250	Foundations of Computer Science
KKB101	Creative Industries: People and Practices
SELECT	A Creative Industries Discipline Unit

Year 1, Semester 2

INB210	Databases
INB251	Networks
KKB102	Creative Industries: Making Connections
SELECT	A Creative Industries Discipline Unit

Year 2, Semester 1

INB104	Building IT Systems
	Choose one unit from: Intermediate Level Elective list. This choice will replace ITB008 from 2009 course summary.
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Discipline Unit

Year 2, Semester 2

INB270	Programming
INB271	The Web
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Discipline Unit

Year 3, Semester 1

	IT Major Unit
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Discipline Unit

Year 3, Semester 2

INB301	The Business of IT
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Discipline Unit

Year 4, Semester 1

INB302	IT Capstone Project
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Unit Option

Year 4, Semester 2

	IT Major Unit
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Unit Option

Communication Design course structure for students who commenced in 2008

Year 1, Semester 1

KKB101	Creative Industries: People and Practices
KIB101	Visual Communication

Year 1, Semester 2

KKB102	Creative Industries: Making Connections
KIB102	Visual Interactions

Year 2, Semester 1

SELECT	A Creative Industries Unit Option
KIB103	Introduction to Web Design and Development

Year 2, Semester 2

SELECT	A Creative Industries Unit Option
KIB104	Digital Media

Year 3, Semester 1

KIB214	Design for Interactive Media
SELECT	Either KIB230 or KKB216:
KIB230	Interface and Information Design
KKB216	Graphical Development Environments for Media Interaction

Year 3, Semester 2

KIB216	Advanced Web Design
SELECT	Either KIB205 or KVB204:
KIB205	Programming for Visual Designers and Artists
KVB204	Graphic Design

Year 4, Semester 1

KIB315	Contemporary Issues in Digital Media
SELECT	Either KIB309 or KIB335:
KIB309	Embodied Interactions
KIB335	Typography and Illustration

Year 4, Semester 2

KIB322	Design Project
SELECT	Either KIB314 or KKB338:
KIB314	Tangible Media
KIB338	Print Media

Interdisciplinary course structure for students who commenced in 2008

Year 1, Semester 1

KKB101	Creative Industries: People and Practices
SELECT	Either KPB101 or KVB104:
KPB101	Introduction to Film, TV and New Media Production
KVB104	Photomedia and Artistic Practice

Year 1, Semester 2

KKB102	Creative Industries: Making Connections
KCB103	Strategic Speech Communication

Year 2, Semester 1

KKB221	Approaching Interdisciplinarity
SELECT	Creative Industries co-major: First Unit

Year 2, Semester 2

KKB222	Interdisciplinarity in Practice
SELECT	Creative Industries co-major: Second Unit

Year 3, Semester 1

SELECT	Creative Industries co-major: Third Unit
SELECT	Creative Industries co-major: Fourth Unit

Year 3, Semester 2

SELECT	Creative Industries co-major: Fifth Unit
SELECT	Creative Industries co-major: Sixth Unit

Year 4, Semester 1

SELECT	Transitions to New Professional Environment Unit
SELECT	Creative Industries co-major: Seventh Unit

Year 4, Semester 2

SELECT	Transitions to New Professional Environment Unit
SELECT	Creative Industries co-major: Eighth Unit

Music course structure for students who commenced in 2008

Year 1, Semester 1

KKB101	Creative Industries: People and Practices
SELECT	Either KMB003 or KMB005-1:
KMB003	Sex Drugs Rock 'N' Roll
KMB005-1	Group Music

Year 1, Semester 2

KKB102	Creative Industries: Making Connections
KMB105	Music and Sound Technology
SELECT	KMB005-2 if KMB005-1 was completed in semester 1:
KMB005-2	Group Music

Year 2, Semester 1

KMB130	Core Musicianship 1
SELECT	Either KMB110 or KMB120:
KMB110	Music Production 1
KMB120	Music Performance 1

Year 2, Semester 2

KMB131	Core Musicianship 2
SELECT	Either KMB111 or KMB121:

KMB111	Music Production 2
KMB121	Music Performance 2

Year 3, Semester 1

SELECT	A Music Unit Option (List A)
KMB214-1	Music and Sound: Principal Study A

Year 3, Semester 2

SELECT	A Music Unit Option (List B)
KMB214-2	Music and Sound: Principal Study A

Year 4, Semester 1

SELECT	A Creative Industries Unit Option
SELECT	A Music Unit Option (List A)

Year 4, Semester 2

SELECT	A Creative Industries Unit Option
SELECT	A Music Unit Option (List B)

LIST A: Music Unit Options

KMB003	Sex Drugs Rock 'N' Roll
KMB004	World Music
KMB108	Sound Recording and Acoustics
KMB113	Multi-Instrumental Music A
KMB119	Music and Sound Production 1
KMB122	Music and Sound Concepts 1
KMB200	Music Scenes and Subcultures
KMB209	Conducting
KMB213	Multi-Instrumental Music B
	Note: KMB206 and KMB207 are permitted to count as List A Music Unit Options if completed in 2010 or earlier.

LIST B: Music Unit Options

KMB002	Music and Spirituality
KMB107	Sound, Image, Text
KMB108	Sound Recording and Acoustics
KMB129	Music and Sound Production 2
KMB132	Music and Sound Concepts 2
KMB212	Arranging
KMB252	Multi-Platform Sound Design
KMB301	The Music Industry
	Note: KMB106, KMB205 and KMB208 are permitted to count as List B Music Unit Options if completed in 2010 or earlier.

Sound Design course structure for students who commenced in 2008

Year 1, Semester 1

KKB101	Creative Industries: People and Practices
KMB105	Music and Sound Technology

Year 1, Semester 2

KKB102	Creative Industries: Making Connections
KMB106	Music and Sound for Multimedia
	*Please note: KMB106 will be discontinued at the end of 2010 and replaced by KMB252.

Year 2, Semester 1

KMB104	Music and Sound Skills
KMB110	Music Production 1

Year 2, Semester 2

KMB107	Sound, Image, Text
KMB111	Music Production 2

Year 3, Semester 1

SELECT	A Sound Design Unit Option (List A)
KMB214-1	Music and Sound: Principal Study A

Year 3, Semester 2

KMB205	Sound Media Musicianship
KMB214-2	Music and Sound: Principal Study A

Year 4, Semester 1

SELECT	A Creative Industries Unit Option
SELECT	A Creative Industries Unit Option

Year 4, Semester 2

KMB301	The Music Industry
SELECT	A Sound Design Unit Option (List B)

LIST A: Sound Design Unit Options

KIB103	Introduction to Web Design and Development
KIB108	Animation History and Practices
KMB003	Sex Drugs Rock 'N' Roll
KMB004	World Music

LIST B: Sound Design Unit Options

KCB207	Exploring New Media Worlds
KIB104	Digital Media
KIB105	Animation and Motion Graphics
KPB101	Introduction to Film, TV and New Media Production

Overview for students who commenced in 2007

Year 1, Semester 1

INB103	Industry Insights
INB250	Foundations of Computer Science
SELECT	A Creative Industries Core Unit
SELECT	A Creative Industries Discipline Unit

Year 1, Semester 2

INB210	Databases
INB251	Networks
SELECT	A Creative Industries Core Unit
SELECT	A Creative Industries Discipline Unit

Year 2, Semester 1

INB104	Building IT Systems
	Choose one unit from: Intermediate Level Elective list. This choice will replace ITB008 from 2009 course summary.
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Discipline Unit

Year 2, Semester 2

INB270	Programming
INB271	The Web
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Discipline Unit

Year 3, Semester 1

	IT Major Unit
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Discipline Unit

Year 3, Semester 2

INB301	The Business of IT
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Discipline Unit

Year 4, Semester 1

INB302	IT Capstone Project
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Unit Option

Year 4, Semester 2

	IT Major Unit
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Unit Option

Communication Design course structure for students who commenced in 2007

Year 1, Semester 1

SELECT	A Creative Industries Core Unit
KIB101	Visual Communication

Year 1, Semester 2

SELECT	A Creative Industries Core Unit
KIB102	Visual Interactions

Year 2, Semester 1

SELECT	A Creative Industries Unit Option
KIB103	Introduction to Web Design and Development

Year 2, Semester 2

SELECT	A Creative Industries Unit Option
KIB104	Digital Media

Year 3, Semester 1

KIB214	Design for Interactive Media
SELECT	Either KIB230 or KKB216:
KIB230	Interface and Information Design
KKB216	Graphical Development Environments for Media Interaction

Year 3, Semester 2

KIB216	Advanced Web Design
SELECT	Either KIB205 or KVB204:
KIB205	Programming for Visual Designers and Artists
KVB204	Graphic Design

Year 4, Semester 1

KIB315	Contemporary Issues in Digital Media
SELECT	Either KIB309 or KIB335:
KIB309	Embodied Interactions
KIB335	Typography and Illustration

Year 4, Semester 2

KIB322	Design Project
SELECT	Either KIB314 or KKB338:
KIB314	Tangible Media
KIB338	Print Media

Interdisciplinary course structure for students who commenced in 2007

Year 1, Semester 1

SELECT	A Creative Industries Core Unit
SELECT	Sub-Major 1: First Unit

Year 1, Semester 2

SELECT	A Creative Industries Core Unit
SELECT	Sub-Major 1: Second Unit

Year 2, Semester 1

SELECT	Sub-Major 1: Third Unit
SELECT	Sub-Major 2: First Unit

Year 2, Semester 2

SELECT	Sub-Major 1: Fourth Unit
SELECT	Sub-Major 2: Second Unit

Year 3, Semester 1

SELECT	Sub-Major 1: Fifth Unit
SELECT	Sub-Major 2: Third Unit

Year 3, Semester 2

SELECT	Sub-Major 1: Sixth Unit
SELECT	Sub-Major 2: Fourth Unit

Year 4, Semester 1

SELECT	A Creative Industries Unit Option
SELECT	Sub-Major 2: Fifth Unit

Year 4, Semester 2

SELECT	A Creative Industries Unit Option
SELECT	Sub-Major 2: Sixth Unit

Please note: At least eight of your sub-major units must be K-coded units

Music course structure for students who commenced in 2007

Year 1, Semester 1

SELECT	A Creative Industries Core Unit
SELECT	Either KMB003 or KMB005-1:
KMB003	Sex Drugs Rock 'N' Roll
KMB005-1	Group Music

Year 1, Semester 2

SELECT	A Creative Industries Core Unit
KMB105	Music and Sound Technology
SELECT	KMB005-2 if KMB005-1 was completed in semester 1:
KMB005-2	Group Music

Year 2, Semester 1

KMB130	Core Musicianship 1
SELECT	Either KMB110 or KMB120:
KMB110	Music Production 1
KMB120	Music Performance 1

Year 2, Semester 2

KMB131	Core Musicianship 2
SELECT	Either KMB111 or KMB121:
KMB111	Music Production 2
KMB121	Music Performance 2

Year 3, Semester 1

SELECT	A Music Unit Option (List A)
KMB214-1	Music and Sound: Principal Study A

Year 3, Semester 2

SELECT	A Music Unit Option (List B)
KMB214-2	Music and Sound: Principal Study A

Year 4, Semester 1

SELECT	A Creative Industries Unit Option
SELECT	A Music Unit Option (List A)

Year 4, Semester 2

SELECT	A Creative Industries Unit Option
SELECT	A Music Unit Option (List B)

LIST A: Music Unit Options

KMB003	Sex Drugs Rock 'N' Roll
KMB004	World Music
KMB108	Sound Recording and Acoustics
KMB113	Multi-Instrumental Music A
KMB119	Music and Sound Production 1
KMB122	Music and Sound Concepts 1
KMB200	Music Scenes and Subcultures
KMB209	Conducting
KMB213	Multi-Instrumental Music B

Note: KMB206 and KMB207 are permitted to count as List A Music Unit Options if completed in 2010 or earlier.

LIST B: Music Unit Options

KMB002	Music and Spirituality
KMB107	Sound, Image, Text
KMB108	Sound Recording and Acoustics
KMB129	Music and Sound Production 2
KMB132	Music and Sound Concepts 2
KMB212	Arranging
KMB252	Multi-Platform Sound Design
KMB301	The Music Industry

Note: KMB106, KMB205 and KMB208 are permitted to count as List B Music Unit Options if completed in 2010 or earlier.

Sound Design course structure for students who commenced in 2007

Year 1, Semester 1

SELECT	A Creative Industries Core Unit
KMB105	Music and Sound Technology

Year 1, Semester 2

SELECT	A Creative Industries Core Unit
KMB106	Music and Sound for Multimedia

*Please note: KMB106 will be discontinued at the end of 2010 and replaced by KMB252.

Year 2, Semester 1

KMB104	Music and Sound Skills
KMB110	Music Production 1

Year 2, Semester 2

KMB107	Sound, Image, Text
KMB111	Music Production 2

Year 3, Semester 1

SELECT	A Sound Design Unit Option (List A)
KMB214-1	Music and Sound: Principal Study A

Year 3, Semester 2

KMB205	Sound Media Musicianship
KMB214-2	Music and Sound: Principal Study A

Year 4, Semester 1

SELECT	A Creative Industries Unit Option
SELECT	A Creative Industries Unit Option

Year 4, Semester 2

KMB301	The Music Industry
SELECT	A Sound Design Unit Option (List B)

LIST A: Sound Design Unit Options

KIB103	Introduction to Web Design and Development
KIB108	Animation History and Practices
KMB003	Sex Drugs Rock 'N' Roll
KMB004	World Music

LIST B: Sound Design Unit Options

KCB207	Exploring New Media Worlds
KIB104	Digital Media
KIB105	Animation and Motion Graphics
KPB101	Introduction to Film, TV and New Media Production

Creative Industries Second Major Options

INSTRUCTIONS FOR SECOND MAJORS/CO-MAJORS

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 second major, following semester of offer and unit requisites (where applicable) to determine order of enrolment. Any unit(s) that appear in these second majors and are also mandatory elsewhere in your course can not contribute towards the completion of these second majors. Any unit(s) that appear in multiple second majors can only contribute towards the completion of one of these second majors.

Advertising

Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this second major.

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
AMB220	Advertising Theory and Practice
AMB318	Advertising Copywriting

AMB319	Media Planning
AMB320	Advertising Management
AMB330	Advertising Planning Portfolio
BSB126	Marketing

Note: AMB221 and AMB339 are permitted to count towards the completion of this unit set if completed in 2009 or earlier.

Animation

Description: This second 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 second major.

KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KIB203	Introduction to 3D Computer Graphics
KIB220	Animation Production
KIB221	Animation: CG Toolkit
KIB225	Character Development, Conceptual Design and Animation Layout
KIB316	Virtual Environments
KIB325	Real-Time 3D Computer Graphics
KVB105	Drawing for Design
KVB106	Drawing for Animation

Architectural Studies

A full list of the units offered in this study package is available from: http://www.bee.qut.edu.au/study/current/2majormin/majors/

Art and Design History

Description: This second 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 second 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 second major.

DAB325	Architecture in the 20th Century
DAB420	Architecture, Culture and Space
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

Description: The aim of this second 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 and 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 second major.

Instructions: Of the eight units you need to complete, you must select at least three units coded 200 or above.

KWB101	Introduction to Creative Writing
KWB102	Media Writing
KWB103	Persuasive Writing
KWB104	Creative Writing: the Short Story
KWB106	Corporate Writing and Editing
KWB107	Creative Non-Fiction
KWB206	Youth and Children's Writing
KWB207	Great Books: Creative Writing Classics
KWB211	Stylistics and Poetics
KWB303	Writing and Publishing Industry
KWB313	Novel and Memoir

Dance Studies

Description: This second 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 second major. It is essential that you be physically able, fit and have basic knowledge in a dance technique, either ballet, jazz or contemporary dance.

Instructions: Of the eight units you need to complete, you must select at least two units coded 200 or above.

KDB103	Dance Technique Studies 1

KDB104	Dance Technique Studies 2
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
KDB204	Australian Dance
KDB205	Dance in Education
KDB225	Music Theatre Skills

*Please note that the Dance Studies major in the Bachelor of Creative Industries is NOT a pathway to secondary dance teaching

Digital Media

Description: Online and interactive technologies now dominate creative and professional life. This second major provides you with the opportunity to develop websites, multimedia projects, wikis and blogs, as well as allowing you to understand the guiding principals behind these new modes of communication and creative practice.

Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this second major.

KCB101	Introduction to Media and Communication: Texts
SELECT:	Either KCB102 or KJB101:
KCB102	Media Myth Busting 1
KJB101	Digital Journalism
SELECT	Either KCB104 or KPB110:
KCB104	Media and Communications: Industries
KPB110	The Movie, TV & New Media Business
KCB206	New Media: Internet, Self and Beyond
KCB207	Exploring New Media Worlds
KCB203	Consumption Matters: Consumer Cultures and Identity
KIB101	Visual Communication
KIB103	Introduction to Web Design and Development
KVB306	Video Art and Culture

Drama

Description: The second 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 second 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 second major.

KDB225	Music Theatre Skills
KTB101	20th Century Performance
KTB103	Performing Skills 1: Character and Scene
KTB104	Performance Innovation
KTB106	Performing Skills 2: Style and Form
KTB204	Understanding Performance
KTB207	Staging Australia
KTB210	Creative Industries Management
KTB211	Creative Industries Events and Festivals
KTB305	The Entrepreneurial Artist
KTB306	Directing for Performance Events and Festivals

Entertainment Industries

Description: On completion of this second 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 second major.

SELECT	Either BSB126 or KPB101 (BSB126 is mandatory unless you are already undertaking it as part of another study package):
BSB126	Marketing
KPB101	Introduction to Film, TV and New Media Production
AMB207	Entertainment Marketing
KXB101	Introduction to Entertainment
KXB102	Global Entertainment
KXB201	Entertainment Practice: Balancing Creativity and Business
KXB301	Entertainment?Industries Map
LWS008	Entertainment Law
LWS009	Introduction to Law

Note: LWS009 will be first offered in semester 2 2011. KXB301 and LWS008 will first be offered in semester 1 2012. AMB200, KCB301 or KWB102 will be permitted to count towards this study package if completed in 2010 or earlier.

Entrepreneurship

Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this second major.

AMB251	Innovation and Brand Management
BSB115	Management
BSB126	Marketing
MGB200	Leading Organisations
MGB223	Entrepreneurship and Innovation

MGB324   Managing Business Growth

SELECT   Two units from the Advanced AMB Unit Options list OR two units from the Advanced MGB Unit Options list

Advanced AMB Unit Options (AMB240 is mandatory):

AMB201   Marketing and Audience Research

AMB240   Marketing Planning and Management

Advanced MGB Unit Options (MGB310 is mandatory):

MGB210   Managing Operations

MGB225   Intercultural Communication and Negotiation Skills

MGB310   Sustainability in A Changing Environment

Note: AMB230, EFB210, MGB207, MGB216, MGB222 and MGB335 are permitted to count towards the completion of this unit set if completed in 2009 or earlier. AMB336 and AMB340 are permitted to count towards the Advanced AMB Unit Options if completed in semester 1 2011 or earlier.

Fashion

Description: This second major has been designed to offer a mix of theoretical and practical units. The theory units will develop your knowledge and understanding of the history, industry and consumption of fashion and will introduce you to the critical legal issues surrounding the production and distribution of fashion. The practical units provide you with a variety of options to develop fashion related skills focusing on textile design, portfolio development and fashion journalism.

Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this second major.

KCB203   Consumption Matters: Consumer Cultures and Identity

KFB103   Introduction to Fashion

KFB106   Unspeakable Beauty: A History of Fashion and Style

KFB107   Drawing for Fashion

KFB205   Fashion and Style Journalism

KFB206   Fashion and Modernity

KFB207   Contemporary Fashion

KFB208   Fashion Portfolio

KFB209   Ragtrade: Wholesaling Fashion

KFB304   Fashion, Law and the Real World

KVB213   Graphic Investigation

Film, Television and Screen

Description: The aim of this second 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 second major.

KPB101   Introduction to Film, TV and New Media Production

KPB104   Film and Television Production Resource Management

KPB105   Narrative Production

KPB109   Film and TV History

KPB110   The Movie, TV & New Media Business

KPB112   TV and Film Genres

KPB113   TV and Film Text Analysis

KPB202   Film and Television Business Skills: Entrepreneurship and Investment

KPB205   Documentary Theory and Practice

KPB206   International Cinema

KPB212   Australian Film and TV

KPB303   Critical Thinking About Television

KPB313   How to be a Producer^

* Please Note: KPB203 is permitted to count towards this unit set.

^KPB313 will be offered from 2012.

Games Design

Description: The aim of this second major is to provide you with a thorough and balanced education in the skills and knowledge required of a game or interactive media designer. You will gain an understanding of the design process associated with interactive environments and, through experience and analysis of the creative process, an understanding of how their work contributes to the computer games and interactive entertainment industry.

Assumed Knowledge: To be eligible to undertake INB272 you must have passed either INB103 or KIB101.

INB180   Computer Games Studies

INB181   Introduction to Games Production

INB280   Fundamentals of Game Design

INB272   Interaction Design

INB104   Building IT Systems

INB281   Advanced Game Design

KIB201   Concept Development for Game Design and Interactive Media

KIB202   Enabling Immersion

Note: KIB101 and KIB102 are permitted to count towards this major if they were completed in 2009 or earlier.

Industrial Design

A full list of the units offered in this study package is available from: http://www.bee.qut.edu.au/study/current/2majormin/majors/

Interior Design

A full list of the units offered in this study package is available from: http://www.bee.qut.edu.au/study/current/2majormin/majors/

Integrated Marketing Communication

AMB202	Integrated Marketing Communication
AMB220	Advertising Theory and Practice
AMB263	Introduction To Public Relations
AMB331	Direct Marketing
AMB350	Sales and Customer Relationship Management
BSB126	Marketing
SELECT	Two units from AMB208, AMB230 or AMB261:
AMB208	Events Marketing
AMB230	Digital Promotions
AMB261	Media Relations and Publicity

Note: AMB240 and AMB260 are permitted to count towards the completion of this unit set if completed in 2009 or earlier.

Interactive and Visual Design

Description: This second 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 second major.

KIB101	Visual Communication
KIB102	Visual Interactions
KIB103	Introduction to Web Design and Development
KIB104	Digital Media
KIB214	Design for Interactive Media
KIB216	Advanced Web Design
KIB230	Interface and Information Design
KIB315	Contemporary Issues in Digital Media
KVB105	Drawing for Design
KVB204	Graphic Design

Journalism, Media and Communication

Description: This second major offers you a range of options to develop an understanding of the parameters of the journalism and professional communication fields. You can choose a mix of units to suit your career aspirations. If you choose to focus more on the Journalism (KJB) units, the second major will introduce you to a range of journalism writing styles and offers an insight into some specialist areas of reporting. If you choose to focus more on the Media and Communication (KCB) units, it has been designed to enable 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.

SELECT	Either KCB102 or KJB101:
KCB102	Media Myth Busting 1
KJB101	Digital Journalism
KJB120	Newswriting
KCB104	Media and Communications: Industries
KJB121	Journalistic Inquiry
KCB103	Strategic Speech Communication
KJB224	Feature Writing
KJB239	Journalism Ethics and Issues
SELECT	Either KFB205 or KJB280:
KFB205	Fashion and Style Journalism
KJB280	International Journalism
KCB301	Media Audiences
KCB302	Political Communication
SELECT	Either KCB304 or KJB337:
KCB304	Designing Communication Resources
KJB337	Public Affairs Reporting

Landscape Architecture Studies

A full list of the units offered in this study package is available from: http://www.bee.qut.edu.au/study/current/2majormin/majors/

Literary Studies

Description: The aims of this second 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 second major.

KWB108	Introduction To Literary Studies
KWB109	Writing Australia
KWB206	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
KWB309	Popular Fictions, Popular Culture
	* KWB210 will be offered for the first time in semester 1 2012.

Marketing

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
AMB202	Integrated Marketing Communication
AMB240	Marketing Planning and Management
AMB335	E-marketing Strategies
AMB336	International Marketing
AMB340	Services Marketing
BSB126	Marketing
	Note: AMB359 is permitted to count towards the completion of this unit set if completed in 2009 or earlier.

Music

Description: This second 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 second major.

KDB225	Music Theatre Skills
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
KMB200	Music Scenes and Subcultures
KMB301	The Music Industry
	Please note: KKB345 is permitted to count towards this unit set if completed in 2010 or earlier.

Online Environments

Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this second major.

INB104	Building IT Systems
	Choose 3 of the following units (INB122 and INB210 cannot both be taken)
INB122	Organisational Databases
INB210	Databases
INB270	Programming
INB271	The Web

INB272	Interaction Design
	Choose 4 of the following INB 300-level units
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB340	Database Design
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB370	Software Development
INB373	Web Application Development

Public Relations

AMB201	Marketing and Audience Research
AMB202	Integrated Marketing Communication
AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques
AMB372	Public Relations Planning
AMB373	Corporate Communication
AMB374	Global Public Relations Cases
BSB126	Marketing
	Note: AMB261, AMB262, AMB379 are permitted to count towards the completion of this unit set if completed in 2009 or earlier.

Creative Industries Sub-Majors

Art and Visual Culture (KAV)

	Instructions: Complete any six of the below units.
KVB102	Modernism
KVB103	Australian Art
KVB108	Contemporary Asian Visual Culture
KVB110	2D Media and Processes
KVB111	3D Media and Processes
KVB211	Post 1945 Art
KVB304	Contemporary Art Issues
KVB306	Video Art and Culture

Art History, Architecture and Design (KAA)

	Instructions: Complete any six of the below units.
DAB325	Architecture in the 20th Century
DAB420	Architecture, Culture and Space
DAB525	Architecture and the City
DEB202	Introducing Design History
KVB102	Modernism
KVB211	Post 1945 Art
KVB212	Australian Art, Architecture and Design
KVB307	Theories of Spatial Culture

Communication (KCN)

Instructions: Complete any six of the below units.

KCB101	Introduction to Media and Communication: Texts
KCB103	Strategic Speech Communication
KCB104	Media and Communications: Industries
KCB105	Media Myth Busting 2
KCB302	Political Communication
KKB004	Indigenous Creative Industries
KWB102	Media Writing
KWB106	Corporate Writing and Editing

Computational Arts (KKC)

Instructions: Complete any six of the below units.

KIB101	Visual Communication
KIB103	Introduction to Web Design and Development
KIB105	Animation and Motion Graphics
KMB107	Sound, Image, Text
KMB129	Music and Sound Production 2
KVB211	Post 1945 Art

Note: ITB001, ITB003, KKB210, KKB211 and KVB202 are permitted to count towards this sub-major.

Creative and Professional Writing (KCW)

Instructions: Complete any six of the below units.

KWB101	Introduction to Creative Writing
KWB102	Media Writing
KWB103	Persuasive Writing
KWB104	Creative Writing: the Short Story
KWB106	Corporate Writing and Editing
KWB107	Creative Non-Fiction
KWB206	Youth and Children's Writing

Note: KWB204 is permitted to count towards this sub-major.

Creative Industries Management (KCI)

Instructions: Complete any six of the below units.

BSB115	Management
BSB126	Marketing
KTB104	Performance Innovation
KTB207	Staging Australia
KTB210	Creative Industries Management
KTB211	Creative Industries Events and Festivals
KTB306	Directing for Performance Events and Festivals
MGB223	Entrepreneurship and Innovation

Dance (KDN)

KDB105	Architecture of the Body
KDB106	Dance Analysis
KDB108	World Dance
KDB109	Funk, Tap and all that Jazz
KDB110	Deconstructing Dance in History
KDB204	Australian Dance

Digital Media (KDM)

Instructions: Complete any six of the below units.

KCB102	Media Myth Busting 1
KCB203	Consumption Matters: Consumer Cultures and Identity
KCB206	New Media: Internet, Self and Beyond
KCB207	Exploring New Media Worlds
KIB101	Visual Communication
KIB103	Introduction to Web Design and Development
KPB110	The Movie, TV & New Media Business
KVB306	Video Art and Culture

Fashion, Art and Communication (KFA)

Instructions: Complete any six of the below units.

KCB203	Consumption Matters: Consumer Cultures and Identity
KFB103	Introduction to Fashion
KFB205	Fashion and Style Journalism
KFB206	Fashion and Modernity
KVB104	Photomedia and Artistic Practice
KVB108	Contemporary Asian Visual Culture
KVB212	Australian Art, Architecture and Design

Note: KFB203 is permitted to count towards this sub-major.

Indigenous Studies (KIS)

Instructions: Complete any six of the below units.

EDB007	Culture Studies: Indigenous Education
EDB038	Indigenous Australian Culture Studies
EDB039	Indigenous Politics and Political Culture
EDB040	Indigenous Knowledge: Research Ethics and Protocols
EDB041	Indigenous Australia: Country, Kin and Culture
KWB109	Writing Australia

Note: JSB352, KKB004 and KWB307 are permitted to count towards this sub-major.

Interaction Design (KIN)

Instructions: Complete any six of the below units.

KIB101	Visual Communication
KIB102	Visual Interactions
KIB103	Introduction to Web Design and Development
KIB104	Digital Media

KIB214	Design for Interactive Media
KIB230	Interface and Information Design
	Note: KIB210 (24 cps) is permitted to count towards this sub-major.

Journalism (KJO)

	Instructions: Complete any six of the below units.
KFB205	Fashion and Style Journalism
KJB101	Digital Journalism
KJB120	Newswriting
KJB121	Journalistic Inquiry
KJB224	Feature Writing
KJB239	Journalism Ethics and Issues
KJB280	International Journalism
KJB337	Public Affairs Reporting

Literary and Cultural Studies (KLC)

	Instructions: Complete any six of the below units.
KWB103	Persuasive Writing
KWB108	Introduction To Literary Studies
KWB109	Writing Australia
KWB206	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
KWB308	Wonderlands: Literature and Culture in the 19th Century
KWB309	Popular Fictions, Popular Culture

Music and Sound Studies (KMS)

	Instructions: Complete any six of the below units.
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
KMB301	The Music Industry
	Note: KMB002, KMB007, KMB104 and KMB204 are permitted to count towards this sub-major.

Performance Studies (KTP)

	Instructions: Complete any six of the below units.
KTB101	20th Century Performance
KTB102	Process Drama
KTB103	Performing Skills 1: Character and Scene
KTB104	Performance Innovation
KTB106	Performing Skills 2: Style and Form
KTB204	Understanding Performance
KTB207	Staging Australia
KTB209	Applied Performance

Screen Studies (KSC)

	Instructions: Complete any six of the below units.
KPB109	Film and TV History
KPB112	TV and Film Genres
KPB113	TV and Film Text Analysis
KPB205	Documentary Theory and Practice
KPB206	International Cinema
KPB212	Australian Film and TV

Television (KTV)

KPB101	Introduction to Film, TV and New Media Production
KPB104	Film and Television Production Resource Management
KPB105	Narrative Production
KPB110	The Movie, TV & New Media Business
KPB112	TV and Film Genres
KPB303	Critical Thinking About Television

IMPORTANT

Where it allows, students can take a maximum of 8 units outside the Creative Industries Faculty (depending on the course the student is currently enrolled in). The following submajors/minors are offered through the Faculty of Business. Students may take only ONE of these as a complete submajor. For information about availability of non-Creative Industries Units, contact the Course Coordinator

Advertising (KAD)

AMB200	Consumer Behaviour
AMB220	Advertising Theory and Practice
AMB318	Advertising Copywriting
AMB319	Media Planning
AMB320	Advertising Management
BSB126	Marketing

Entrepreneurship (KEN)

	Instructions: Complete any six of the below units.
AMB251	Innovation and Brand Management
BSB115	Management
BSB126	Marketing
MGB200	Leading Organisations
MGB223	Entrepreneurship and Innovation
MGB324	Managing Business Growth
	Note: BSB212 and AMB202 are permitted to

be counted towards this sub-major if completed in 2009 or earlier.

Public Relations (KPR)

AMB201	Marketing and Audience Research
AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques
AMB372	Public Relations Planning
AMB373	Corporate Communication
BSB126	Marketing

Note: AMB261 and AMB262 are permitted to count towards this sub-major if completed in 2009 or earlier.

Creative Industries Minor Options

INSTRUCTIONS FOR MINORS

* Minors offered by other faculties can be accessed through 'University Wide Minor Options' and 'Language Minor Options'. Some minors to consider include: Advertising, Architectural Studies, Collaborative Digital Design, Game Design, Entrepreneurship, Information Technology, Integrated Marketing Communication, Interior Design Studies, International Business, Lighting, Management, Marketing, Mathematics, and Public Relations.

Please refer to the following study sequences to plan your program. You must complete 48 credit points (normally four 12 credit point subjects) from the specified units to achieve a minor, following semester of offer and unit prerequisites (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.

Advanced Interactive Media

Description: This minor focuses on the design of interactive projects at the intersection of social and tangible media. Classes across the minor employ studio based approaches to teaching and learning, and as such provide students with space to develop their design practice through engaging project briefs.

KKB216	Graphical Development Environments for Media Interaction
KIB205	Programming for Visual Designers and Artists
KIB309	Embodied Interactions
KIB314	Tangible Media

Animation

Description: The aim of this minor is to provide you with a broad understanding of animation through the combination of units that encompass drawing for animation with a unit that addresses computer animation processes. This is then contextualized through Animation Practices, which covers the history of animation and considers the cultural significance of the form, and the diversity of practices.

Instructions: Choose any four (4) of the following six units:

KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KIB203	Introduction to 3D Computer Graphics
KIB225	Character Development, Conceptual Design and Animation Layout
KVB105	Drawing for Design
KVB106	Drawing for Animation

Art History

Description: This minor presents an introduction to the Second major art movements and issues in twentieth- and twenty-first century art. It actively fosters skills of visual and textual literacy by combining both in a coherent package of study. It will supplement the study for those interested in the arts as well as cognate disciplines such as design, fashion, media and architecture.

KVB102	Modernism
KVB103	Australian Art
KVB211	Post 1945 Art
KVB304	Contemporary Art Issues

Art, Design and Architecture

Description: This minor introduces you to the cognate disciplines of art, design and architecture. Aspiring practitioners who wish to understand the historical and intellectual traditions of their fields will benefit from this minor, as will those who are considering future honours and postgraduate study in this field.

DAB325	Architecture in the 20th Century
DEB202	Introducing Design History
KVB212	Australian Art, Architecture and Design
KVB306	Video Art and Culture

Audience and User Research

Description: The value of much creative and business activity is determined by its success with audiences and users and the ability to understand and research the people who engage with your outputs is vital. This minor provides you with a conceptual understanding of how audiences use media and cultural products and teaches practical skills in conducting qualitative and quantitative audience research.

KCB102	Media Myth Busting 1
KCB105	Media Myth Busting 2
KCB203	Consumption Matters: Consumer Cultures and Identity
KCB301	Media Audiences

Communication for the Professions

Description: This minor provides you with

opportunity to understand the parameters of the journalism and professional communication fields.

Instructions: Choose any four (4) of the following five units:

KCB103	Strategic Speech Communication
KCB302	Political Communication
KCB304	Designing Communication Resources
KWB103	Persuasive Writing
KWB106	Corporate Writing and Editing

Creative Writing

Description: This minor aims to prepare you with skills and knowledge in the area of creative writing and to enhance your critical, analytical and peer-reviewing skills.

Instructions: Choose any four (4) of the following six units:

KWB101	Introduction to Creative Writing
KWB102	Media Writing
KWB104	Creative Writing: the Short Story
KWB107	Creative Non-Fiction
KWB207	Great Books: Creative Writing Classics
KWB313	Novel and Memoir

* Please note: KWB204 is permitted to count towards this unit set.

Dance Studies

Description: This minor provides the opportunity to approach dance as a subject for critical, analytical and contextual study.

Instructions: Choose any four (4) of the following five units:

KDB105	Architecture of the Body
KDB106	Dance Analysis
KDB110	Deconstructing Dance in History
KDB204	Australian Dance
KDB225	Music Theatre Skills

Digital Media

Description: This minor provides you with the opportunity to understand the guiding principles behind new modes of communication and creative industries practice.

Instructions: Choose any four (4) of the following five units:

KIB101	Visual Communication
KIB103	Introduction to Web Design and Development
KCB206	New Media: Internet, Self and Beyond
KCB207	Exploring New Media Worlds
KVB306	Video Art and Culture

Drama

Description: This minor provides you with introductory concepts and practices

underpinning contemporary performance-making.

Instructions: Choose any four (4) of the following six units:

KDB225	Music Theatre Skills
KTB103	Performing Skills 1: Character and Scene
KTB104	Performance Innovation
KTB106	Performing Skills 2: Style and Form
KTB204	Understanding Performance
KTB305	The Entrepreneurial Artist

Entertainment

Description: This minor provides you with an understanding of the characteristics of mainstream commercial culture that appeal to large audiences and an understanding both of business and creative processes.

BSB126	Marketing
KXB101	Introduction to Entertainment
KXB102	Global Entertainment
KXB201	Entertainment Practice: Balancing Creativity and Business

Note: KWB102 will be permitted to count towards this study package if completed in 2010 or earlier.

Fashion

Description: This minor will provide you with an in depth knowledge and understanding of the history, theory and context of international fashion.

KFB103	Introduction to Fashion
KFB106	Unspeakable Beauty: A History of Fashion and Style
KFB206	Fashion and Modernity
KFB207	Contemporary Fashion

Graphic Design

Description: This minor aims to prepare you with skills and knowledge in the area of visual design and communication for a range of print and electronic media contexts. It will provide you with a foundation in the conceptual and theoretical aspects of visual communication, graphic design and print media, and the technical skills required to apply them in studio projects.

Instructions: Choose any four (4) of the following five units:

KIB101	Visual Communication
KIB230	Interface and Information Design
KIB335	Typography and Illustration
KIB338	Print Media
KVB204	Graphic Design

Interactive and Visual Design

Description: This minor aims to provide you with a foundational understanding of the design

concepts and principles, practical skills and working methods needed by a contemporary designer of visual and interactive media, including an introduction to visual communication, print media, web and interactive media and temporal digital media formats.

KIB101	Visual Communication
KIB102	Visual Interactions
KIB103	Introduction to Web Design and Development
KIB104	Digital Media

Journalism

Description: This minor will introduce you to a range of key journalistic principles, approaches and writing styles.

KJB101	Digital Journalism
KJB120	Newswriting
KJB121	Journalistic Inquiry
KJB224	Feature Writing

Literature

Description: This minor will provide you with a thorough grounding in a range of texts, literary, cultural and popular.

Instructions: Choose any four (4) of the following six units:

KWB108	Introduction To Literary Studies
KWB207	Great Books: Creative Writing Classics
KWB209	Shakespeare, Then and Now
KWB210	Imagining the Americas: Contemporary American Literature and Culture
KWB308	Wonderlands: Literature and Culture in the 19th Century
KWB309	Popular Fictions, Popular Culture

* Please note: KWB307 is permitted to count towards this unit set. KWB109, KWB206 and KWB208 are permitted to count towards this unit set if completed in 2010 or earlier.

* KWB210 will be offered for the first time in semester 1 2012.

Modern and Popular Literature and Culture

Description: This minor will provide you with a thorough grounding in a range of modern, cultural and popular texts.

Instructions: Choose any four (4) of the following six units:

KWB109	Writing Australia
KWB206	Youth and Children's Writing
KWB208	Modern Times (Literature and Culture in the 20th Century)
KWB210	Imagining the Americas: Contemporary American Literature and Culture
KWB308	Wonderlands: Literature and Culture in the 19th Century
KWB309	Popular Fictions, Popular Culture

* Please note: KWB108 is permitted to count towards this unit set if completed in 2010 or earlier.

* KWB210 will be offered for the first time in semester 1 2012.

Music Studies

Description: This minor provides you with understandings of new directions in music across styles, genres, cultures, disciplines and beliefs.

Instructions: Choose any four (4) of the following five units:

KDB225	Music Theatre Skills
KMB003	Sex Drugs Rock 'N' Roll
KMB004	World Music
KMB107	Sound, Image, Text
KMB200	Music Scenes and Subcultures

* Please note: KMB002 is permitted to count towards this unit set.

Performance Events and Festivals

Description: This minor provides you with understandings and skills in creative industries performance and management.

Instructions: Choose any four (4) of the following units. Only one unit may be selected from BSB126, KCB103 or KWB106:

KTB101	20th Century Performance
KTB207	Staging Australia
KTB210	Creative Industries Management
KTB211	Creative Industries Events and Festivals
KTB306	Directing for Performance Events and Festivals
SELECT	One unit from either BSB126, KCB103 or KWB106:
BSB126	Marketing
KCB103	Strategic Speech Communication
KWB106	Corporate Writing and Editing

Professional Writing, Publishing and Editing

Description: The aim of this minor is to provide you with skills and knowledge in a variety of genres in the area of professional writing and to understand the demands of the writing and publishing industry.

Instructions: Choose any four (4) of the following five units:

KWB102	Media Writing
KWB103	Persuasive Writing
KWB106	Corporate Writing and Editing
KWB303	Writing and Publishing Industry
KWB304	Editing and Developing the Manuscript

Scenography

Description: This minor will provide you with the practical and theoretical skills associated with the scenographic arts. It has been

designed to deliver a learning model that imparts broad design related skills for live performance. The focus will be on the traditional arts of model making, text analysis and drafting, incorporating contemporary approaches to current scenographic demands in the industry. These include the creation and control of time based media content and the display of the moving image.

Note: This minor is only available to Creative Industries Faculty single degree and IF27 students.

KRB120	Scenography and the Art of Technical Theatre
KRB121	Visual Theatre
KRB220	The Scenographic Divide
KRB221	Intermedial Applications for the Theatre

Please note: KRB220 and KRB221 will be offered for the first time in 2012.

Screen Studies

Description: The aim of this minor is to provide students with an understanding of film and media, and their influence in social and cultural contexts.

Instructions: Choose any four (4) of the following five units:

KPB109	Film and TV History
KPB112	TV and Film Genres
KPB205	Documentary Theory and Practice
KPB206	International Cinema
KPB212	Australian Film and TV

* Please note: KPB203 is permitted to count towards this unit set.

Sound Design

Description: This minor introduces you to the practical world of sound production tools and techniques together with a secure theoretical underpinning.

Instructions: Choose any four (4) of the following five units:

KKB216	Graphical Development Environments for Media Interaction
KMB107	Sound, Image, Text
KMB119	Music and Sound Production 1
KMB129	Music and Sound Production 2
KMB252	Multi-Platform Sound Design

* Please note: Units completed as part of the Sound Studies minor (KKB004, KMB106, and KMB301) are permitted to towards this unit set if completed in 2010 or earlier.

Television

Description: The aim of this minor is to provide students with theoretical and practical understandings of television production, distribution and reception.

Instructions: Choose any four (4) of the following six units:

KPB104	Film and Television Production Resource Management
KPB110	The Movie, TV & New Media Business
KPB112	TV and Film Genres
KPB202	Film and Television Business Skills: Entrepreneurship and Investment
KPB303	Critical Thinking About Television
KPB313	How to be a Producer*

*This unit will be offered from 2012

Visual Arts Practice

Description: This minor introduces you to the essential principles of visual literacy. You will develop the fundamental skills of working with 2D and 3D media and understand the frameworks of display and audience engagement in the visual arts.

Instructions: Choose any four (4) of the following five units:

KVB104	Photomedia and Artistic Practice
KVB110	2D Media and Processes
KVB111	3D Media and Processes
KVB200	Exhibition and Display in the Visual Arts
KVB213	Graphic Investigation

Creative Industries Transitions to New Professional Environments Unit Options

A maximum of 48 credit points may be taken from the following units:

KKB341	Creative Industries Internship 1
KKB342	Creative Industries Internship 2
KKB345	Creative Industries Project 1
KKB346	Creative Industries Project 2
KKB347	Becoming A Researcher: Understandings, Skills and Practices
KKB350	Creative Industries International Study Tour

* Please note: KKB343 and KKB344 are permitted to count as Transitions to New Professional Environments Unit Options if completed in 2010 or earlier.

Creative Industries Faculty Undergraduate University Wide Unit Options (previously elective options)

Creative Industries Faculty Undergraduate University Wide Units

Please note: From 2010 elective units have been re-named Unit Options.

These unit offerings are current at the time of publication but are subject to change.

Rules for selecting Unit Options:

* you must obey any Unit Option rules as set out in your course requirements

* you cannot select a unit that forms part of the compulsory units of your course or the compulsory units of your chosen major area.

* you must have successfully completed any pre/co-requisite units applicable

* the offering of these units is subject to sufficient student enrolment numbers and staff availability

* some units are subject to quota restrictions

* KK33, KK34, KJ32, KM32, IX07, IX16 and IF27 students ONLY are permitted to select Unit Options from outside the Faculty of Creative Industries

Creative Writing & Literary Studies

KWB101	Introduction to Creative Writing
KWB102	Media Writing
KWB103	Persuasive Writing
KWB104	Creative Writing: the Short Story
KWB106	Corporate Writing and Editing
KWB107	Creative Non-Fiction
KWB108	Introduction To Literary Studies
KWB109	Writing Australia
KWB206	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
KWB309	Popular Fictions, Popular Culture

* Please note: KWB307 is permitted to count as a Unit Option if completed in 2009 or earlier.

* KWB210 will be offered for the first time in semester 1 2012.

Dance

KDB105	Architecture of the Body
KDB106	Dance Analysis
KDB108	World Dance
KDB109	Funk, Tap and all that Jazz
KDB110	Deconstructing Dance in History
KDB204	Australian Dance
KDB225	Music Theatre Skills

Entertainment

KXB101	Introduction to Entertainment
KXB102	Global Entertainment
KXB201	Entertainment Practice: Balancing Creativity and Business

Faculty

KKB101	Creative Industries: People and Practices
KKB102	Creative Industries: Making Connections
KKB216	Graphical Development Environments for

	Media Interaction
KKB345	Creative Industries Project 1
KKB346	Creative Industries Project 2

Fashion

KFB103	Introduction to Fashion
KFB106	Unspeakable Beauty: A History of Fashion and Style
KFB205	Fashion and Style Journalism
KFB206	Fashion and Modernity
KFB207	Contemporary Fashion
KFB208	Fashion Portfolio
KFB209	Ragtrade: Wholesaling Fashion

Film & Television

KPB101	Introduction to Film, TV and New Media Production
KPB104	Film and Television Production Resource Management
KPB109	Film and TV History
KPB110	The Movie, TV & New Media Business
KPB112	TV and Film Genres
KPB113	TV and Film Text Analysis
KPB205	Documentary Theory and Practice
KPB206	International Cinema
KPB207	Film and Television Scriptwriting
KPB303	Critical Thinking About Television

Please note the following unit changes:

*KPB102, KPB103, KPB106, KPB107, and KPB108 are permitted to count as Unit Options if completed in 2009 or earlier.

*KPB203 is permitted to count as a Unit Option if completed in 2010 or earlier.

*KPB104 is permitted to count as a Unit Option if completed in 2011 or earlier.

Interactive & Visual Design

KIB101	Visual Communication
KIB102	Visual Interactions
KIB103	Introduction to Web Design and Development
KIB104	Digital Media
KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion

Journalism

KJB101	Digital Journalism
KJB120	Newswriting
KJB121	Journalistic Inquiry
KJB224	Feature Writing

KJB239	Journalism Ethics and Issues
KJB280	International Journalism
KJB337	Public Affairs Reporting

Media & Communication

KCB101	Introduction to Media and Communication: Texts
KCB102	Media Myth Busting 1
KCB103	Strategic Speech Communication
KCB104	Media and Communications: Industries
KCB105	Media Myth Busting 2
KCB206	New Media: Internet, Self and Beyond
KCB207	Exploring New Media Worlds
KCB203	Consumption Matters: Consumer Cultures and Identity
KCB302	Political Communication

Music & Sound

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
KMB200	Music Scenes and Subcultures
KMB252	Multi-Platform Sound Design

* Please note: KMB002, KMB007, KMB104, KMB105, and KMB108 are permitted to count as Unit Options if completed in 2009 or earlier. KMB106 is permitted to count as a Unit Option if completed in 2010 or earlier.

Performance Studies

KRB120	Scenography and the Art of Technical Theatre
KRB220	The Scenographic Divide
KTB101	20th Century Performance
KTB103	Performing Skills 1: Character and Scene
KTB104	Performance Innovation
KTB106	Performing Skills 2: Style and Form
KTB204	Understanding Performance
KTB207	Staging Australia
KTB210	Creative Industries Management
KTB211	Creative Industries Events and Festivals

* Please note: KSB215 is permitted to count as Unit Options if completed in 2010 or earlier.

* KRB220 will be offered for the first time in 2012.

Visual Arts

KVB102	Modernism
KVB103	Australian Art
KVB104	Photomedia and Artistic Practice
KVB105	Drawing for Design
KVB106	Drawing for Animation
KVB108	Contemporary Asian Visual Culture
KVB110	2D Media and Processes
KVB111	3D Media and Processes
KVB211	Post 1945 Art
KVB212	Australian Art, Architecture and Design
KVB213	Graphic Investigation
KVB304	Contemporary Art Issues
KVB306	Video Art and Culture
KVB307	Theories of Spatial Culture

Network Systems Major

Compulsory Units

INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB255	Security

Electives

INB312	Enterprise Systems Applications
INB365	Systems Programming
INB353	Wireless and Mobile Networks
INB355	Cryptology and Protocols

Software Architecture Major

Compulsory Units

INB340	Database Design
INB371	Data Structures and Algorithms
INB372	Agile Software Development

Electives

	Choose 3 Electives
INB341	Software Development With Oracle
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB272	Interaction Design
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB365	Systems Programming
INB370	Software Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
MAB281	Mathematics for Computer Graphics

MAB281 is only to be used as a prereq for INB381

Information Systems Major

Compulsory Units	
INB311	Enterprise Systems
INB340	Database Design
INB220	Business Analysis

IS Elective Units	
INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining and Data Analysis
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB124	Information Systems Development
INB221	Technology Management

Potential Careers:

Advertising Professional, Animator, Artist, Arts Administrator, Composer, Computer Game Programmer, Computer Games Developer, Creative Writer, D.J, Digital Composer, Film Composer, Film/Television Producer, Information Officer, Information Security Specialist, Internet Professional, Marketing Officer/Manager, Media Industry Specialist, Multimedia Designer, Music Agent/Manager, Music Publisher, Music Sampler, Music Teacher, Music Technologist, Musical Director, Musician, Organisational Communication Specialist, Public Relations Officer/Consultant, Recording Engineer, Song Writer, Sound and Music Producer, Sound Designer, Sound/Audio Engineer, Technical Officer, Web Designer.

Bachelor of Information Technology/Bachelor of Mathematics (IX29)

Year offered: 2011
Admissions: No
CRICOS code: 059226F
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,027 per semester (indicative)
International Fees (indicative): 2011: $11,375 (indicative) per semester
QTAC code: 419552
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA) and Maths B (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Course coordinator: Dr Gary Carter (Mathematics Major), Mr Richard Thomas (Information Systems Major)
Campus: Gardens Point

Course Update

From semester one, 2009 this course will not be available for commencing students. IX29 will only be available for continuing students. New students - please refer to IX57. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Professional Recognition

On graduation, students will be eligible for membership of the Mathematical Society of Australia, the Statistical Society of Australia Inc and, depending on unit selection, the Australian Society for Operations Research. Graduates of the Bachelor of Information Technology meet the knowledge requirement for admission to the Australian Computer Society.

Course Design

This double degree comprises 384 credit points with 192 credit points from Information Technology and 192 credit points form Mathematics. All majors in the Bachelor of Information Technology are available.

Cooperative Education Program

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

Find out more about the Cooperative Education Program.

Mathematics Bursaries

Students enrolled in this course can apply for industry-sponsored bursaries. These bursaries are awarded to Australian citizens or permanent residents on a competitive basis. Applications should be submitted by 1 December of the year preceding entry to the course. For further information see www.maths.qut.edu.au

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 on deferment.

Unit Incompatibility/Translation Information

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

Further Information

For further information about this course, please contact

Gary Carter (Mathematics) or Mr Richard Thomas (Information Systems)
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Mathematics Units

Level 2 Units	
MAB311	Advanced Calculus
MAB312	Linear Algebra
MAB313	Mathematics of Finance
MAB314	Statistical Modelling 2
MAB315	Operations Research 2
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB420	Computational Mathematics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation
	Note: MAB311 Advanced Calculus and MAB312 Linear Algebra are mandatory units.

Level 3 Units - at least 4 units must be selected	
MAB521	Applied Mathematics 3
MAB522	Computational Mathematics 3
MAB524	Statistical Inference
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB536	Time Series Analysis
MAB613	Partial Differential Equations
MAB623	Financial Mathematics
MAB624	Applied Statistics 3

MAB625	Operations Research 3B
MAB640	Industry Project
MAB672	Advanced Mathematical Modelling
	Note: MAB523 Introduction to Quality Management and MAB621 Discrete Mathematics do not contribute to the mandatory 48 credit points minimum from Level 3 Mathematics units.

Intelligent Systems Major (pre 2008)

Compulsory Units

INB335	Information Resources
INB342	Enterprise Data Mining and Data Analysis
INB371	Data Structures and Algorithms
INB860	Computational Intelligence for Control and Embedded Systems
	IT Elective (INB383 and INB343 recommended)
	IT Elective
	6 Units required

Network Systems Major

Compulsory Units

INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB255	Security

Electives

INB312	Enterprise Systems Applications
INB365	Systems Programming
INB353	Wireless and Mobile Networks
INB355	Cryptology and Protocols

Software Architecture Major

Compulsory Units

INB340	Database Design
INB371	Data Structures and Algorithms
INB372	Agile Software Development

Electives

	Choose 3 Electives
INB341	Software Development With Oracle
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB272	Interaction Design
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB365	Systems Programming

INB370	Software Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
MAB281	Mathematics for Computer Graphics
	MAB281 is only to be used as a prereq for INB381

Course structure

This course has been discontinued. Currently enrolled students should check the Course Summary Sheet (via QUT Virtual) for enrolment and unit information.

Potential Careers:

Actuary, Computer Game Programmer, Data Communications Specialist, Database Manager, Market Research Manager, Mathematician, Network Administrator, Network Manager, Programmer, Quantitative Analyst, Software Engineer, Statistician, Systems Analyst.

Bachelor of Applied Science / Bachelor of Business (IX31)

Year offered: 2011
Admissions: Yes
CRICOS code: 042263G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,358 per semester (indicative)
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419832
Past rank cut-off: 81
Past OP cut-off: 10
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr Perry Hartfield (Science and Technology); Director of Undergraduate Studies, QUT Business School; email: bus@qut.edu.au
Discipline coordinator: Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr John Chen (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Henri Burgers (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations); Science Discipline Coordinator details are listed under further information.
Campus: Gardens Point

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.

Career Outcomes

With a double degree in business and science you could gain employment as a consultant, marketer or project manager within firms developing and taking scientific research to the marketplace. You will also develop the entrepreneurial skills necessary to sell your abilities to a range of employers including government agencies, private enterprise and not-for-profit organisations.

Professional Recognition

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).

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 on deferment.

Further Information

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

Science Coordinator
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Email: p.hartfield@qut.edu.au

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Forensic Science
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Geoscience
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Microbiology
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Email: c.knox@qut.edu.au

Physics
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Phone: +61 7 3138 1584
Email: g.michael@qut.edu.au

Full Time Course structure

Year 1 Semester 1
Business School Core Unit
Business School Core Unit
Science Faculty Unit
Science Faculty Unit

Year 1 Semester 2
Business School Core Unit
Business School Core Unit
Science Faculty Unit
Science Faculty Unit

Year 2 Semester 1
Business School Core Unit
Business School Core Unit
Science Faculty Unit
Science Faculty Unit

Year 2 Semester 2
Business School Core Unit
Business School Major Unit
Science Faculty Unit
Science Faculty Unit

Year 3 Semester 1
Business School Major Unit
Business School Major Unit
Science Faculty Unit
Science Faculty Unit

Year 3 Semester 2
Business School Major Unit
Business School Major Unit
Science Faculty Unit
Science Faculty Unit

Year 4 Semester 1
Business School Major Unit
Business School Major Unit
Science Faculty Unit
Science Faculty Unit

Year 4 Semester 2
Business School Major Unit
Business School Major Unit
Science Faculty Unit
Science Faculty Unit

Accountancy Major

Year 1 Semester 1
BSB110   Accounting
BSB115   Management

Year 1 Semester 2
BSB124   Working in Business
BSB126   Marketing

Year 2 Semester 1
BSB111   Business Law and Ethics
BSB113   Economics

Year 2 Semester 2
AYB200   Financial Accounting
AYB225   Management Accounting

Year 3 Semester 1
EFB210   Finance 1
AYB221   Computerised Accounting Systems

Year 3 Semester 2
AYB219   Taxation Law
AYB340   Company Accounting

Year 4 Semester 1
AYB230   Corporations Law
AYB321   Strategic Management Accounting

Year 4 Semester 2
AYB301   Audit and Assurance
AYB311   Financial Accounting Issues

Advertising Major

Year 1 Semester 1
BSB126   Marketing
BSB113   Economics

Year 1 Semester 2
BSB110   Accounting
BSB115   Management

Year 2 Semester 1
BSB124   Working in Business
BSB119   Global Business

Year 2 Semester 2
AMB200   Consumer Behaviour
AMB220   Advertising Theory and Practice

Year 3 Semester 1

BSB111	Business Law and Ethics
AMB201	Marketing and Audience Research

Year 3 Semester 2

AMB318	Advertising Copywriting
AMB319	Media Planning

Year 4 Semester 1

AMB320	Advertising Management
AMB330	Advertising Planning Portfolio

Year 4 Semester 2

AMB339	Advertising Campaigns
MGB223	Entrepreneurship and Innovation

Economics Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB110	Accounting
BSB124	Working in Business

Year 2 Semester 1

BSB111	Business Law and Ethics
MGB223	Entrepreneurship and Innovation

Year 2 Semester 2

EFB222	Quantitative Methods For Economics and Finance
EFB223	Economics 2

Year 3 Semester 1

EFB330	Intermediate Macroeconomics
EFB331	Intermediate Microeconomics

Year 3 Semester 2

	Choice units or remaining Business School Core Units
	Choice units or remaining Business School Core Units

Year 4 Semester 1

	Choice units or remaining Business School Core Units
	Choice units or remaining Business School Core Units

Year 4 Semester 2

EFB338	Contemporary Application of Economic Theory
	Choice units or remaining Business School Core Units

Choice units

	Choose any three of the following:
EFB332	Applied Behavioural Economics
EFB333	Introductory Econometrics
EFB334	Environmental Economics and Policy
EFB336	International Economics
EFB337	Game Theory and Applications

Remaining Business Core Units

	Students must complete both remaining Business School Core Units
BSB119	Global Business
BSB126	Marketing

Finance Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB119	Global Business
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

EFB210	Finance 1
EFB222	Quantitative Methods For Economics and Finance

Year 3 Semester 2

EFB201	Financial Markets
EFB307	Finance 2

Year 4 Semester 1

EFB223	Economics 2
EFB335	Investments

Year 4 Semester 2

EFB312	International Finance
EFB340	Finance Capstone

Human Resource Management Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB119	Global Business
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

MGB207	Human Resource Issues and Strategy
MGB220	Business Research Methods

Year 3 Semester 2

MGB200	Leading Organisations
MGB201	Contemporary Employment Relations

Year 4 Semester 1

MGB331	Learning and Development in Organisations
MGB339	Performance and Reward

Year 4 Semester 2

MGB320	Recruitment and Selection
MGB370	Personal and Professional Development

International Business Major

Year 1 Semester 1

BSB119	Global Business
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB113	Economics
BSB124	Working in Business

Year 2 Semester 2

BSB111	Business Law and Ethics
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

AYB227	International Accounting
MGB225	Intercultural Communication and Negotiation Skills

Year 3 Semester 2

AMB210	Importing and Exporting
EFB240	Finance for International Business

Year 4 Semester 1

AMB303	International Logistics
AMB336	International Marketing

Year 4 Semester 2

MGB340	International Business in the Asia-Pacific
AMB369	International Business Strategy

Management Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB119	Global Business
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

MGB201	Contemporary Employment Relations
MGB210	Managing Operations

Year 3 Semester 2

MGB200	Leading Organisations
MGB225	Intercultural Communication and Negotiation Skills

Year 4 Semester 1

MGB309	Strategic Management
MGB324	Managing Business Growth

Year 4 Semester 2

MGB310	Sustainability in A Changing Environment
MGB335	Project Management

Marketing Major

Year 1 Semester 1

BSB113	Economics
BSB126	Marketing

Year 1 Semester 2

BSB111	Business Law and Ethics
BSB115	Management

Year 2 Semester 1

BSB119   Global Business

BSB124   Working in Business

Year 2 Semester 2

BSB110   Accounting

MGB223   Entrepreneurship and Innovation

Year 3 Semester 1

AMB200   Consumer Behaviour

AMB201   Marketing and Audience Research

Year 3 Semester 2

AMB202   Integrated Marketing Communication

AMB240   Marketing Planning and Management

Year 4 Semester 1

AMB335   E-marketing Strategies

AMB340   Services Marketing

Year 4 Semester 2

AMB336   International Marketing

AMB359   Strategic Marketing

Public Relations Major

Year 1 Semester 1

BSB119   Global Business

BSB126   Marketing

Year 1 Semester 2

BSB110   Accounting

BSB115   Management

Year 2 Semester 1

BSB113   Economics

BSB124   Working in Business

Year 2 Semester 2

AMB263   Introduction To Public Relations

AMB264   Public Relations Techniques

Year 3 Semester 1

AMB201   Marketing and Audience Research

BSB111   Business Law and Ethics

Year 3 Semester 2

AMB372   Public Relations Planning

AMB373   Corporate Communication

Year 4 Semester 1

AMB374   Global Public Relations Cases

AMB375   Public Relations Management

Year 4 Semester 2

AMB379   Public Relations Campaigns

MGB223   Entrepreneurship and Innovation

Course structure - Major in Biochemistry

Year 1, Semester 1

SCB111   Chemistry 1

SCB112   Cellular Basis of Life

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

SCB120   Plant and Animal Physiology

SCB121   Chemistry 2

Year 2, Semester 1

SCB110   Science Concepts and Global Systems

Plus either:

MAB101   Statistical Data Analysis 1

Or

MAB105   Preparatory Mathematics

Year 2, Semester 2

SCB122   Cell and Molecular Biology

SCB123   Physical Science Applications

Year 3, Semester 1

LQB381   Biochemistry: Structure and Function

LQB383   Molecular and Cellular Regulation

Year 3, Semester 2

LQB481   Biochemical Pathways and Metabolism

LQB483   Molecular Biology Techniques

Year 4, Semester 1

LQB581   Functional Biochemistry

LQB582   Biomedical Research Technologies

Year 4, Semester 2

LQB681   Biochemical Research Skills

LQB682   Protein Biochemistry and Bioengineering

Course structure - Major in Biotechnology

Year 1, Semester 1

SCB111   Chemistry 1

SCB112   Cellular Basis of Life

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

SCB120   Plant and Animal Physiology

SCB121   Chemistry 2

Year 2, Semester 1

SCB110   Science Concepts and Global Systems

Plus either:

MAB101   Statistical Data Analysis 1

Or

MAB105   Preparatory Mathematics

Year 2, Semester 2

SCB122   Cell and Molecular Biology

SCB123   Physical Science Applications

Year 3, Semester 1

LQB381   Biochemistry: Structure and Function

LQB383   Molecular and Cellular Regulation

Year 3, Semester 2

LQB483   Molecular Biology Techniques

LQB484   Introduction to Genomics and Bioinformatics

Year 4, Semester 1

TWO units selected from:

LQB583   Genetic Research Technology

LQB584   Medical Cell Biology

LQB585   Plant Genetic Manipulation

Year 4, Semester 2

TWO units selected from:

LQB682   Protein Biochemistry and Bioengineering

LQB684   Medical Biotechnology

LQB685   Plant Microbe Interactions

Course structure - Major in Chemistry

Year 1, Semester 1

SCB111   Chemistry 1

Plus either:

MAB101   Statistical Data Analysis 1

Or

MAB105   Preparatory Mathematics

Year 1, Semester 2 (Chemistry Pre-Major Strand)

SCB112   Cellular Basis of Life

SCB121   Chemistry 2

Year 2, Semester 1

MAB120   Algebra and Calculus

SCB110   Science Concepts and Global Systems

Year 2, Semester 2

SCB123   Physical Science Applications

SCB131   Experimental Chemistry

Year 3, Semester 1

PQB312   Analytical Chemistry For Scientists and Technologists

PQB331   Structure and Bonding

Year 3, Semester 2

PQB401   Reaction Kinetics, Thermodynamics and Mechanisms

PQB442   Chemical Spectroscopy

Year 4, Semester 1

PQB502   Advanced Physical Chemistry

PQB531   Organic Mechanisms and Synthesis

Year 4, Semester 2

PQB631   Advanced Inorganic Chemistry

PQB642   Chemical Research

Course structure - Major in Ecology

Year 1, Semester 1

SCB111   Chemistry 1

SCB112   Cellular Basis of Life

Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)

SCB120   Plant and Animal Physiology

SCB122   Cell and Molecular Biology

Year 2, Semester 1

SCB110   Science Concepts and Global Systems

Plus either:

MAB101   Statistical Data Analysis 1

Or

MAB105   Preparatory Mathematics

Year 2, Semester 2

NQB201   Planet Earth

NQB202   History of Life on Earth

Year 3, Semester 1

NQB302   Earth Surface Systems

NQB321   Ecology

Year 3, Semester 2

NQB421   Experimental Design

NQB422   Genetics and Evolution

Year 4, Semester 1

NQB521   Population Genetics and Molecular Ecology

NQB523   Population Management

Year 4, Semester 2

NQB622   Conservation Biology

NQB623   Ecological Systems

Course structure - Major in Environmental Science

Year 1, Semester 1

SCB111   Chemistry 1

SCB112	Cellular Basis of Life

Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

NQB202	History of Life on Earth
SCB123	Physical Science Applications

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2

NQB403	Soils and the Environment
NQB421	Experimental Design

Year 4, Semester 1

NQB501	Environmental Modelling
NQB502	Field Methods in Natural Resource Sciences

Year 4, Semester 2

NQB601	Sustainable Environmental Management
NQB602	Environmental Chemistry

Course structure - Major in Forensic Science

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2 (Forensic Science Pre-Major Strand)

SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

SCB123	Physical Science Applications

SCB131	Experimental Chemistry

Year 3, Semester 1

LQB383	Molecular and Cellular Regulation
SCB384	Forensic Sciences - From Crime Scene to Court

Year 3, Semester 2

JSB979	Forensic Scientific Evidence
PQB312	Analytical Chemistry For Scientists and Technologists

Year 4, Semester 1

PQB513	Instrumental Analysis
PQB584	Forensic Physical Evidence

Year 4, Semester 2

LQB680	Forensic DNA Profiling
PQB684	Forensic Analysis

Course structure - Major in Geoscience

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2 (Geoscience Pre-Major Strand)

NQB201	Planet Earth
SCB123	Physical Science Applications

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

NQB202	History of Life on Earth
SCB222	Exploration of the Universe

Year 3, Semester 1

NQB311	Mineralogy
NQB314	Sedimentary Geology

Year 3, Semester 2

NQB411	Petrology of Igneous and Metamorphic Rocks
NQB412	Structural Geology and Field Methods

Year 4, Semester 1

NQB502	Field Methods in Natural Resource Sciences
NQB513	Geophysics

Year 4, Semester 2

| NQB613 | Plate Tectonics |
| NQB615 | Geochemistry |

Course structure - Major in Microbiology

Year 1, Semester 1
| SCB111 | Chemistry 1 |
| SCB112 | Cellular Basis of Life |

Year 1, Semester 2 (Life Sciences Pre-Major Strand)
| SCB120 | Plant and Animal Physiology |
| SCB121 | Chemistry 2 |

Year 2, Semester 1
SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2
| SCB122 | Cell and Molecular Biology |
| SCB123 | Physical Science Applications |

Year 3, Semester 1
| LQB381 | Biochemistry: Structure and Function |
| LQB386 | Microbial Structure and Function |

Year 3, Semester 2
| LQB483 | Molecular Biology Techniques |
| LQB486 | Clinical Microbiology 1 |

Year 4, Semester 1
| LQB586 | Clinical Microbiology 2 |
| LQB587 | Applied Microbiology 1: Water, Air and Soil |

Year 4, Semester 2
| LQB686 | Microbial Technology and Immunology |
| LQB687 | Applied Microbiology 2: Food and Quality Assurance |

Course structure - Major in Physics

Year 1, Semester 1
MAB121	Calculus and Differential Equations
	Or
MAB120	Algebra and Calculus
SCB111	Chemistry 1
	Students who have completed only Maths B are required to take MAB120. Students who have completed both Maths B and Maths C should take MAB121.

Year 1, Semester 2 (Physics Pre-Major Strand)
| MAB122 | Algebra and Analytic Geometry |

| PQB250 | Mechanics and Electromagnetism |

Year 2, Semester 1
| SCB110 | Science Concepts and Global Systems |
| SCB112 | Cellular Basis of Life |

Year 2, Semester 2
MAB220	Computational Mathematics 1
	Or
MAB121	Calculus and Differential Equations
PQB251	Waves and Optics

Year 3, Semester 1
| MAB311 | Advanced Calculus |
| PQB350 | Thermodynamics of Solids and Gases |

Year 3, Semester 2
| PQB450 | Energy, Fields and Radiation |
| PQB451 | Electronics and Instrumentation |

Year 4, Semester 1
| PQB550 | Quantum and Condensed Matter Physics |
| PQB551 | Physical Analytical Techniques |

Year 4, Semester 2
| PQB650 | Advanced Theoretical Physics |
| PQB651 | Experimental Physics |

Accountancy Major - Students who commenced in 2007-2008

Year 1 Semester 1
| BSB110 | Accounting |
| BSB115 | Management |

Year 1 Semester 2
BSB114	now replaced by BSB124 Working in Business
BSB126	Marketing
	or
BSB119	Global Business

Year 2 Semester 1
| BSB111 | Business Law and Ethics |
| BSB113 | Economics |

Year 2 Semester 2
| AYB200 | Financial Accounting |
| AYB230 | Corporations Law |

Year 3 Semester 1
| AYB225 | Management Accounting |
| AYB340 | Company Accounting |

Year 3 Semester 2

AYB219	Taxation Law
AYB221	Computerised Accounting Systems

Year 4 Semester 1

AYB301	Audit and Assurance
AYB321	Strategic Management Accounting
	or
AYB311	Financial Accounting Issues

Year 4 Semester 2

AYB339	Accountancy Capstone
EFB210	Finance 1

International Business Major - Students who commenced in 2007-2008

Year 1 Semester 1

BSB119	Global Business
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB113	Economics
BSB124	Working in Business

Year 2 Semester 2

BSB111	Business Law and Ethics
EFB240	Finance for International Business

Year 3 Semester 1

MGB225	Intercultural Communication and Negotiation Skills
IBB208	Please contact the School of AMPR regarding alternative unit
	or
IBB217	Please contact the School of AMPR regarding alternative unit

Year 3 Semester 2

AMB210	Importing and Exporting
MGB340	International Business in the Asia-Pacific

Year 4 Semester 1

AMB369	International Business Strategy
IBB304	Please contact the School of AMPR regarding alternative unit

Year 4 Semester 2

AMB303	International Logistics
AMB336	International Marketing

Public Relations Major - Students who commenced in

2007-2008

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
BSB114	now replaced by BSB124 Working in Business

Year 2 Semester 2

BSB111	Business Law and Ethics
BSB113	Economics

Year 3 Semester 1

AMB202	Integrated Marketing Communication
AMB260	now replaced by AMB263 Introduction to Public Relations
AMB263	Introduction To Public Relations

Year 3 Semester 2

AMB261	Please contact the School of AMPR regarding alternative unit
AMB262	Please contact the School of AMPR regarding alternative unit

Year 4 Semester 1

AMB373	Corporate Communication
AMB374	Global Public Relations Cases

Year 4 Semester 2

AMB379	Public Relations Campaigns
AMB375	Public Relations Management

Human Resource Management Major - Students who commenced in 2007-2008

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB114	now replaced by BSB124 Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB119	Global Business

MGB207   Human Resource Issues and Strategy

Year 3 Semester 1

MGB220   Business Research Methods
          HRM Option Unit

Year 3 Semester 2

MGB200   Leading Organisations
          HRM Option Unit

Year 4 Semester 1

MGB331   Learning and Development in Organisations
MGB339   Performance and Reward

Year 4 Semester 2

MGB320   Recruitment and Selection
          HRM Option Unit

HRM Option Unit List

          Plus 3 units from the following list:
MGB201   Contemporary Employment Relations
MGB210   Managing Operations
MGB212   Sustainability in a Changing Environment
MGB309   Strategic Management
MGB314   Organisational Consulting and Change
MGB335   Project Management
MGB370   Personal and Professional Development
          HRM students must choose three units from
          the above list (one must be a Level 3 unit)

Management Major - Students who commenced in 2007-2008

Year 1 Semester 1

BSB113   Economics
BSB115   Management

Year 1 Semester 2

BSB114   now replaced by BSB124 Working in Business
BSB126   Marketing

Year 2 Semester 1

BSB110   Accounting
BSB111   Business Law and Ethics

Year 2 Semester 2

BSB119   Global Business
MGB200   Leading Organisations

Year 3 Semester 1

MGB210   Managing Operations
MGB223   Entrepreneurship and Innovation

Year 3 Semester 2

MGB212   Sustainability in a Changing Environment
          Management Option Unit

Year 4 Semester 1

MGB309   Strategic Management
          Management Option Unit

Year 4 Semester 2

MGB335   Project Management
          Management Option Unit

Management Option Unit List

          Plus 3 units from the following list:
MGB201   Contemporary Employment Relations
MGB218   Managing Business Growth
MGB225   Intercultural Communication and Negotiation Skills
MGB314   Organisational Consulting and Change
MGB370   Personal and Professional Development
          Management students must choose three units
          from the above list (one must be a Level 3
          unit).

Potential Careers:

Academic, Account Executive, Accountant, Advertising Professional, Analytical Chemist, Astrophysicist, Banker, Banking and Finance Professional, Biochemist, Biologist, Biomechanical Engineer, Biomedical Engineer, Biotechnologist, Business Analyst, Chemist, Chemist Industrial, Clinical Laboratory Scientist, Coastal Scientist, Conservation Biologist, Ecologist, Economist, Environmental Scientist, Estimator, Exchange Student, Financial Advisor/Analyst, Financial Project Manager, Forensic Scientist, Funds Manager, Geologist, Geophysicist, Geoscientist, Government Officer, Health Physicist, Home Economist, Human Resource Developer, Human Resource Manager, Hydrogeologist, Immunologist, Industrial Chemist, International Business Specialist, Investment Manager, Laboratory Technician (Chemistry), Manager, Marine Scientist, Marketing Officer/Manager, Medical Biotechnologist, Medical Physicist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Physicist, Plant Biotechnologist, Policy Officer, Population Ecologist, Programmer, Public Relations Officer/Consultant, Public Servant, Stockbroker, Virologist.

Bachelor of Business/Bachelor of Information Technology (IX33)

Year offered: 2011
Admissions: No
CRICOS code: 059595C
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $4,209 per semester (indicative)
International Fees (indicative): 2011: $10,875 (indicative) per semester
QTAC code: 419202
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA), Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Course coordinator: Director of Undergraduate Studies, QUT Business School; email: bus@qut.edu.au; Associate Professor Richard Thomas (Science and Technology)
Discipline coordinator: Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr John Chen (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Henri Burgers (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

Course structure

This course has been discontinued. Currently enrolled students should check with the relevant Faculty for course progression.

Information Systems Major

Compulsory Units

INB311	Enterprise Systems
INB340	Database Design
INB220	Business Analysis

IS Elective Units

INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining and Data Analysis
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB124	Information Systems Development
INB221	Technology Management

Network Systems Major

Compulsory Units

INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB255	Security

Electives

INB312	Enterprise Systems Applications
INB365	Systems Programming
INB353	Wireless and Mobile Networks
INB355	Cryptology and Protocols

Software Architecture Major

Compulsory Units

INB340	Database Design
INB371	Data Structures and Algorithms
INB372	Agile Software Development

Electives

	Choose 3 Electives
INB341	Software Development With Oracle
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB272	Interaction Design
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB365	Systems Programming
INB370	Software Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
MAB281	Mathematics for Computer Graphics
	MAB281 is only to be used as a prereq for INB381

Accountancy Major

Year 1 Semester 1

BSB110	Accounting
BSB115	Management

Year 1 Semester 2

BSB123	Data Analysis
BSB124	Working in Business

Year 2 Semester 1

BSB111	Business Law and Ethics
BSB113	Economics

Year 2 Semester 2

AYB200	Financial Accounting

AYB230	Corporations Law

Year 3 Semester 1

AYB225	Management Accounting
AYB340	Company Accounting

Year 3 Semester 2

AYB219	Taxation Law
AYB221	Computerised Accounting Systems

Year 4 Semester 1

AYB301	Audit and Assurance
AYB311	Financial Accounting Issues
	OR
AYB321	Strategic Management Accounting

Year 4 Semester 2

EFB222	Quantitative Methods For Economics and Finance
EFB210	Finance 1

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Advertising Major

Year 1 Semester 1

BSB123	Data Analysis
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB119	Global Business
BSB124	Working in Business

Year 2 Semester 2

BSB111	Business Law and Ethics
BSB113	Economics

Year 3 Semester 1

AMB200	Consumer Behaviour
AMB220	Advertising Theory and Practice

Year 3 Semester 2

AMB318	Advertising Copywriting
AMB319	Media Planning

Year 4 Semester 1

AMB320	Advertising Management
AMB330	Advertising Planning Portfolio

Year 4 Semester 2

AMB339	Advertising Campaigns
AMB202	Integrated Marketing Communication

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Banking and Finance Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB123	Data Analysis
BSB119	Global Business

Year 3 Semester 1

EFB222	Quantitative Methods For Economics and Finance
EFB210	Finance 1

Year 3 Semester 2

EFB223	Economics 2
EFB307	Finance 2

Year 4 Semester 1

EFB333	Introductory Econometrics
EFB335	Investments

Year 4 Semester 2

EFB312	International Finance
EFB201	Financial Markets

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Economics Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business

BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
EFB223	Economics 2

Year 2 Semester 2

BSB123	Data Analysis
BSB119	Global Business

Year 3 Semester 1

EFB331	Intermediate Microeconomics
EFB330	Intermediate Macroeconomics

Year 3 Semester 2

EFB222	Quantitative Methods For Economics and Finance
EFB328	Public Economics and Finance

Year 4 Semester 1

BSB111	Business Law and Ethics
EFB200	Applied Regression Analysis

Year 4 Semester 2

EFB338	Contemporary Application of Economic Theory
EFB314	International Trade and Economic Competitiveness

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Human Resource Management Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB123	Data Analysis
BSB119	Global Business

Year 3 Semester 1

MGB207	Human Resource Issues and Strategy
MGB220	Business Research Methods

Year 3 Semester 2

MGB200	Leading Organisations
	HRM Option Unit

Year 4 Semester 1

MGB331	Learning and Development in Organisations
MGB339	Performance and Reward

Year 4 Semester 2

MGB320	Recruitment and Selection
	HRM Option Unit

HRM Option Unit List

	HRM students must choose two units from the above list (one must be a Level 3 unit).
MGB201	Contemporary Employment Relations
MGB210	Managing Operations
MGB310	Sustainability in A Changing Environment
MGB309	Strategic Management
MGB314	Organisational Consulting and Change
MGB370	Personal and Professional Development
MGB335	Project Management

Important Note:

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

International Business Major

Year 1 Semester 1

BSB126	Marketing
BSB119	Global Business

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB123	Data Analysis
BSB124	Working in Business

Year 2 Semester 2

BSB111	Business Law and Ethics
BSB113	Economics

Year 3 Semester 1

EFB240	Finance for International Business
IBB217	Asian Business Development
	OR
IBB208	European Business Development

Year 3 Semester 2

AMB210	Importing and Exporting
IBB317	replaced by MGB340 International Business in

the Asia-Pacific

OR

IBB308   replaced by MGB340 International Business in the Asia-Pacific

Year 4 Semester 1

AMB336   International Marketing

MGB225   Intercultural Communication and Negotiation Skills

Year 4 Semester 2

AMB303   International Logistics

AMB369   International Business Strategy

Important Note:

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Management Major

Year 1 Semester 1

BSB113   Economics

BSB115   Management

Year 1 Semester 2

BSB124   Working in Business

BSB126   Marketing

Year 2 Semester 1

BSB110   Accounting

BSB111   Business Law and Ethics

Year 2 Semester 2

MGB200   Leading Organisations

BSB123   Data Analysis

Year 3 Semester 1

MGB210   Managing Operations

MGB223   Entrepreneurship and Innovation

Year 3 Semester 2

BSB119   Global Business

MGB310   Sustainability in A Changing Environment

Year 4 Semester 1

MGB309   Strategic Management

         Management Option Unit

Year 4 Semester 2

         Management Option Unit

MGB335   Project Management

Management Option Unit List

Management students must choose two from the following list (one must be a Level 3 unit):

MGB201   Contemporary Employment Relations

MGB324   Managing Business Growth

MGB314   Organisational Consulting and Change

MGB370   Personal and Professional Development

MGB225   Intercultural Communication and Negotiation Skills

Important Note:

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Marketing Major

Year 1 Semester 1

BSB123   Data Analysis

BSB126   Marketing

Year 1 Semester 2

BSB110   Accounting

BSB115   Management

Year 2 Semester 1

BSB124   Working in Business

BSB119   Global Business

Year 2 Semester 2

BSB111   Business Law and Ethics

BSB113   Economics

Year 3 Semester 1

AMB200   Consumer Behaviour

AMB240   Marketing Planning and Management

Year 3 Semester 2

AMB201   Marketing and Audience Research

AMB335   E-marketing Strategies

Year 4 Semester 1

AMB340   Services Marketing

AMB202   Integrated Marketing Communication

Year 4 Semester 2

AMB359   Strategic Marketing

AMB252   Business Decision Making

         OR

AMB336   International Marketing

Important Note:

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Public Relations Major

Year 1 Semester 1

BSB123   Data Analysis

BSB126   Marketing

Year 1 Semester 2

BSB110   Accounting

BSB115   Management

Year 2 Semester 1

BSB119   Global Business

BSB124   Working in Business

Year 2 Semester 2

BSB111   Business Law and Ethics

BSB113   Economics

Year 3 Semester 1

AMB201   Marketing and Audience Research

AMB263   Introduction To Public Relations

Year 3 Semester 2

AMB261   Media Relations and Publicity

AMB262   Public Relations Writing

Year 4 Semester 1

AMB374   Global Public Relations Cases

AMB360   Corporate Communication Management

Year 4 Semester 2

AMB379   Public Relations Campaigns

AMB371   Corporate Communication Strategies

Important Note:

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course Updates - List of re-coded and replacement Business units

Faculty Core units

BSB114   is replaced by BSB124 Working in Business

BSB115   now retitled BSB115 Management

BSB119   now retitled BSB119 Global Business

BSB122   is replaced by BSB123 Data Analysis

Accountancy Core units

AYB121   is now AYB200 Financial Accounting AYB121

AYB220   is now AYB340 Company Accounting AYB220

AYB301   now retitled AYB301 Audit and Assurance

Advertising Core units

AMB221   is now AMB318 Advertising Copywriting

AMB222   is now AMB319 Media Planning

AMB321   is now AMB339 Advertising Campaigns

Banking and Finance Core units

EFB101   is replaced by EFB222 Quantitative Methods for Economics and Finance

EFB102   now retitled EFB223 Economics 2

Economics Core units

EFB101   is replaced by EFB222 Quantitative Methods for Economics and Finance

EFB102   now retitled EFB223 Economics 2

EFB202   is replaced by EFB330 Intermediate Macroeconomics

EFB211   is replaced by EFB331 Intermediate Microeconomics

EFB314   is replaced by EFB336 International Economics

EFB329   is now EFB338 Contemporary Application of Economic

Electronic Business Core units

BSB212   is replaced by AYB114 Business Technologies

BSB213   is replaced by AYB115 Governance Issus and Fraud

BSB314   is replaced by Forensic and Business Intelligence

ITB233   is now INB312 Enterprise Systems Application

ITB823   is now INB830 Web Sites for E-Commerce

ITB239   is now INB342 Enterprise Data Mining

Human Resource Management Core units

MGB220   now retitled MGB220 Business Research Methods

MGB221   is now MGB339 Performance and Reward

International Business Core units

IBB202   is replaced by EFB240 Finance for International Business

IBB208   IBB208 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)

IBB210   is now replaced by AMB210 Importing and Exporting

IBB213   is now AMB336 International Marketing

IBB217   IBB217 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)

IBB300   is now AMB369 International Business Strategy

IBB308   is replaced by MGB340 International Business in the Asia-Pacific

Management Core units

MGB310   Sustainability in a Changing Environment was formerly known as MGB212 and MGB334

Marketing Core units

AMB241   is now AMB335 E-Marketing Strategies

AMB341   is now AMB359 Strategic Marketing

Public Relations Core units

AMB260	is replaced by AMB263 Introduction to Public Relations
AMB360	is replaced by AMB373 Corporate Communication
AMB361	is replaced by AMB379 Public Relations Campaigns

Business Law and Tax Extended Major (BLX)

AYB223	replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law
AYB305	is replaced by AYB205 Law of Business Entities
AYB312	is now AYB232 Financial Institutions

Professional Accounting Extended Major (PAX)

AYB223	is replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law

Advertising Extended Major (ADX)

AMB230	now retitled AMB230 Digital Promotions
AMB330	now retitled AMB330 Advertising Planning Portfolio

Banking Extended Major (BFX)

AYB312	is now AYB232 Financial Institutions Law
EFB200	is replaced by EFB333 Introductory Econometrics
EFB318	is replaced by EFB335 Investments

Financial Economics Extended Major (FEX) (for Banking & Finance Students)

EFB200	is replaced by EFB333 Introductory Econometrics
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB325	is replaced by EFB336 International Economics
EFB318	is replaced by EFB335 Investments
EFB324	is replaced by EFB337 Game Theory and Applications

Financial Economics Extended Major (FEX) (for Economics Students)

EFB200	is replaced by EFB333 Introductory Econometrics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Funds Management Extended Major (FDX)

EFB318	is replaced by EFB335 Investments
AYB312	is now AYB232 Financial Institutions Law
EFB200	is replaced by EFB333 Introductory Econometrics

Human Resource Management Extended Major (HRX)

MGB315	is now MGB370 Personal and Professional Development
IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB310	Sustainability in a Changing Environment was formerly known as MGB212 and MGB334

International Business Extended Major (IBX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
IBB303	is now AMB303 International Logistics
AMB230	now retitled AMB230 Digital Promotions
IBB312	is replaced by AMB300 Independent Project 1

Management Extended Major (MNX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB218	is now MGB324 Managing Business Growth
MGB315	is now MGB370 Personal & Professional Development
IBB210	is replaced by AMB210 Import and Exporting
IBB303	is now AMB303 International Logistics

Marketing Extended Major (MKX)

AMB251	now retitled AMB251 Innovation and Brand Management
AMB260	is replaced by AMB263 Introduction to Public Relations
AMB351	is now AMB209 Tourism Marketing
AMB352	is replaced by AMB252 Business Decision Making
AMB354	is now AMB208 Events Marketing
IBB213	is now AMB336 International Marketing
IBB303	is now AMB303 International Logistics

Public Relations Extended Major (PRX)

AMB370	is replaced by AMB374 Global Public Relations Cases
AMB371	is replaced by AMB375 Public Relations Management

Business Law and Tax Specialisation (BLS)

AYB223	is replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law
AYB305	is now AYB205 Company Law & Practice
AYB312	is now AYB232 Financial Institutions Law
BSB213	is now AYB115 Governance Issues in E-Business

Electronic Business Specialisation (EUS)

BSB212	is replaced by AYB114 Business Technologies
BSB213	is replaced by AYB115 Governance Issues and Fraud

BSB314	is replaced by AYB341 Forensic and Business Intelligence
ITB233	is now INB312 Enterprise Systems Applications
ITB823	is now INB830 Web Sites for E-Commerce
ITB239	is now INB342 Enterprise Data Mining

Financial Economics Specialisation (FES)

EFB102	is replaced by EFB223 Economics 2
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB329	is now 338 Contemporary Applications of Economics
EFB314	is replaced by EB336 International Economics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Integrated Marketing Communication Specialisation (IMS)

AMB260	is replaced by AMB263 Introduction to Public Relations
AMB230	now retitled AMB230 Digital Promotions
AMB354	is now AMB208 Events Marketing

International Logistics Specialisation (ILG)

IBB303	is now AMB303 International Logistics
BSB314	is replaced by AYB341 Forensic and Business Intelligence
IBB210	is replaced by AMB210 Importing and Exporting
EFB213	is replaced by AMB252 Business Decision Making (offered Sem 2); OR MGB335 Project Management (offered Sem 1 & 2)

Sales Specialisation (SALES)

AMB230	now retitled AMB230 Digital Promotion
AMB250	is replaced by MGB225 Intercultural Communication and Negotiation Skills

International Exchange Specialisation (IEX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills

IX33 - Bachelor of Business/Bachelor of Information Technology Course structure 2009

Course Structure 2009

From semester one, 2009 this course will not be available for commencing students. IX33 will only be available for continuing students. New students - please refer to IX58. Please contact fit.enquiry@qut.edu.au for any enquiries.

Year 1, Semester 1

INB103	Industry Insights

INB250	Systems Architecture
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 1, Semester 2

INB210	Databases
INB251	Networks
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 2, Semester 1

INB104	Building IT Systems
	Choose one unit from: Intermediate Level Elective list. This choice will replace ITB008 from 2009 course summary.
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 2, Semester 2

INB270	Programming
INB271	The Web
BBUS	Business Unit
BBUS	Business Unit

Year 3, Semester 1

	IT Major Unit
	IT Major Unit
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 3 Semester 2

INB301	The Business of IT
	IT Major Unit
BBUS	Business Faculty Major Unit
BBUS	Business Faculty Major Unit

Year 4, Semester 1

INB302	Capstone Project
	IT Major Unit
BBUS	Business Faculty Major Unit
BBUS	Business Faculty Major Unit

Year 4, Semester 2

	IT Major Unit
	IT Major Unit
BBUS	Business Faculty Major Unit
BBUS	Business Faculty Major Unit

IX33 - Bachelor of Business/Bachelor of Information Technology Course structure 2008

Year 1, Semester 1

ITB002	IT Professional Studies

ITB005	Systems Architecture
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 1, Semester 2

ITB004	Database Systems
ITB006	Networks
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 2, Semester 1

ITB001	Problem Solving and Programming
ITB008	Modelling Analysis and Design
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 2, Semester 2

ITB003	Object Oriented Programming
ITB007	Web Development
BBUS	Business Unit
BBUS	Business Unit

Year 3, Semester 1

	IT Major Unit
	IT Major Unit
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 3 Semester 2

ITB009	Core Project Management
	IT Major Unit
BBUS	Business Faculty Major Unit
BBUS	Business Faculty Major Unit

Year 4, Semester 1

ITB010	Core Project Implementation
	IT Major Unit
BBUS	Business Faculty Major Unit
BBUS	Business Faculty Major Unit

Year 4, Semester 2

	IT Major Unit
	IT Major Unit
BBUS	Business Faculty Major Unit
BBUS	Business Faculty Major Unit

Potential Careers:

Account Executive, Accountant, Actuary, Administrator, Advertising Professional, Banker, Banking and Finance Professional, Business Analyst, Certified Practicing Accountant, Computer Games Developer, Computer Salesperson/Marketer, Corporate Secretary, Database Manager, Economist, Electronic Commerce Developer, Financial Advisor/Analyst, Financial Project Manager, Funds Manager, Government Officer, Home Economist, Human Resource Manager, Information Officer, Information Security Specialist, International Business Specialist, Internet Professional, Investment Manager, Manager, Marketing Officer/Manager, Multimedia Designer, Organisational Communication Specialist, Public Relations Officer/Consultant, Publishing Professional, Risk Manager, Stockbroker, Systems Analyst, Systems Manager, Systems Programmer, Systems Trainer, Technical Officer, Trainer, Web Designer.

Bachelor of Business / Bachelor of Mathematics (IX37)

Year offered: 2011
Admissions: Yes
CRICOS code: 059601K
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,358 per semester (indicative)
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419212
Past rank cut-off: 81
Past OP cut-off: 10
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Director of Undergraduate Studies, QUT Business School; email: bus@qut.edu.au; Prof Erhan Kozan (Science and Technology)
Discipline coordinator: Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr John Chen (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Henri Burgers (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

Overview

Accountancy, economics or finance are ideal business majors to accompany your mathematics degree, as you will learn how to undertake the sophisticated economic and financial modelling that is integral to business and government decision making. Your mathematics degree will prepare you for a career in finance, investment, information technology, environmental management, health, marketing, logistics, defence, media, education and research. Graduates are 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.

In the business component of this double degree, you will gain broad-based business knowledge and skills that will prepare you for any business role, along with the specialist skills and knowledge in your choice of business major.

Career Outcomes

Combining business and mathematics offers diverse and sustainable career opportunities.

An economics major may be useful to chart a career in actuarial areas of insurance and superannuation, although further study is required in order to qualify as an actuary.

A key role of accountants is analysing and interpreting financial data to provide business advice to clients, and the quantitative skills in the mathematics degree enhance this process. Advanced statistical analysis skills may assist marketing professionals while knowledge of logistics can assist managers in a wide range of industries. Graduates may find employment as accountants, advertising professionals, finance consultants, economists, human resource managers, international business specialists, managers, marketing officers or public relations officers.

The financial sector employs qualitative analysts to optimise returns in both the short-term and long-term, trading and pricing derivatives, to analyse quantitative risk, and work in investment strategy.

Graduates may also become actuarial trainees in the insurance and superannuation area although further study is required in order to qualify as an actuary.

Professional Recognition

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).

Financial Support

You should consider applying for an industry-sponsored mathematics bursary or a business scholarship to help you financially throughout your studies. For further information visit Scholarships.

Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor of Mathematics program and 192 credit points from the Bachelor of Business program.

Business component:
2009 and 2010 commencing students
• 7 Business School Core units (96 credit points)*
• 8 Major Core units (96 credit points)
• MGB223 Entrepreneurship and Innovation*

2007-2008 commencing students
• 7 Business School Core units (84 credit points)*
• 9 Major Core units (108 credit points)

*Please note that BSB122 Quantitative Analysis & Finance (Replaced by BSB123 Data Analysis) is not required as the content of MAB313 Mathematics of Finance covers similar topics. An additional unit from the chosen major replaces BSB122/BSB123 for 2007 and 2008 commencing students. MGB223 Entrepreneurship and Innovation replaces BSB122/BSB123 for 2009 and 2010 commencing students.

* 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.

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 on deferment.

Further Information

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

Business Coordinator
Phone: Student Services +61 7 3138 2117
Email: Student Services bus@qut.edu.au

Science and Technology Coordinator
Prof Erhan Kozan
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Full Time Course structure

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

Accountancy Major

Year 1 Semester 1
BSB110	Accounting
BSB115	Management

Year 1 Semester 2
BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1
BSB111	Business Law and Ethics
BSB113	Economics

Year 2 Semester 2
AYB200	Financial Accounting
AYB225	Management Accounting

Year 3 Semester 1
EFB210	Finance 1
AYB221	Computerised Accounting Systems

Year 3 Semester 2
AYB219	Taxation Law
AYB340	Company Accounting

Year 4 Semester 1
AYB230	Corporations Law
AYB321	Strategic Management Accounting

Year 4 Semester 2
AYB301	Audit and Assurance
AYB311	Financial Accounting Issues

Advertising Major

Year 1 Semester 1
BSB126	Marketing

BSB113   Economics

Year 1 Semester 2

BSB110   Accounting

BSB115   Management

Year 2 Semester 1

BSB124   Working in Business

BSB119   Global Business

Year 2 Semester 2

AMB200   Consumer Behaviour

AMB220   Advertising Theory and Practice

Year 3 Semester 1

BSB111   Business Law and Ethics

AMB201   Marketing and Audience Research

Year 3 Semester 2

AMB318   Advertising Copywriting

AMB319   Media Planning

Year 4 Semester 1

AMB320   Advertising Management

AMB330   Advertising Planning Portfolio

Year 4 Semester 2

AMB339   Advertising Campaigns

MGB223   Entrepreneurship and Innovation

Economics Major

Year 1 Semester 1

BSB113   Economics

BSB115   Management

Year 1 Semester 2

BSB110   Accounting

BSB124   Working in Business

Year 2 Semester 1

BSB111   Business Law and Ethics

MGB223   Entrepreneurship and Innovation

Year 2 Semester 2

EFB222   Quantitative Methods For Economics and Finance

EFB223   Economics 2

Year 3 Semester 1

EFB330   Intermediate Macroeconomics

EFB331   Intermediate Microeconomics

Year 3 Semester 2

    Choice units or remaining Business School

core units

    Choice units or remaining Business School core units

Year 4 Semester 1

    Choice units or remaining Business School core units

    Choice units or remaining Business School core units

Year 4 Semester 2

EFB338   Contemporary Application of Economic Theory

    Choice units or remaining Business School core units

Choice units

    Choose any three of the following:

EFB332   Applied Behavioural Economics

EFB333   Introductory Econometrics

EFB334   Environmental Economics and Policy

EFB336   International Economics

EFB337   Game Theory and Applications

Important Note:

    Note: BSB119 and BSB126 are the remaining Business School core units to be completed from the Business program.

Finance Major

Year 1 Semester 1

BSB113   Economics

BSB115   Management

Year 1 Semester 2

BSB124   Working in Business

BSB126   Marketing

Year 2 Semester 1

BSB110   Accounting

BSB111   Business Law and Ethics

Year 2 Semester 2

BSB119   Global Business

MGB223   Entrepreneurship and Innovation

Year 3 Semester 1

EFB210   Finance 1

EFB222   Quantitative Methods For Economics and Finance

Year 3 Semester 2

EFB201   Financial Markets

EFB307   Finance 2

Year 4 Semester 1

EFB223   Economics 2

EFB335   Investments

Year 4 Semester 2

EFB312   International Finance

EFB340   Finance Capstone

Human Resource Management Major

Year 1 Semester 1

BSB113   Economics

BSB115   Management

Year 1 Semester 2

BSB124   Working in Business

BSB126   Marketing

Year 2 Semester 1

BSB110   Accounting

BSB111   Business Law and Ethics

Year 2 Semester 2

BSB119   Global Business

MGB223   Entrepreneurship and Innovation

Year 3 Semester 1

MGB207   Human Resource Issues and Strategy

MGB220   Business Research Methods

Year 3 Semester 2

MGB200   Leading Organisations

MGB201   Contemporary Employment Relations

Year 4 Semester 1

MGB331   Learning and Development in Organisations

MGB339   Performance and Reward

Year 4 Semester 2

MGB320   Recruitment and Selection

MGB370   Personal and Professional Development

International Business Major

Year 1 Semester 1

BSB119   Global Business

BSB126   Marketing

Year 1 Semester 2

BSB110   Accounting

BSB115   Management

Year 2 Semester 1

BSB113   Economics

BSB124   Working in Business

Year 2 Semester 2

BSB111   Business Law and Ethics

MGB223   Entrepreneurship and Innovation

Year 3 Semester 1

AYB227   International Accounting

MGB225   Intercultural Communication and Negotiation Skills

Year 3 Semester 2

AMB210   Importing and Exporting

EFB240   Finance for International Business

Year 4 Semester 1

AMB303   International Logistics

AMB336   International Marketing

Year 4 Semester 2

MGB340   International Business in the Asia-Pacific

AMB369   International Business Strategy

Management Major

Year 1 Semester 1

BSB113   Economics

BSB115   Management

Year 1 Semester 2

BSB124   Working in Business

BSB126   Marketing

Year 2 Semester 1

BSB110   Accounting

BSB111   Business Law and Ethics

Year 2 Semester 2

BSB119   Global Business

MGB223   Entrepreneurship and Innovation

Year 3 Semester 1

MGB201   Contemporary Employment Relations

MGB210   Managing Operations

Year 3 Semester 2

MGB200   Leading Organisations

MGB225   Intercultural Communication and Negotiation Skills

Year 4 Semester 1

MGB309   Strategic Management

MGB324   Managing Business Growth

Year 4 Semester 2

MGB310   Sustainability in A Changing Environment

MGB335   Project Management

Marketing Major

Year 1 Semester 1

BSB113   Economics

BSB126   Marketing

Year 1 Semester 2

BSB111   Business Law and Ethics

BSB115   Management

Year 2 Semester 1

BSB119   Global Business

BSB124   Working in Business

Year 2 Semester 2

BSB110   Accounting

MGB223   Entrepreneurship and Innovation

Year 3 Semester 1

AMB200   Consumer Behaviour

AMB201   Marketing and Audience Research

Year 3 Semester 2

AMB202   Integrated Marketing Communication

AMB240   Marketing Planning and Management

Year 4 Semester 1

AMB335   E-marketing Strategies

AMB340   Services Marketing

Year 4 Semester 2

AMB336   International Marketing

AMB359   Strategic Marketing

Public Relations Major

Year 1 Semester 1

BSB119   Global Business

BSB126   Marketing

Year 1 Semester 2

BSB110   Accounting

BSB115   Management

Year 2 Semester 1

BSB113   Economics

BSB124   Working in Business

Year 2 Semester 2

AMB263   Introduction To Public Relations

AMB264   Public Relations Techniques

Year 3 Semester 1

AMB201   Marketing and Audience Research

BSB111   Business Law and Ethics

Year 3 Semester 2

AMB372   Public Relations Planning

AMB373   Corporate Communication

Year 4 Semester 1

AMB374   Global Public Relations Cases

AMB375   Public Relations Management

Year 4 Semester 2

AMB379   Public Relations Campaigns

MGB223   Entrepreneurship and Innovation

Course structure for Students with Four Semesters of Senior Mathematics B and Senior Mathematics C

Year 1, Semester 1

MAB101   Statistical Data Analysis 1

MAB121   Calculus and Differential Equations

Year 1, Semester 2

MAB122   Algebra and Analytic Geometry

MAB210   Statistical Modelling 1

Year 2, Semester 1

MAB311   Advanced Calculus

Mathematics Elective

Year 2, Semester 2

MAB220   Computational Mathematics 1

Mathematics Elective

Year 3, Semester 1

MAB312   Linear Algebra

Mathematics Elective

Year 3, Semester 2

Mathematics Elective

Mathematics Elective

Year 4, Semester 1

Mathematics Elective

Mathematics Elective

Year 4, Semester 2

Mathematics Elective

Mathematics Elective

Course Structure for Students with Four Semesters of Senior Mathematics B Only

Year 1, Semester 1

MAB101   Statistical Data Analysis 1

MAB120   Algebra and Calculus

Year 1, Semester 2

MAB121   Calculus and Differential Equations

MAB122   Algebra and Analytic Geometry

Year 2, Semester 1

MAB210   Statistical Modelling 1

MAB311   Advanced Calculus

Year 2, Semester 2

MAB220   Computational Mathematics 1

          Mathematics Elective

Year 3, Semester 1

MAB312   Linear Algebra

          Mathematics Elective

Year 3, Semester 2

          Mathematics Elective

          Mathematics Elective

Year 4, Semester 1

          Mathematics Elective

          Mathematics Elective

Year 4, Semester 2

          Mathematics Elective

          Mathematics Elective

Mathematics Units

Level 2 Units

MAB311   Advanced Calculus

MAB312   Linear Algebra

MAB313   Mathematics of Finance

MAB314   Statistical Modelling 2

MAB315   Operations Research 2

MAB413   Differential Equations

MAB414   Applied Statistics 2

MAB420   Computational Mathematics 2

MAB422   Mathematical Modelling

MAB461   Discrete Mathematics

MAB480   Introduction to Scientific Computation

          Note: MAB311 Advanced Calculus and
          MAB312 Linear Algebra are mandatory units.

Level 3 Units - at least 4 units must be selected

MAB521   Applied Mathematics 3

MAB522   Computational Mathematics 3

MAB524   Statistical Inference

MAB525   Operations Research 3A

MAB533   Statistical Techniques

MAB536   Time Series Analysis

MAB613   Partial Differential Equations

MAB623   Financial Mathematics

MAB624   Applied Statistics 3

MAB625   Operations Research 3B

MAB640   Industry Project

MAB672   Advanced Mathematical Modelling

          Note: MAB523 Introduction to Quality
          Management and MAB621 Discrete
          Mathematics do not contribute to the
          mandatory 48 credit points minimum from
          Level 3 Mathematics units.

Accountancy Major Course Structure for Students with Maths B and C

Year 1 Semester 1

BSB110   Accounting

BSB115   Management, People and Organisations

Year 1 Semester 2

BSB114   Government, Business and Society

BSB126   Marketing
          or
BSB119   International and Electronic Business

Year 2 Semester 1

BSB111   Business Law and Ethics

BSB113   Economics

Year 2 Semester 2

AYB121   Financial Accounting

AYB223   Law of Business Associations

Year 3 Semester 1

AYB225   Management Accounting

AYB220   Company Accounting

Year 3 Semester 2

AYB221   Computerised Accounting Systems

AYB325   Taxation Law

Year 4 Semester 1

AYB301   Auditing

AYB311   Financial Accounting Issues
          or
AYB321   Strategic Management Accounting

Year 4 Semester 2

AYB339   Accountancy Capstone

EFB210   Finance 1

Banking and Finance Major Course Structure for Students with Maths B and C

Year 1 Semester 1

| BSB113 | Economics |
| BSB115 | Management, People and Organisations |

Year 1 Semester 2

| BSB114 | Government, Business and Society |
| BSB126 | Marketing |

Year 2 Semester 1

| BSB110 | Accounting |
| BSB111 | Business Law and Ethics |

Year 2 Semester 2

| EFB102 | Economics 2 |
| BSB119 | International and Electronic Business |

Year 3 Semester 1

| EFB210 | Finance 1 |
| EFB201 | Financial Markets |

Year 3 Semester 2

| EFB307 | Finance 2 |
| EFB312 | International Finance |

Year 4 Semester 1

| EFB200 | Applied Regression Analysis |
| EFB318 | Portfolio and Security Analysis |

Year 4 Semester 2

| | Any Finance Unit |
| | Any Finance Unit |

Economics Major Course Structure for Students with Maths B and C

Year 1 Semester 1

| BSB113 | Economics |
| BSB115 | Management, People and Organisations |

Year 1 Semester 2

| BSB114 | Government, Business and Society |
| BSB126 | Marketing |

Year 2 Semester 1

| BSB110 | Accounting |
| EFB102 | Economics 2 |

Year 2 Semester 2

| EFB210 | Finance 1 |
| BSB119 | International and Electronic Business |

Year 3 Semester 1

| EFB211 | Firms, Markets and Resources |
| EFB202 | Business Cycles and Economic Growth |

Year 3 Semester 2

| EFB328 | Public Economics and Finance |
| | Any Economics unit |

Year 4 Semester 1

| BSB111 | Business Law and Ethics |
| EFB200 | Applied Regression Analysis |

Year 4 Semester 2

| EFB329 | Contemporary Applications of Economics Theory |
| EFB314 | International Trade and Economic Competitiveness |

International Business Major Course Structure for Students with Maths B and C

Year 1 Semester 1

| BSB126 | Marketing |
| BSB119 | International and Electronic Business |

Year 1 Semester 2

| BSB110 | Accounting |
| BSB115 | Management, People and Organisations |

Year 2 Semester 1

| BSB114 | Government, Business and Society |
| IBB202 | Fundamentals of International Finance |

Year 2 Semester 2

| BSB111 | Business Law and Ethics |
| BSB113 | Economics |

Year 3 Semester 1

IBB205	Intercultural Communication and Negotiation
IBB217	Asian Business Development
	or
IBB208	European Business Development

Year 3 Semester 2

IBB210	Export Management
IBB317	Contemporary Business in Asia
	or
IBB308	Contemporary Business in Europe

Year 4 Semester 1

| IBB300 | International Business Strategy |
| IBB304 | Global Industry Analysis |

Year 4 Semester 2

| IBB213 | International Marketing |
| IBB303 | International Logistics |

Marketing Major Course Structure for Students with

Maths B and C

Year 1 Semester 1

| BSB119 | International and Electronic Business |
| BSB126 | Marketing |

Year 1 Semester 2

| BSB110 | Accounting |
| BSB115 | Management, People and Organisations |

Year 2 Semester 1

| BSB114 | Government, Business and Society |
| AMB200 | Consumer Behaviour |

Year 2 Semester 2

| BSB111 | Business Law and Ethics |
| BSB113 | Economics |

Year 3 Semester 1

| AMB202 | Integrated Marketing Communication |
| AMB240 | Marketing Planning and Management |

Year 3 Semester 2

| AMB201 | Marketing and Audience Research |
| AMB241 | E-Marketing Strategies |

Year 4 Semester 1

| AMB340 | Services Marketing |
| | Any Marketing unit |

Year 4 Semester 2

AMB341	Strategic Marketing
AMB352	Marketing Decision Making
	or
IBB213	International Marketing

Accountancy Course Structure for Students with Maths B

Year 1 Semester 1

| BSB110 | Accounting |
| BSB115 | Management, People and Organisations |

Year 1 Semester 2

BSB126	Marketing
	or
BSB119	International and Electronic Business

Year 2 Semester 1

| BSB111 | Business Law and Ethics |
| BSB113 | Economics |

Year 2 Semester 2

| AYB121 | Financial Accounting |

| AYB223 | Law of Business Associations |
| BSB114 | Government, Business and Society |

Year 3 Semester 1

| AYB225 | Management Accounting |
| AYB220 | Company Accounting |

Year 3 Semester 2

| AYB221 | Computerised Accounting Systems |
| AYB325 | Taxation Law |

Year 4 Semester 1

AYB301	Auditing
AYB311	Financial Accounting Issues
	or
AYB321	Strategic Management Accounting

Year 4 Semester 2

| AYB339 | Accountancy Capstone |
| EFB210 | Finance 1 |

Banking & Finance Course Structure for Students with Maths B

Year 1 Semester 1

| BSB113 | Economics |
| BSB115 | Management, People and Organisations |

Year 1 Semester 2

| BSB114 | Government, Business and Society |

Year 2 Semester 1

| BSB110 | Accounting |
| BSB111 | Business Law and Ethics |

Year 2 Semester 2

EFB102	Economics 2
BSB119	International and Electronic Business
BSB126	Marketing

Year 3 Semester 1

| EFB210 | Finance 1 |
| EFB201 | Financial Markets |

Year 3 Semester 2

| EFB307 | Finance 2 |
| EFB312 | International Finance |

Year 4 Semester 1

| EFB200 | Applied Regression Analysis |
| EFB318 | Portfolio and Security Analysis |

Year 4 Semester 2

| | Any Finance Unit |

Any Finance Unit

Economics Course Structure for Students with Maths B

Year 1 Semester 1

BSB113   Economics

BSB115   Management, People and Organisations

Year 1 Semester 2

BSB114   Government, Business and Society

Year 2 Semester 1

BSB110   Accounting

EFB102   Economics 2

Year 2 Semester 2

BSB119   International and Electronic Business

EFB210   Finance 1

BSB126   Marketing

Year 3 Semester 1

EFB211   Firms, Markets and Resources

EFB202   Business Cycles and Economic Growth

Year 3 Semester 2

Any Economics Unit

EFB328   Public Economics and Finance

Year 4 Semester 1

BSB111   Business Law and Ethics

EFB200   Applied Regression Analysis

Year 4 Semester 2

EFB329   Contemporary Applications of Economics Theory

EFB314   International Trade and Economic Competitiveness

International Business Course Structure for Students with Maths B

Year 1 Semester 1

BSB119   International and Electronic Business

BSB126   Marketing

Year 1 Semester 2

BSB110   Accounting

Year 2 Semester 1

BSB114   Government, Business and Society

IBB202   Fundamentals of International Finance

Year 2 Semester 2

BSB111   Business Law and Ethics

BSB113   Economics

BSB115   Management, People and Organisations

Year 3 Semester 1

IBB205   Intercultural Communication and Negotiation

IBB217   Asian Business Development

or

IBB208   European Business Development

Year 3 Semester 2

IBB210   Export Management

IBB317   Contemporary Business in Asia

or

IBB308   Contemporary Business in Europe

Year 4 Semester 1

IBB300   International Business Strategy

IBB304   Global Industry Analysis

Year 4 Semester 2

IBB213   International Marketing

IBB303   International Logistics

Marketing Course Structure for Students with Maths B

Year 1 Semester 1

BSB119   International and Electronic Business

BSB126   Marketing

Year 1 Semester 2

BSB110   Accounting

Year 2 Semester 1

BSB114   Government, Business and Society

AMB200   Consumer Behaviour

Year 2 Semester 2

BSB111   Business Law and Ethics

BSB113   Economics

BSB115   Management, People and Organisations

Year 3 Semester 1

AMB202   Integrated Marketing Communication

AMB240   Marketing Planning and Management

Year 3 Semester 2

AMB201   Marketing and Audience Research

AMB241   E-Marketing Strategies

Year 4 Semester 1

AMB340   Services Marketing

Any Marketing Unit

Year 4 Semester 2

AMB341   Strategic Marketing

AMB352	Marketing Decision Making
	or
IBB213	International Marketing

Course Updates - List of re-coded and replacement Business units

Faculty Core units

BSB114	is replaced by BSB124 Working in Business
BSB115	now retitled BSB115 Management
BSB119	now retitled BSB119 Global Business
BSB122	is replaced by BSB123 Data Analysis

Accountancy Core units

AYB121	is now AYB200 Financial Accounting AYB121
AYB220	is now AYB340 Company Accounting AYB220
AYB301	now retitled AYB301 Audit and Assurance

Advertising Core units

AMB221	is now AMB318 Advertising Copywriting
AMB222	is now AMB319 Media Planning
AMB321	is now AMB339 Advertising Campaigns

Banking and Finance Core units

| EFB101 | is replaced by EFB222 Quantitative Methods for Economics and Finance |
| EFB102 | now retitled EFB223 Economics 2 |

Economics Core units

EFB101	is replaced by EFB222 Quantitative Methods for Economics and Finance
EFB102	now retitled EFB223 Economics 2
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB314	is replaced by EFB336 International Economics
EFB329	is now EFB338 Contemporary Application of Economic

Electronic Business Core units

BSB212	is replaced by AYB114 Business Technologies
BSB213	is replaced by AYB115 Governance Issus and Fraud
BSB314	is replaced by Forensic and Business Intelligence
ITB233	is now INB312 Enterprise Systems Application
ITB823	is now INB830 Web Sites for E-Commerce
ITB239	is now INB342 Enterprise Data Mining

Human Resource Management Core units

| MGB220 | now retitled MGB220 Business Research Methods |
| MGB221 | is now MGB339 Performance and Reward |

International Business Core units

IBB202	is replaced by EFB240 Finance for International Business
IBB208	IBB208 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB210	is now replaced by AMB210 Importing and Exporting
IBB213	is now AMB336 International Marketing
IBB217	IBB217 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB300	is now AMB369 International Business Strategy
IBB308	is replaced by MGB340 International Business in the Asia-Pacific

Management Core units

| MGB310 | Sustainability in a Changing Environment was formerly known as MGB212 and MGB334 |

Marketing Core units

| AMB241 | is now AMB335 E-Marketing Strategies |
| AMB341 | is now AMB359 Strategic Marketing |

Public Relations Core units

AMB260	is replaced by AMB263 Introduction to Public Relations
AMB360	is replaced by AMB373 Corporate Communication
AMB361	is replaced by AMB379 Public Relations Campaigns

Business Law and Tax Extended Major (BLX)

AYB223	replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law
AYB305	is replaced by AYB205 Law of Business Entities
AYB312	is now AYB232 Financial Institutions

Professional Accounting Extended Major (PAX)

| AYB223 | is replaced by AYB230 Corporations Law |
| AYB325 | is now AYB219 Taxation Law |

Advertising Extended Major (ADX)

| AMB230 | now retitled AMB230 Digital Promotions |
| AMB330 | now retitled AMB330 Advertising Planning Portfolio |

Banking Extended Major (BFX)

AYB312	is now AYB232 Financial Institutions Law
EFB200	is replaced by EFB333 Introductory Econometrics
EFB318	is replaced by EFB335 Investments

Financial Economics Extended Major (FEX) (for Banking & Finance Students)

EFB200	is replaced by EFB333 Introductory Econometrics
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB325	is replaced by EFB336 International Economics
EFB318	is replaced by EFB335 Investments
EFB324	is replaced by EFB337 Game Theory and Applications

Financial Economics Extended Major (FEX) (for Economics Students)

EFB200	is replaced by EFB333 Introductory Econometrics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Funds Management Extended Major (FDX)

EFB318	is replaced by EFB335 Investments
AYB312	is now AYB232 Financial Institutions Law
EFB200	is replaced by EFB333 Introductory Econometrics

Human Resource Management Extended Major (HRX)

MGB315	is now MGB370 Personal and Professional Development
IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB310	Sustainability in a Changing Environment was formerly known as MGB212 and MGB334

International Business Extended Major (IBX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
IBB303	is now AMB303 International Logistics
AMB230	now retitled AMB230 Digital Promotions
IBB312	is replaced by AMB300 Independent Project 1

Management Extended Major (MNX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB218	is now MGB324 Managing Business Growth
MGB315	is now MGB370 Personal & Professional Development
IBB210	is replaced by AMB210 Import and Exporting
IBB303	is now AMB303 International Logistics

Marketing Extended Major (MKX)

AMB251	now retitled AMB251 Innovation and Brand Management
AMB260	is replaced by AMB263 Introduction to Public Relations
AMB351	is now AMB209 Tourism Marketing

AMB352	is replaced by AMB252 Business Decision Making
AMB354	is now AMB208 Events Marketing
IBB213	is now AMB336 International Marketing
IBB303	is now AMB303 International Logistics

Public Relations Extended Major (PRX)

AMB370	is replaced by AMB374 Global Public Relations Cases
AMB371	is replaced by AMB375 Public Relations Management

Business Law and Tax Specialisation (BLS)

AYB223	is replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law
AYB305	is now AYB205 Company Law & Practice
AYB312	is now AYB232 Financial Institutions Law
BSB213	is now AYB115 Governance Issues in E-Business

Electronic Business Specialisation (EUS)

BSB212	is replaced by AYB114 Business Technologies
BSB213	is replaced by AYB115 Governance Issues and Fraud
BSB314	is replaced by AYB341 Forensic and Business Intelligence
ITB233	is now INB312 Enterprise Systems Applications
ITB823	is now INB830 Web Sites for E-Commerce
ITB239	is now INB342 Enterprise Data Mining

Financial Economics Specialisation (FES)

EFB102	is replaced by EFB223 Economics 2
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB329	is now 338 Contemporary Applications of Economics
EFB314	is replaced by EB336 International Economics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Integrated Marketing Communication Specialisation (IMS)

AMB260	is replaced by AMB263 Introduction to Public Relations
AMB230	now retitled AMB230 Digital Promotions
AMB354	is now AMB208 Events Marketing

International Logistics Specialisation (ILG)

IBB303	is now AMB303 International Logistics
BSB314	is replaced by AYB341 Forensic and Business Intelligence
IBB210	is replaced by AMB210 Importing and

Exporting

EFB213   is replaced by AMB252 Business Decision Making (offered Sem 2); OR MGB335 Project Management (offered Sem 1 & 2)

Sales Specialisation (SALES)

AMB230   now retitled AMB230 Digital Promotion

AMB250   is replaced by MGB225 Intercultural Communication and Negotiation Skills

International Exchange Specialisation (IEX)

IBB205   is now MGB225 Intercultural Communication and Negotiation Skills

Potential Careers:

Account Executive, Accountant, Actuary, Banker, Banking and Finance Professional, Business Analyst, Certified Practicing Accountant, Computer Game Programmer, Corporate Secretary, Economist, Financial Advisor/Analyst, Financial Project Manager, Funds Manager, Government Officer, Investment Manager, Market Research Manager, Mathematician, Quantitative Analyst, Risk Manager, Statistician, Stockbroker.

Bachelor of Arts/Bachelor of Information Technology (IX49)

Year offered: 2011
Admissions: No
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,299 per semester (indicative)
QTAC code: This course is no longer offered
Past rank cut-off: 73
Past OP cut-off: 13
OP Guarantee: Yes
Assumed knowledge: English (4, SA), and for games technology and security majors, Maths B (4, SA), or for all other majors, Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Course coordinator: Contact Eve Teague (Arts) - Richard Thomas (Science and Technology)
Campus: Gardens Point and Kelvin Grove

COURSE OVERVIEW

YEAR 1 SEMESTER 1

INB103	Industry Insights
INB250	Foundations of Computer Science
BA	Major unit
HHB116	Applied Skills And Scholarship

YEAR 1 SEMESTER 2

INB210	Databases
INB251	Networks
BA	Major unit
BA	Discipline unit or Elective unit

YEAR 2 SEMESTER 1

INB104	Building IT Systems
	Choose one unit from: Intermediate Level Elective list. This choice will replace ITB008 from 2009 course summary.
BA	Major unit
BA	Discipline or Minor unit or Elective unit

YEAR 2 SEMESTER 2

INB270	Programming
INB271	The Web
BA	Major unit
BA	Major unit

YEAR 3 SEMESTER 1

	IT Major Unit
	IT Major Unit
BA	Major unit
BA	Discipline or Minor unit or Elective

YEAR 3 SEMESTER 2

INB301	The Business of IT
	IT Major Unit
BA	Major unit
BA	Discipline or Minor unit or Elective

YEAR 4 SEMESTER 1

INB302	IT Capstone Project
	IT Major Unit
BA	Elective unit
BA	Discipline or Minor unit or Elective

YEAR 4 SEMESTER 2

	IT Major Unit
	IT Major Unit
BA	Elective unit
BA	Discipline unit or Elective unit

Information Systems Major

Compulsory Units

INB311	Enterprise Systems
INB340	Database Design
INB220	Business Analysis

IS Elective Units

INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining and Data Analysis
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB124	Information Systems Development
INB221	Technology Management

Network Systems Major

Compulsory Units

INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB255	Security

Electives

INB312	Enterprise Systems Applications
INB365	Systems Programming
INB353	Wireless and Mobile Networks
INB355	Cryptology and Protocols

Software Architecture Major

Compulsory Units

INB340	Database Design

| INB371 | Data Structures and Algorithms |
| INB372 | Agile Software Development |

Electives	
	Choose 3 Electives
INB341	Software Development With Oracle
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB272	Interaction Design
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB365	Systems Programming
INB370	Software Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
MAB281	Mathematics for Computer Graphics
	MAB281 is only to be used as a prereq for INB381

Society and Change Multidisciplinary Major

Society and Change	
	Seven (7) units are required for a Society and Change Major. These can include units completed in the Society and Change Major up to 2009 as well as any completed from the following list:
CLB107	The Classical World
CLB110	Environment and Society
CLB111	Environmental Hazards
JSB171	Justice and Society
KMB003	Sex Drugs Rock 'N' Roll
MDB454	Science, Technology and Society
PUB209	Health, Culture and Society
PYB067	Human Sexuality
SCB110	Science Concepts and Global Systems
SWB102	The Human Condition
SWB104	Interpersonal Communication
SWB212	Community Work
SWB214	Team Practice and Group Processes
SWB222	Advanced Communication for Human Services and Social Work
SWB223	People, Society and Social Work
SWB302	Social Policy Processes

Ethics and Human Rights Multidisciplinary Major

Ethics and Human Rights	
	Seven (7) units are required for an Ethics and

Human Rights Major. These can include units completed in the Ethics and Human Rights Major up to 2009 as well as any completed from the following list.

JSB171	Justice and Society
JSB175	Social Ethics and the Justice System
LWS101	Ethics Law and Health Care
NSB113	Diversity and Health: Introduction to Indigenous and Multicultural Perspectives
PUB486	Ethics and the Law in Health Service Delivery
SWB105	Introduction to Human Rights and Ethics
SWB219	Ethical and Legal Dimensions of Human Services and Social Work

Community Studies Multidisciplinary Major

Community Studies	
	Seven (7) units are required for a Community Studies Major. These can include units completed in the Community Studies Major up to 2009 as well as any completed from the following list.
EDB040	Indigenous Knowledge: Research Ethics and Protocols
EDB041	Indigenous Australia: Country, Kin and Culture
SWB100	Introduction to Human Services and Social Work
SWB102	The Human Condition
SWB103	Contemporary Social and Community Issues
SWB104	Interpersonal Communication
SWB204	Child and Family Services: Introduction
SWB206	Disability Services: Introduction
SWB207	Services to Young People: Introduction
SWB212	Community Work
SWB214	Team Practice and Group Processes
SWB216	The Human Dimensions of Space
SWB219	Ethical and Legal Dimensions of Human Services and Social Work
SWB220	Practice Theories
SWB221	Social Work Processes and Methods
SWB222	Advanced Communication for Human Services and Social Work
SWB302	Social Policy Processes
SWB304	Child and Family Services: Advanced
SWB305	Community and Youth Corrections
SWB306	Disability Services: Advanced
SWB307	Services to Young People: Advanced
SWB308	Child Protection Intervention Skills

Australian Studies Multidisciplinary Major

Australian Studies	
	Seven (7) units are required for an Australian Studies Major. These can include units completed in the Austrlian Studies Major up to

2009 as well as any completed from the following list.

CLB101	Australian Society and Culture
CLB102	Australian Historical Studies
CLB105	Australia and the South Pacific
CLB113	Australian Geographical Studies
EDB038	Indigenous Australian Culture Studies
EDB039	Indigenous Politics and Political Culture
EDB041	Indigenous Australia: Country, Kin and Culture

International and Global Studies Multidisciplinary Major

International and Global Studies

Seven (7) units are required for an International and Global Studies (IGS) Major. These can include units completed in the IGS Major up to 2009 as well as any completed from the following list.

BSB119	Global Business
CLB049	The Global Teacher
CLB104	Colonialism and Independence in Asia-Pacific
CLB105	Australia and the South Pacific
CLB106	Modern China
CLB108	Nations and Nationalism in Modern Europe
CLB109	World Regions
CLB112	South East Asia in Focus
MDB454	Science, Technology and Society
SCB110	Science Concepts and Global Systems

Students may select one Language unit to be counted as part of the IGS Major. Students may also undertake a Combined Major in Languages/International and Global Studies, comprising 3 IGS units plus 4 units in one chosen language. (Indonesian, Japanese, French, Mandarin, German).

Discipline Major - Geography and Environmental Studies

Geography and Environmental Studies

Six (6) units are required for a Geography and Environmental Studies Discipline Major. These can include units completed in the Geography and Enviornmental Studies Discipline Majore up to 2009 as well as any completed from the following list.

CLB109	World Regions
CLB110	Environment and Society
CLB111	Environmental Hazards
CLB112	South East Asia in Focus
CLB113	Australian Geographical Studies
CLB114	Geography in the Field
SCB110	Science Concepts and Global Systems
UDB164	Population and Urban Studies
UDB281	Geographic Information Systems
UDB282	Remote Sensing

Discipline Major - History

History

Six (6) units are required for a History Discipline Major. These can include units completed in the History Discipline Major up to 2009 as well as any complted from the following list.

CLB101	Australian Society and Culture
CLB102	Australian Historical Studies
CLB103	Interpreting the Past
CLB104	Colonialism and Independence in Asia-Pacific
CLB105	Australia and the South Pacific
CLB106	Modern China
CLB107	The Classical World
CLB108	Nations and Nationalism in Modern Europe

Discipline Major - Languages

LANGUAGES

Apart from Mandarin, all Languages are now offered via cross institutional study from the University of Queensland. For information on Language options contact QUT's Faculty of Business

Mandarin

The following units are taught at UQ. Six sequenced units are required for a Mandarin Discipline Major. These can include units completed in the Mandarin Discipline Major up to 2009 as well as those from the following list:

AMB030	Mandarin for Chinese
AMB031	Mandarin 1
AMB032	Mandarin 2
AMB033	Mandarin 3
AMB034	Mandarin 4
AMB035	Mandarin 5
AMB036	Mandarin 6
AMB037	Mandarin 7
AMB038	Mandarin 8

Overseas Units - All Languages

AMB041	International Intensive Program
AMB042	International Summer School or Equivalent
AMB043	In-Country Study - A
AMB044	In-Country Study - B

French

The following units are taught at UQ. Six sequenced units are required for a French Discipline Major. These can include units completed in the French Discipline Major up to 2009 as well as those from the following list:

FREN1010	French 1/Introductory French A

FREN1020	French 2/Introductory French B
FREN2010	French 3/Intermediate French A
	OR
FREN3112	French Langage A
FREN2020	French 4/Intermediate French B *
	OR
FREN3113	French Langage B *
FREN3114	French 5/French Language C
FREN3115	French 6/French Language D
FREN3116	French 7/Advanced French Language **
	OR
FREN3330	French for Business
	OR
FREN3360	Le cinema en Francais
FREN3120	French 8/Advanced Oral French
	OR
FREN3210	Litterature et modernite
	OR
FREN3310	Introduction to French > English Translation
	OR
FREN3350	Litterature Contemporaine

* FREN2010 is third semester French for students who have done HHB061 and HHB062 (semester 1 and 2 beginner French). FREN3112 is first semester French for students who have successfully completed Year 12 in the last three years

** Students who have already completed HHB066 French 6 at QUT should not enrol in FREN3116.

German

The following units are taught at UQ. Six sequenced units are required for a German Discipline Major. These can include units completed in the German Discipline Major up to 2009 as well as those from the following list:

GRMN1010	German 1/Introductory German Language 1
GRMN1020	German 2/Introductory German Langue 2
GRMN2010	German 3/Continuing German Language 1
GRMN2020	German 4/Continuing German Language 2
GRMN3010	German 5/Advanced German Language 1
GRMN3020	German 6/Advanced German Language 2
GRMN3110	German 7/Advanced German Language 3
GRMN3120	German 8/Advanced German Language 4

Japanese

The following units are taught at UQ. Six sequenced units are required for a Japanese Discipline Major. These can include units completed in the Japanese Discipline Major up to 2009 as well as those from the following list:

JAPN1011	Japanese 1/Introductory Japanese 1
JAPN2011	Japanese 2/Introductory Japanese 2
JAPN2101	Japanese 3/Intermediate Japanese 1
JAPN3001	Japanese 4/Intermediate Japanese 2
JAPN3101	Japanese 5/Continuing Japanese 3
JAPN3102	Japanese 6/Continuing Japanese 4
JAPN3200	Japanese 7/Multimedia Japanese
	OR
JAPN3240	Modern Literary Texts
	OR
JAPN3210	Polite Japanese Written & Spoken Styles
JAPN3500	Japanese 8/Language and Society in Japan

Indonesian

The following units are taught at UQ. Six sequenced units are required for a Indonesian Discipline Major. These can include units completed in the Indonesian Discipline Major up to 2009 as well as those from the following list:

INDN1000	Indonesian 1/Introductory Indonesian A
INDN1001	Indonesian 2/Introductory Indonesian B
INDN2000	Indonesian 3/Intermediate Indonesian A
INDN2001	Indonesian 4/Intermediate Indonesian B
INDN3000	Indonesian 5/Advanced Indonesian A
INDN3001	Indonesian 6/Advanced Indonesian B
INDN3003	Indonesian 7/Indonesian Through the Media
INDN3005	Indonesian 8/Indonesian Translation B

Discipline Major - Social Science

SOCIAL SCIENCE

Six (6) units are required for a Social Science Discipline Major which comprises Sociology units and Political Studies units. These can include units completed in the Social Science Discipline Major up to 2009 as well as any completed from the following list.

Sociology

CLB403	Gender And Sexuality Issues For Teachers

JSB272   Theories of Crime

JSB372   Youth Justice

JSB378   Drugs and Crime

JSB971   Gender Crime and the Criminal Justice System

KMB003   Sex Drugs Rock 'N' Roll

MDB454   Science, Technology and Society

PYB067   Human Sexuality

PUB209   Health, Culture and Society

SWB216   The Human Dimensions of Space

Political Studies

EDB039   Indigenous Politics and Political Culture

JSB271   Policy Governance and Justice

KCB302   Political Communication

SWB218   Social Change, Politics, Policy and Activism

SWB302   Social Policy Processes

Potential Careers:

Community Worker, Diplomat, Government Officer, Higher Education Worker, Information Officer, Policy Officer, Public Servant.

Bachelor of Information Technology/Bachelor of Laws (IX53)

Year offered: 2011
Admissions: Yes
CRICOS code: 066292D
Course duration (full-time): 5.5 Years
Domestic fees (indicative): 2011: CSP $4,209 (indicative) per semester
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419622
Past rank cut-off: 92
Past OP cut-off: 5
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths A, B or C (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 528
Standard credit points per full-time semester: 48
Course coordinator: Mr Mike Roggenkamp (Science and Technology), Dr Bill Dixon (Law)
Campus: Gardens Point

Course Overview

Combining law and information technology puts you at the cutting edge of the growth area of legal issues arising from the advance of information technology.

This double degree gives you the ability to practise law in light of the complex information and technology environments generated by manufacturers, data processing consultancies and private and government organisations. Alternatively, you may choose to practise as a computing professional specialising in legal applications, information systems or security.

Technology is increasingly becoming a part of everyday business. For example, political campaigns now use a wide range of technologies, including social networking, to deliver their message. Staff from both the information technology and law areas have contributed to the rapid developments in this area. Studying information technology allows you to keep up with the new era of the connected generation within the legal environment. Because more legal issues are arising from the Internet every day, the legal industry requires more graduates with an information technology background to help tackle these issues.

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 egovernment service delivery and political campaigning.

Professional Recognition

This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord. At the end of your Law degree you will have completed the necessary units for admission to legal practice in Australia. To become a practicing lawyer you will need to complete further practical legal training (e.g. Graduate Diploma in Legal Practice) and then apply for admission.

Study Areas

IX53 will not have nominated majors and minors in the IT component and consequently there will not be a Study Area A shown on a graduate's parchment. Instead, IX53 will have specialisations. The specialisation areas that will be available for students will include:
• Business Process Management
• Data Warehousing
• Digital Societies
• Enterprise Systems
• Information Management
• Network Systems
• Software Engineering
• Web Technologies

Pathways to Futher 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.

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 on deferment.

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.

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.

Further Information

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

Science and Technology Coordinator
Richard Thomas
Phone: +61 07 3138 2782
Email: enquiry.scitech@qut.edu.au

Law Coordinator

Dr Bill Dixon
Ph: +61 7 3138 2707
Fax: +61 7 3138 2222
Email: law_enquiries@qut.edu.au

IX53 - Bachelor of Information Technology/Bachelor of Laws Course structure 2011

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
LWB145	Legal Foundations A
LWB147	Torts A

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems
LWB146	Legal Foundations B
LWB148	Torts B

Year 2, Semester 1	
	IT Breadth Option
	IT Breadth Option
LWB136	Contracts A
LWB238	Fundamentals of Criminal Law

Year 2, Semester 2	
	IT Breadth Option
	IT Breadth Option
LWB137	Contracts B
LWB239	Criminal Responsibility

Year 3, Semester 1	
INB201	Scalable Systems Development
	IT Specialist Option
LWB240	Principles of Equity
LWB243	Property Law A

Year 3, Semester 2	
INB300	Professional Practice in IT
	IT Specialist Option
LWB241	Trusts
LWB244	Property Law B

Year 4, Semester 1	
INB301	The Business of IT
	IT Specialist Option
LWB242	Constitutional Law
LWB432	Evidence

Year 4, Semester 2	
INB302	IT Capstone Project
	IT Specialist Option

| 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

IT Breadth Option Unit List

IT Breadth Option Units

You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.

INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Foundations of Computer Science
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.

1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:

INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB343	Advanced Data Mining and Data Warehousing
INB344	Search Engine Technology
3.	DIGITAL ENVIRONMENTS:
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB335	Information Resources
4.	ENTERPRISE SYSTEMS:
INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
5.	NETWORK SYSTEMS:
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks
6.	SOFTWARE ENGINEERING:
INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development
INB374	Enterprise Software Architecture
7.	WEB TECHNOLOGIES:
INB313	Electronic Commerce Site Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
8.	UNGROUPED:
INB204	Special Topic 1
INB205	Special Topic 2
INB304	Special Topic 3
INB305	Special Topic 4
INB306	Project 1
INB307	Project 2
INB308	Project 3
INB355	Cryptology and Protocols
INB365	Systems Programming
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
INB860	Computational Intelligence for Control and Embedded Systems

Law Elective Information

Law Electives

Further information regarding Law Electives can be found at: http://www.law.qut.edu.au/study/courses/ugrad/lselect.jsp

Transitional notes for law units for students who have transferred from IF38 to IX53

* LWB142 and LWB144 are now law contextual elective units.
* LWB145 Legal Foundations A was LWB141 Legal Institutions and Method.
* LWB146 Legal Foundations B was LWB143 Legal Research and Writing (prerequisite LWB141).
* LWB147 Torts A was LWB138 Fundamentals of Torts.
* LWB148 Torts B was LWB139 Select Issues in Torts (prerequisite LWB138).
* LWB242 Constitutional Law was LWB231 Introduction to Public Law and LWB235 Australian Federal Constitutional Law.
* LWB243 Property Law was LWB236 Real Property A (prerequisite LWB143 & LWB240).
* LWB244 Property Law B was LWB237 Real Property B (prerequisite LWB236).
* LWB333 Theories of Law is now an elective unit.
* LWB335 Administrative Law was LWB331 Administrative is now (prerequisite LWB231).
* LWB434 Advanced Research and Legal Reasoning is now LWB435 Legal Research in Practice (prerequisite LWB143/LWB145) and it is now an elective unit.

IX53 - Bachelor of Information Technology/Bachelor of Laws Course structure 2010

Year 1, Semester 1

INB101	Impact of IT
INB102	Emerging Technology
LWB145	Legal Foundations A
LWB147	Torts A

Year 1, Semester 2

INB103	Industry Insights
INB104	Building IT Systems
LWB146	Legal Foundations B
LWB148	Torts B

Year 2, Semester 1

	IT Breadth Option
	IT Breadth Option
LWB136	Contracts A
LWB238	Fundamentals of Criminal Law

Year 2, Semester 2

	IT Breadth Option
	IT Breadth Option
LWB137	Contracts B
LWB239	Criminal Responsibility

Year 3, Semester 1

INB201	Scalable Systems Development
	IT Specialist Option
LWB240	Principles of Equity
LWB243	Property Law A

Year 3, Semester 2

INB300	Professional Practice in IT
	IT Specialist Option
LWB241	Trusts
LWB244	Property Law B

Year 4, Semester 1

INB301	The Business of IT
	IT Specialist Option
LWB242	Constitutional Law
LWB432	Evidence

Year 4, Semester 2

INB302	Capstone Project
	IT Specialist Option
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

Bachelor of Laws Elective List - Odd Years Offerings

Important Information

These offerings are current at time of publication but are subject to change.

The elective interest groups are provided to

assist you in choosing electives that align with your career interests. You are not limited to selection from any one group, you can select from a range of elective interest groups.

The offering of elective units is subject to sufficient student enrolment numbers and staff availability.

As a guide, when a unit is offered during the day in one semester, it will be offered during the evening the next time it is offered and vice versa (subject to staff and room availability and offering a spread of units across day and night in each semester).

Before enrolling in an 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 at https://qutvirtual.qut.edu.au/portal/pls/portal/un out_search_p.show.

All units on this list are offered in internal and external mode unless noted otherwise.

Semester 1 units:

Contextual +

LWB142   Law, Society and Justice

Property and Environmental

LWB485   Environmental Law

Commercial and Consumer

LWB307   Insolvency Law

LWB364   Introduction to Taxation Law

LWB366   Law of Commercial Entities

Intellectual Property and Technology

LWB486   Intellectual Property Law

Human Rights

LWB142   Law, Society and Justice

LWB313   Discrimination & Equal Opportunity Law

LWB309   Succession

Legal Skills

LWB418   Competition Moots 1

LWB419   Competition Moots 2

Entry for LWB418 and LWB419 is subject to being selected into a team to compete in one of the external mooting competitions that the QUT Law School will enter. Enrolments will be called for at a later date via e-mail.

Internal mode only.

LWB498   Dispute Resolution and Non-adversarial Practice

Research and Theory

LWB435   Legal Research in Practice

LWB497   Advanced Research Project

Application forms and guidelines can be found

at http://www.law.qut.edu.au/study/forms.jsp and must be lodged at the Level 4 Reception C Block QUT Gardens Point. Forms must be submitted no later than 2 weeks prior to the commencement of semester

Internal mode only.

Work Integrated Learning

LWB420   Internship

Any student wishing to undertake this unit in Semester 1 must fill out the registration form available at http://www.law.qut.edu.au/study/forms.jsp and lodge it at the Level 4 Reception C Block QUT Gardens Point. This process is to register your interest only. It does not guarantee a place on the enrolment quota list. However, to be eligible for selection for this unit, you must register your interest on this list a selection process will then follow and you will be advised of the outcome by email. No other method of enrolment will be approved or accepted for this unit.

Applications for 2011 have closed

Internal mode only.

Semester 2 units:

Contextual +

LWB144   Laws and Global Perspectives

LWB150   Lawyering and Dispute Resolution

LWB149   Indigenous Legal Issues

Property and Environmental

LWB312   Real Estate Transactions

LWB489   Native Title Law and Practice

Commercial and Consumer

LWB410   Competition Law

* see notes below

LWB367   Law of Corporate Governance

* see notes below

Intellectual Property and Technology

LWB482   Internet Law

LWB423   Intellectual Property and Technology Law Clinic

Internal mode only.

Human Rights

LWB149   Indigenous Legal Issues

LWB302   Family Law

LWB308   Australian Employment Law

* see notes below

LWB483   Medico-Legal Issues

LWB496   Australian and Comparative Human Rights Law

International

LWB144   Laws and Global Perspectives

LWB406   Fundamentals of Public International Law

LWB407   Private International Law

Legal Skills

LWB150   Lawyering and Dispute Resolution

LWB356   Advocacy

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au. The number of student enrolments in this unit may be capped. External students are not excluded from undertaking this unit, provided that they are able to meet all attendance requirements. Final year students and students who have not had the opportunity to undertake other skills or work integrated learning units will be given preference.

Block mode only.

LWB361   Drafting

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au. The number of student enrolments in this unit may be capped. External students are not excluded from undertaking this unit, provided that they are able to meet all attendance requirements. Final year students and students who have not had the opportunity to undertake other skills or work integrated learning units will be given preference.

LWB413   Queensland Parliamentary Internship Program

This unit is for final year students only. There is a limited number of internships available and therefore enrolment in this unit is subject to approval by the unit co-ordinator. Interested students should contact John Pyke (j.pyke@qut.edu.au). NOTE: Due to complications in the Parliamentary calendar there may be no internships available in 2011. Please contact John Pyke for further information.

Internal mode only.

LWB418   Competition Moots 1

LWB419   Competition Moots 2

Entry to LWB418 and LWB419 is subject to being selected into a team to compete in one of the external mooting competitions that the QUT Law School will enter.

Internal mode only.

Research and Theory

LWB497   Advanced Research Project

Application forms and guidelines can be found at http://www.law.qut.edu.au/study/forms.jsp and must be lodged at the Level 4 Reception C Block QUT Gardens Point. Forms must be submitted no later than 2 weeks prior to the commencement of semester.

Internal mode only.

Work Integrated Learning

LWB421   Learning in Professional Practice

(Prior to enrolment in LWB421 students must have organised a legal professional placement as set out in the unit outline).

LWB422   Virtual Law Placement

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au.

LWB456   Legal Clinic (Organised Program)

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au.

Internal mode only.

LWB423   Intellectual Property and Technology Law Clinic

Notes:

+ The units LWB142 Law Society and Justice, LWB149 Indigenous Legal Issues, LWB144 Laws and Global Perspectives and LWB150 Dispute Resolution appear twice as they are contextual elective choices in first year, if you are completing a straight law degree (LW34). They are also elective choices within the various elective interest groups that can be undertaken in any year of your degree.

*these starred units are alternating units and will generally only be offered in odd years. Alternating units which are generally offered in even years include: LWB333Theories of Law; LWB459 Commercial & Consumer Law; LWB359 Advanced Taxation Law; LWB463 Immigration & Refugee Law; LWB480 Media Law and LWB494 Principles of Sentencing. The offering of these units will be subject to student demand and staff availability.

For further information on the Work Integrated Learning (Work Placement) units see: http://www.law.qut.edu.au/about/wil/ and http://www.law.qut.edu.au/about/wil/faq.jsp

Restricted Entry Units have quota limits imposed. Although students are able to enrol in these units on-line no places are guaranteed until after the applications are closed.

External students are not excluded from undertaking these units, provided that they are able to meet all the attendance requirements.

Bachelor of Laws Elective List - Even Years Offerings

Important Information

These offerings are current at time of publication but are subject to change.

The elective interest groups are provided to assist you in choosing electives that align with your career interests. You are not limited to selection from any one group, you can select from a range of elective interest groups.

The offering of elective units is subject to sufficient student enrolment numbers and staff availability.

As a guide, when a unit is offered during the day in one semester, it will be offered during

the evening the next time it is offered and vice versa (subject to staff and room availability and offering a spread of units across day and night in each semester).

Before enrolling in an 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 at https://qutvirtual.qut.edu.au/portal/pls/portal/un out_search_p.show.

All units on this list are offered in internal and external mode unless noted otherwise.

Semester 1 units:

Contextual +

LWB142   Law, Society and Justice

LWB150   Lawyering and Dispute Resolution

Property and Environmental

LWB485   Environmental Law

Commercial and Consumer

LWB307   Insolvency Law

LWB364   Introduction to Taxation Law

LWB366   Law of Commercial Entities

LWB459   Commercial and Consumer Law

         * see notes below

Intellectual Property and Technology

LWB486   Intellectual Property Law

LWB499   Creative Commons Clinic

         (needs restricted entry info)

         Block mode only.

Human Rights

LWB142   Law, Society and Justice

LWB313   Discrimination & Equal Opportunity Law

LWB309   Succession

LWB460   Sports Law

Legal Skills

LWB418   Competition Moots 1

LWB419   Competition Moots 2

         Entry for LWB418 and LWB419 is subject to being selected into a team to compete in one of the external mooting competitions that the QUT Law School will enter. Enrolments will be called for at a later date via e-mail.

         Internal mode only. Closing date for applications: Enrolments will be called for at a later date via e-mail.

LWB498   Dispute Resolution and Non-adversarial Practice

Research and Theory

LWB435   Legal Research in Practice

LWB497   Advanced Research Project

         Application forms and guidelines can be found at http://www.law.qut.edu.au/study/forms.jsp and must be lodged at the Level 4 Reception C Block QUT Gardens Point. Forms must be submitted no later than 2 weeks prior to the commencement of semester

         Internal mode only. Closing Date for Applications: Forms must be submitted no later than 2 weeks prior to the commencement of semester

LWB333   Theories of Law

         * see notes below

Work Integrated Learning

LWB420   Internship

         Any student wishing to undertake this unit in Semester 1 must fill out the registration form available at http://www.law.qut.edu.au/study/forms.jsp and lodge it at the Level 4 Reception C Block QUT Gardens Point. This process is to register your interest only. It does not guarantee a place on the enrolment quota list. However, to be eligible for selection for this unit, you must register your interest on this list a selection process will then follow and you will be advised of the outcome by email. No other method of enrolment will be approved or accepted for this unit.

         Internal mode only. Closing date for applications: 5pm Thursday 18 October 2011

Semester 2 units:

Contextual +

LWB144   Laws and Global Perspectives

LWB149   Indigenous Legal Issues

Property and Environmental

LWB312   Real Estate Transactions

LWBXXX   Climate Change Law

Commercial and Consumer

LWB359   Advanced Taxation Law

         * see notes below

LWB363   Insurance Law

LWBXXX   Consumer Financial Services Law and Regulation

Intellectual Property and Technology

LWB482   Internet Law

LWB423   Intellectual Property and Technology Law Clinic

         Internal mode only.

LWB480   Media Law

         * see notes below

Human Rights

LWB149   Indigenous Legal Issues

LWB302   Family Law

LWB494   Principles of Sentencing

* see notes below

LWB463   Immigration and Refugee Law

* see notes below

International

LWB144   Laws and Global Perspectives

LWB406   Fundamentals of Public International Law

Legal Skills

LWB356   Advocacy

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au. The number of student enrolments in this unit may be capped. External students are not excluded from undertaking this unit, provided that they are able to meet all attendance requirements. Final year students and students who have not had the opportunity to undertake other skills or work integrated learning units will be given preference.

Block mode only. Closing Date for Applications: 5pm Thursday 19 April 2011

LWB413   Queensland Parliamentary Internship Program

This unit is for final year students only. There is a limited number of internships available and therefore enrolment in this unit is subject to approval by the unit co-ordinator. Interested students should contact John Pyke (j.pyke@qut.edu.au). NOTE: Due to complications in the Parliamentary calendar there may be no internships available in 2011. Please contact John Pyke for further information.

Internal mode only. Closing Date for Applications: End of May 2012

LWB418   Competition Moots 1

Entry is subject to being selected into a team to compete in one of the external mooting competitions that the QUT Law School will enter.

Internal mode only. Closing date for applications: Enrolments will be called for at a later date via e-mail.

Research and Theory

LWB497   Advanced Research Project

Application forms and guidelines can be found at http://www.law.qut.edu.au/study/forms.jsp and must be lodged at the Level 4 Reception C Block QUT Gardens Point. Forms must be submitted no later than 2 weeks prior to the commencement of semester.

Internal mode only. Closing Date for Applications: Forms must be submitted no later than 2 weeks prior to the commencement of semester.

Work Integrated Learning

LWB421   Learning in Professional Practice

(Prior to enrolment in LWB421 students must have organised a legal professional placement as set out in the unit outline).

LWB422   Virtual Law Placement

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au.

Closing Date for Applications: 5pm Thursday 19 April 2011

LWB456   Legal Clinic (Organised Program)

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au.

Internal mode only. Closing Date for Applications: 5pm Thursday 19 April 2011

LWB423   Intellectual Property and Technology Law Clinic

Places in this unit are limited. Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au. A particular selection process will then follow.

Internal mode only. Closing Date for Applications: 5pm Thursday 19 April 2011

Notes:

+ The units LWB142 Law Society and Justice, LWB149 Indigenous Legal Issues, LWB144 Laws and Global Perspectives and LWB150 Dispute Resolution appear twice as they are contextual elective choices in first year, if you are completing a straight law degree (LW34). They are also elective choices within the various elective interest groups that can be undertaken in any year of your degree.

*these starred units are alternating units and will generally only be offered in even years. Alternating units which are generally offered in even years include: LWB489 Native Title and Cultural Heritage Law; LWB410 Comparative Law; LWB367 Law of Corporate Governance; LWB308 Australian Employment Law; LWB483 Medico-Legal Issues and LWB496 Human Rights Law. The offering of these units will be subject to student demand and staff availability.

For further information on the Work Integrated Learning (Work Placement) units see: http://www.law.qut.edu.au/about/wil/ and http://www.law.qut.edu.au/about/wil/faq.jsp

Restricted Entry Units have quota limits imposed. Although students are able to enrol in these units on-line no places are guaranteed until after the applications are closed.

External students are not excluded from undertaking these units, provided that they are able to meet all the attendance requirements.

Bachelor of Laws Summer Units

Important Information

These offerings are current at time of publication but are subject to change.

The offering of elective units is subject to

sufficient student enrolment numbers and staff availability.

Undergraduate Core Units

LWB239	Criminal Responsibility
LWB241	Trusts
LWB244	Property Law B
LWB334	Corporate Law
LWB335	Administrative Law
LWB431	Civil Procedure
LWB432	Evidence
LWB433	Professional Responsibility

Undergraduate Elective Units

LWB302	Family Law
LWB364	Introduction to Taxation Law
LWB421	Learning in Professional Practice
LWB486	Intellectual Property Law
LWB498	Dispute Resolution and Non-adversarial Practice

Graduate destination streams

Legal Practice

Electives that may be offered by the Law School that are particularly relevant to students considering a future career in legal practice include:

LWB302	Family Law
LWB307	Insolvency Law
LWB308	Australian Employment Law
LWB309	Succession
LWB312	Real Estate Transactions
LWB313	Discrimination & Equal Opportunity Law
LWB356	Advocacy
LWB359	Advanced Taxation Law
LWB361	Drafting
LWB363	Insurance Law
LWB364	Introduction to Taxation Law
LWB407	Private International Law
LWB410	Competition Law
LWB418	Competition Moots 1
LWB435	Legal Research in Practice
LWB454	Banking and Finance Law
LWB459	Commercial and Consumer Law
LWB460	Sports Law
LWB463	Immigration and Refugee Law
LWB480	Media Law
LWB482	Internet Law
LWB483	Medico-Legal Issues
LWB485	Environmental Law

LWB486	Intellectual Property Law
LWB489	Native Title Law and Practice
LWB494	Principles of Sentencing
LWB496	Australian and Comparative Human Rights Law
LWB498	Dispute Resolution and Non-adversarial Practice
LWB499	Creative Commons Clinic
LWBXXX	Consumer and Financial Services Law
LWBXXX	Climate Change Law

Public Sector

Electives that may be offered by the Law School that are particularly relevant to students considering a future career in the public sector include:

LWB333	Theories of Law
LWB406	Fundamentals of Public International Law
LWB413	Queensland Parliamentary Internship Program
LWB420	Internship
LWB463	Immigration and Refugee Law
LWB485	Environmental Law
LWB486	Intellectual Property Law
LWB494	Principles of Sentencing
LWB496	Australian and Comparative Human Rights Law
LWB499	Creative Commons Clinic

Private Enterprise

Electives that may be offered by the Law School that are particularly relevant to students considering a future career in the private sector include:

LWB308	Australian Employment Law
LWB366	Law of Commercial Entities
LWB367	Law of Corporate Governance
LWB410	Competition Law
LWB421	Learning in Professional Practice

Placement Electives

Electives which involve students undertaking real world professional experience include:

LWB413	Queensland Parliamentary Internship Program
LWB420	Internship
LWB421	Learning in Professional Practice
LWB422	Virtual Law Placement
LWB423	Intellectual Property and Technology Law Clinic

Potential Careers:

Barrister, Crown Law Officer, Database Manager, Electronic Commerce Developer, In-House Lawyer, Lawyer, Programmer, Public Servant, Software Engineer, Solicitor, Systems Analyst, Systems Manager, Systems Programmer,

Web Designer.

Bachelor of Engineering (Electrical)/Bachelor of Information Technology (IX54)

Year offered: 2011
Admissions: Yes
CRICOS code: 006384G
Course duration (full-time): 5 years
Domestic fees (indicative): 2011: CSP $3,878 (indicative) per semester
International Fees (indicative): 2011: $11,875 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419512
Past rank cut-off: 81
Past OP cut-off: 10
OP Guarantee: Yes
Assumed knowledge: English (4,SA) and Maths B (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 480
Course coordinator: Dr R.Mahalinga-Iyer (Engineering), Mr Mike Roggenkamp (Science & Technology)
Discipline coordinator: Dr Jasmine Banks (Engineering), Mr Richard Thomas (Information Technology Major)
Campus: Gardens Point

Overview

Electrical engineers design, install and maintain electrical, electronic, telecommunications and computing systems on behalf of government and private companies.

This double degree gives you the skills to become a computer and electronic engineer suited to the development and application of consumer electronics (like mobile devices, iPods, DVD players and CD players) and electronic and computer systems (like traffic lights, ATMs and mobile networks). The engineering component consists of studies in electronic systems engineering and integrates with the information technology component to give you a wide and advanced study of modern electronic and computing systems.

Career Outcomes

As a graduate you may find employment in areas such as communications, railways, electricity supply, hospitals, transport and in organisations that use electronics, electronic systems, computers and microprocessors to monitor, control, communicate and optimise processes and production in areas such as mining and aerospace.

Professional Recognition

This course meets the requirements for membership of Engineers Australia (EA). EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world. This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Other Course Requirements

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

Cooperative Education Program

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

Find out more about the Cooperative Education Program.

Pathways to Further Studies

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

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

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 on deferment.

Further Information

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

Engineering Coordinator
Phone +61 7 3138 1993
Fax +61 7 3138 1516
email: bee.enquiries@qut.edu.au

Science and Technology Coordinator
Phone +61 7 3138 2782

Fax +61 7 3138 2703
email: enquiry.scitech@qut.edu.au

Full-time Course structure – Students commencing in 2011

Year 1, Semester 1	
ENB100	Engineering and Sustainability
	OR
INB103	Industry Insights
INB104	Building IT Systems
INB101	Impact of IT
MAB125	Foundations of Engineering Mathematics
	OR
MAB126	Mathematics for Engineering 1

Year 1, Semester 2	
ENB120	Electrical Energy and Measurements
ENB200	Introducing Engineering Systems
INB102	Emerging Technology
MAB126	Mathematics for Engineering 1
	OR
MAB127	Mathematics for Engineering 2

Year 2, Semester 1	
ENB240	Introduction To Electronics
ENB130	Mechanical and Thermal Energy
ENB250	Electrical Circuits
MAB127	Mathematics for Engineering 2
	OR
MAB233	Engineering Mathematics 3

Year 2, Semester 2	
ENB150	Introducing Engineering Design
ENB242	Introduction To Telecommunications
ENB243	Linear Circuits and Systems
	IT Breadth Option Unit

Year 3, Semester 1	
ENB110	Engineering Statics and Materials
ENB340	Power Systems and Machines
	IT Breadth Option Unit
	IT Breadth Option Unit

Year 3, Semester 2	
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice
ENB343	Fields, Transmission and Propagation
	IT Breadth Option Unit

Year 4, Semester 1	

ENB301	Instrumentation and Control
INB301	The Business of IT
ENB342	Signals, Systems and Transforms
INB201	Scalable Systems Development

Year 4, Semester 2	
ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
MAB233	Engineering Mathematics 3
	OR
	Electrical Engineering Selective
	IT Specialist Option Unit

Year 5, Semester 1	
ENB346	Digital Communications
	OR
ENB350	Real-time Computer-based Systems
BEB801	Project 1
	OR
INB309-1	Major Project
	IT Specialist Option Unit
	IT Specialist Option Unit

Year 5, Semester 2	
BEB701	Work Integrated Learning 1
BEB802	Project 2
	OR
INB309-2	Major Project
	IT Specialist Option Unit
	Electrical Engineering Selective

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

Full-time Course structure – Students commencing in 2010

Year 1, Semester 1	
ENB100	Engineering and Sustainability
	OR
INB103	Industry Insights
ENB120	Electrical Energy and Measurements
INB104	Building IT Systems
MAB125	Foundations of Engineering Mathematics

	OR
MAB126	Mathematics for Engineering 1

Year 1, Semester 2

ENB200	Introducing Engineering Systems
ENB130	Mechanical and Thermal Energy
INB102	Emerging Technology
MAB126	Mathematics for Engineering 1
	OR
MAB127	Mathematics for Engineering 2

Year 2, Semester 1

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
	OR
INB101	Impact of IT
ENB250	Electrical Circuits
MAB127	Mathematics for Engineering 2
	OR
MAB233	Engineering Mathematics 3

Year 2, Semester 2

ENB150	Introducing Engineering Design
ENB242	Introduction To Telecommunications
ENB243	Linear Circuits and Systems
	IT Breadth Option Unit

Year 3, Semester 1

ENB110	Engineering Statics and Materials
ENB241	Software Systems Design
	IT Breadth Option Unit
	IT Breadth Option Unit

Year 3, Semester 2

ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice
ENB343	Fields, Transmission and Propagation
	IT Breadth Option Unit

Year 4, Semester 1

ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
INB201	Scalable Systems Development

Year 4, Semester 2

ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
MAB233	Engineering Mathematics 3
	OR

	Electrical Engineering Selective
	IT Specialist Option Unit

Year 5, Semester 1

ENB346	Digital Communications
	OR
ENB350	Real-time Computer-based Systems
BEB801	Project 1
	OR
INB309-1	Major Project
INB301	The Business of IT
	IT Specialist Option Unit

Year 5, Semester 2

BEB701	Work Integrated Learning 1
BEB802	Project 2
	OR
INB309-2	Major Project
	IT Specialist Option Unit
	IT Specialist Option 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

Full-time Course structure – Students commencing in 2009

Year 1, Semester 1

BEB100	Introducing Professional Learning
	OR
INB103	Industry Insights
INB104	Building IT Systems
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B
PCB136	Engineering Physics 1C

Year 1, Semester 2

BEB200	Introducing Sustainability
ENB103	Electrical Engineering
INB102	Emerging Technology
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B

Year 2, Semester 1

ENB101	Engineering Mechanics 1
ENB104	Engineering Materials
ENB240	Introduction To Electronics
ENB242	Introduction To Telecommunications

Year 2, Semester 2

ENB243	Linear Circuits and Systems
INB101	Impact of IT
INB270	Programming
	IT Breadth Option Unit

Year 3, Semester 1

ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
MAB233	Engineering Mathematics 3
	IT Breadth Option Unit

Year 3, Semester 2

ENB241	Software Systems Design
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice
	IT Breadth Option Unit

Year 4, Semester 1

ENB301	Instrumentation and Control
ENB350	Real-time Computer-based Systems
INB201	Scalable Systems Development
	IT Specialist Option Unit

Year 4, Semester 2

ENB343	Fields, Transmission and Propagation
ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications

Year 5, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
	OR
INB309-1	Major Project
INB301	The Business of IT
	IT Specialist Option Unit

Year 5, Semester 2

BEB802	Project 2
	OR
INB309-2	Major Project
	IT Specialist Option Unit
	IT Specialist Option Unit

Electrical Engineering Selective

Electrical Engineering Selectives

ENB231	Materials and Manufacturing 1
ENB334	Design For Manufacturing
ENB339	Introduction to Robotics
ENB350	Real-time Computer-based Systems
ENB352	Communication Environments For Embedded Systems
ENB436	Mechatronics System Design
ENB440	RF Techniques and Modern Applications
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
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
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

IT Breadth Option Unit List

IT Breadth Option Units

You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.

INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Foundations of Computer Science
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.

1.   BUSINESS PROCESS MANAGEMENT:

INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB343	Advanced Data Mining and Data Warehousing
INB344	Search Engine Technology
3.	DIGITAL ENVIRONMENTS:
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB335	Information Resources
4.	ENTERPRISE SYSTEMS:
INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
5.	NETWORK SYSTEMS:
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks
6.	SOFTWARE ENGINEERING:
INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development
INB374	Enterprise Software Architecture
7.	WEB TECHNOLOGIES:
INB313	Electronic Commerce Site Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
8.	UNGROUPED:
INB204	Special Topic 1
INB205	Special Topic 2
INB304	Special Topic 3
INB305	Special Topic 4
INB306	Project 1
INB307	Project 2
INB308	Project 3
INB355	Cryptology and Protocols
INB365	Systems Programming
INB381	Modelling and Animation Techniques

INB382	Real Time Rendering Techniques
INB860	Computational Intelligence for Control and Embedded Systems

Potential Careers:

Computer Systems Engineer, Electrical and Computer Engineer, Electrical Engineer, Engineer.

Bachelor of Applied Science(Study Area A)/Bachelor of Information Technology (IX55)

Year offered: 2011
Admissions: Yes
CRICOS code: 020327M
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,300 (indicative) per semester
International Fees (indicative): 2011: $11,875 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 418322
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Course coordinator: Dr Perry Hartfield (Science), Mr Mike Roggenkamp (Information Technology)
Discipline coordinator: Dr Perry Hartfield (Biochemistry Major); Dr Marion Bateson (Biotechnology Major); Dr John McMurtrie (Chemistry Major); Dr Ian Williamson (Ecology Major); Dr Robin Thwaites (Environmental Science Major); Dr Emad Kiriakous (Forensic Science Major); Dr Gary Huftile (Geoscience Major); Dr Christine Knox (Microbiology Major); Dr Greg Michael (Physics Major)
Campus: Gardens Point

Course Overview

This double degree prepares you for an increasing range of careers that involve the application of information technology to science. It gives you the ability to use creative as well as analytical methods to solve scientific problems. Studying this double degree allows you to develop the technical skills required for your relevant field of study in applied science.

The science component of the course offers you the choice of majoring in biochemistry, biotechnology, chemistry, ecology, environmental science, forensic science, geosciences, microbiology or physics. Theoretical aspects are balanced by strong practical components in this science and information technology double degree.

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 escience. As a graduate, you can expect to work in roles such as a scientific modeller, engineering software developer, scientific programmer, and computational scientist.

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.

Professional Recognition

This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord. Please refer to the Science pages at Studyfinder for more information on the relevant professional body for your chosen science major.

Study Areas

IX55 will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate's parchment. Instead, IX55 will have specialisations. The specialisation areas that will be available for students will include:
• Business Process Management
• Data Warehousing
• Digital Societies
• Enterprise Systems
• Information Management
• Network Systems
• Software Engineering
• Web Technologies

Cooperative Education

The Faculty's Cooperative Education Program gives you the opportunity of 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 BIT degree (or double degree) which would be counted both for completion of the degree and towards the Honours program. The program also provided students with the opportunity to commence their Honours studies over the Summer Semester.

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

Further Information

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

Science Coordinator
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au

Information Technology Coordinator
Mr Richard Thomas
Phone +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Discipline Coordinators

Biochemistry
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au

Biotechnology
Dr Marion Bateson
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au

Chemistry
Dr John McMurtrie
Phone: +61 7 3138 1220
Email: j.mcmurtrie@qut.edu.au

Ecology
Dr Ian Williamson
Phone: +61 7 3138 2779
Email: i.williamson@qut.edu.au

Environmental Science
Dr Robin Thwaites
Phone: +61 7 3138 2400
Email: r.thwaites@qut.edu.au

Forensic Science
Dr Emad Kiriakous
Phone: +61 7 3138 2501
Email: e.kiriakous@qut.edu.au

Geoscience
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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 on deferment.

IX55 Bachelor of Applied Science/Bachelor of Information Technology Course structure

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
	Science Core Unit
	Science Core Unit

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems
	Science Core Unit
	Science Core Unit

Year 2, Semester 1	
	IT Breadth Unit Option
	IT Breadth Unit Option
	Science Core Unit
	Science Core Unit

Year 2, Semester 2	
	IT Breadth Unit Option
	IT Breadth Unit Option
	Science Core Unit
	Science Core Unit

Year 3, Semester 1	
INB201	Scalable Systems Development
	IT Specialisation Unit Option
	Science Major Unit
	Science Major Unit

Year 3, Semester 2	
INB300	Professional Practice in IT
	IT Specialisation Unit Option
	Science Major Unit
	Science Major Unit

Year 4, Semester 1	
INB301	The Business of IT
	IT Specialisation Unit Option
	Science Major Unit
	Science Major Unit

Year 4, Semester 2	

INB302	IT Capstone Project
	IT Specialisation Unit Option
	Science Major Unit
	Science Major Unit

IT Breadth Option Unit List

IT Breadth Option Units

You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.

INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Foundations of Computer Science
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.

1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB343	Advanced Data Mining and Data Warehousing
INB344	Search Engine Technology
3.	DIGITAL ENVIRONMENTS:
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB335	Information Resources
4.	ENTERPRISE SYSTEMS:
INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB312	Enterprise Systems Applications

5.	NETWORK SYSTEMS:
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks
6.	SOFTWARE ENGINEERING:
INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development
INB374	Enterprise Software Architecture
7.	WEB TECHNOLOGIES:
INB313	Electronic Commerce Site Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
8.	UNGROUPED:
INB204	Special Topic 1
INB205	Special Topic 2
INB304	Special Topic 3
INB305	Special Topic 4
INB306	Project 1
INB307	Project 2
INB308	Project 3
INB355	Cryptology and Protocols
INB365	Systems Programming
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
INB860	Computational Intelligence for Control and Embedded Systems

Course structure - Major in Biochemistry

Year 1, Semester 1

| SCB111 | Chemistry 1 |
| SCB112 | Cellular Basis of Life |

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

| SCB120 | Plant and Animal Physiology |
| SCB121 | Chemistry 2 |

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

| SCB122 | Cell and Molecular Biology |

SCB123   Physical Science Applications

Year 3, Semester 1

LQB381   Biochemistry: Structure and Function

LQB383   Molecular and Cellular Regulation

Year 3, Semester 2

LQB481   Biochemical Pathways and Metabolism

LQB483   Molecular Biology Techniques

Year 4, Semester 1

LQB581   Functional Biochemistry

LQB582   Biomedical Research Technologies

Year 4, Semester 2

LQB681   Biochemical Research Skills

LQB682   Protein Biochemistry and Bioengineering

Course structure - Major in Biotechnology

Year 1, Semester 1

SCB111   Chemistry 1

SCB112   Cellular Basis of Life

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

SCB120   Plant and Animal Physiology

SCB121   Chemistry 2

Year 2, Semester 1

SCB110   Science Concepts and Global Systems
          Either
MAB101   Statistical Data Analysis 1
          Or
MAB105   Preparatory Mathematics

Year 2, Semester 2

SCB122   Cell and Molecular Biology

SCB123   Physical Science Applications

Year 3, Semester 1

LQB381   Biochemistry: Structure and Function

LQB383   Molecular and Cellular Regulation

Year 3, Semester 2

LQB483   Molecular Biology Techniques

LQB484   Introduction to Genomics and Bioinformatics

Year 4, Semester 1

          Select TWO units from:
LQB583   Genetic Research Technology

LQB584   Medical Cell Biology

LQB585   Plant Genetic Manipulation

Year 4, Semester 2

          Select TWO units from:
LQB682   Protein Biochemistry and Bioengineering

LQB684   Medical Biotechnology

LQB685   Plant Microbe Interactions

Course structure - Major in Chemistry

Year 1, Semester 1

SCB111   Chemistry 1
          Either
MAB101   Statistical Data Analysis 1
          Or
MAB105   Preparatory Mathematics

Year 1, Semester 2 (Chemistry Pre-Major Strand)

SCB112   Cellular Basis of Life

SCB121   Chemistry 2

Year 2, Semester 1

MAB120   Algebra and Calculus

SCB110   Science Concepts and Global Systems

Year 2, Semester 2

SCB123   Physical Science Applications

SCB131   Experimental Chemistry

Year 3, Semester 1

PQB312   Analytical Chemistry For Scientists and Technologists

PQB331   Structure and Bonding

Year 3, Semester 2

PQB401   Reaction Kinetics, Thermodynamics and Mechanisms

PQB442   Chemical Spectroscopy

Year 4, Semester 1

PQB502   Advanced Physical Chemistry

PQB531   Organic Mechanisms and Synthesis

Year 4, Semester 2

PQB631   Advanced Inorganic Chemistry

PQB642   Chemical Research

Course structure - Major in Ecology

Year 1, Semester 1

SCB111   Chemistry 1

SCB112   Cellular Basis of Life

Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)

SCB120   Plant and Animal Physiology

SCB122   Cell and Molecular Biology

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Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

NQB201	Planet Earth
NQB202	History of Life on Earth

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2

NQB421	Experimental Design
NQB422	Genetics and Evolution

Year 4, Semester 1

NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management

Year 4, Semester 2

NQB622	Conservation Biology
NQB623	Ecological Systems

Course structure - Major in Environmental Science

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

NQB202	History of Life on Earth
SCB123	Physical Science Applications

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2

NQB403	Soils and the Environment
NQB421	Experimental Design

Year 4, Semester 1

NQB501	Environmental Modelling
NQB502	Field Methods in Natural Resource Sciences

Year 4, Semester 2

NQB601	Sustainable Environmental Management
NQB602	Environmental Chemistry

Course structure - Major in Forensic Science

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2 (Forensic Science Pre-Major Strand)

SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

SCB123	Physical Science Applications
SCB131	Experimental Chemistry

Year 3, Semester 1

LQB383	Molecular and Cellular Regulation
SCB384	Forensic Sciences - From Crime Scene to Court

Year 3, Semester 2

JSB979	Forensic Scientific Evidence
PQB312	Analytical Chemistry For Scientists and Technologists

Year 4, Semester 1

PQB513	Instrumental Analysis
PQB584	Forensic Physical Evidence

Year 4, Semester 2

LQB680	Forensic DNA Profiling
PQB684	Forensic Analysis

Course structure - Major in Geoscience

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2 (Geoscience Pre-Major Strand)

NQB201	Planet Earth
SCB123	Physical Science Applications

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

NQB202	History of Life on Earth
SCB222	Exploration of the Universe

Year 3, Semester 1

NQB311	Mineralogy
NQB314	Sedimentary Geology

Year 3, Semester 2

NQB411	Petrology of Igneous and Metamorphic Rocks
NQB412	Structural Geology and Field Methods

Year 4, Semester 1

NQB502	Field Methods in Natural Resource Sciences
NQB513	Geophysics

Year 4, Semester 2

NQB613	Plate Tectonics
NQB615	Geochemistry

Course structure - Major in Microbiology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

SCB122	Cell and Molecular Biology

SCB123	Physical Science Applications

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB386	Microbial Structure and Function

Year 3, Semester 2

LQB483	Molecular Biology Techniques
LQB486	Clinical Microbiology 1

Year 4, Semester 1

LQB586	Clinical Microbiology 2
LQB587	Applied Microbiology 1: Water, Air and Soil

Year 4, Semester 2

LQB686	Microbial Technology and Immunology
LQB687	Applied Microbiology 2: Food and Quality Assurance

Course structure - Major in Physics

Year 1, Semester 1

MAB121	Calculus and Differential Equations
	Or
MAB120	Algebra and Calculus
SCB111	Chemistry 1
	Students who have completed only Maths B are required to take MAB120. Students who have completed both Maths B and Maths C should take MAB121.

Year 1, Semester 2 (Physics Pre-Major Strand)

MAB122	Algebra and Analytic Geometry
PQB250	Mechanics and Electromagnetism

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB112	Cellular Basis of Life

Year 2, Semester 2

MAB220	Computational Mathematics 1
	Or
MAB121	Calculus and Differential Equations
PQB251	Waves and Optics

Year 3, Semester 1

MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 3, Semester 2

PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation

Year 4, Semester 1

PQB550	Quantum and Condensed Matter Physics

PQB551   Physical Analytical Techniques

Year 4, Semester 2

PQB650   Advanced Theoretical Physics

PQB651   Experimental Physics

Potential Careers:

Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Data Communications Specialist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist, Laboratory Technician (Chemistry), Marine Scientist, Medical Physicist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Network Administrator, Network Manager, Physicist, Plant Biotechnologist, Population Ecologist, Virologist.

Bachelor of Creative Industries/Bachelor of Information Technology (IX56)

Year offered: 2011
Admissions: Yes
CRICOS code: 059227E
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,300 (indicative) per semester
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 409872
Past rank cut-off: 86
Past OP cut-off: 8
OP Guarantee: Yes
Assumed knowledge: English (4,SA) and Maths A, B or C (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Head, Undergraduate Studies (Creative Industries); Mr Mike Roggenkamp (Science and Technology)
Campus: Gardens Point and Kelvin Grove

Course Overview

This double degree allows you to complement your technical skills with creative skills through digital media and film production. You will learn to merge the creative and imaginative with the technical to develop sophisticated and innovative digital products. You can choose to complement your skill set through a range of information technology and creative industries areas of interest to diversify your studies, including:
• animation
• art and design history
• creative and professional writing
• dance studies
• digital media
• entertainment industries
• entrepreneurship
• fashion
• film, television and screen game design
• interactive and visual design
• journalism, media and communication
• literary studies
• music
• online environments

Career Outcomes

As a graduate you can enjoy the more creative side of information technology careers including digital media programmer, simulation designer or developer, games producer or designer, sound designer, mobile entertainment and communications developer, user interface developer, knowledge worker in music and sound, web developer and digital product strategist.

Professional Recognition

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

Course Design

You will undertake the Bachelor of Creative Industries core units as well as one creative industries major. Your information technology degree component comprises eight core units, four breadth units, and four units in your information technology specialisation.

Study Areas

The Bachelor of Information Technology will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate's parchment. Instead, it will have specialisations. The specialisation areas that will be available for students will include:
• Business Process Management
• Data Warehousing
• Digital Societies
• Enterprise Systems
• Information Management
• Network Systems
• Software Engineering
• Web Technologies

Pathways to Futher 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.

International Students

English language requirements:
In addition to the above academic entry requirements, international students must meet the University's English language requirements of IELTS of 6.5 (with no lower than 6.0 for any one band).

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.

Unit Incompatibility/Translation Information

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

Further Information

For Further information about this course please contact the following:

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Creative Industries Coordinator
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Fax +61 7 3138 8116
Email: creativeindustries@qut.edu.au

Course structure for students who commenced in 2011

Year 1, Semester 1

INB101	Impact of IT
INB102	Emerging Technology
KKB101	Creative Industries: People and Practices
SELECT	Either KPB101 or KVB104:
KPB101	Introduction to Film, TV and New Media Production
KVB104	Photomedia and Artistic Practice

Year 1, Semester 2

INB103	Industry Insights
INB104	Building IT Systems
KCB103	Strategic Speech Communication
KKB102	Creative Industries: Making Connections

Year 2, Semester 1

	IT Breadth Option Unit
	IT Breadth Option Unit
KKB221	Approaching Interdisciplinarity
SELECT	Creative Industries Major: First Unit

Year 2, Semester 2

	IT Breadth Option Unit
	IT Breadth Option Unit
KKB222	Interdisciplinarity in Practice
SELECT	Creative Industries Major: Second Unit

Year 3, Semester 1

INB201	Scalable Systems Development
	IT Specialisation Option Unit
SELECT	Creative Industries Major: Third Unit
SELECT	Creative Industries Major: Fourth Unit

Year 3, Semester 2

INB300	Professional Practice in IT
	IT Specialisation Option Unit
SELECT	Creative Industries Major: Fifth Unit
SELECT	Creative Industries Major: Sixth Unit

Year 4, Semester 1

INB301	The Business of IT
	IT Specialisation Option Unit
SELECT	Creative Industries Major: Seventh Unit
SELECT	Transitions to New Professional Environments Unit

Year 4, Semester 2

INB302	IT Capstone Project
	IT Specialisation Option Unit
SELECT	Creative Industries Major: Eighth Unit
SELECT	Transitions to New Professional Environments Unit

Course structure for students who commenced in 2010

Year 1, Semester 1

INB101	Impact of IT
INB102	Emerging Technology
KKB101	Creative Industries: People and Practices
SELECT	Either KPB101 or KVB104:
KPB101	Introduction to Film, TV and New Media Production
KVB104	Photomedia and Artistic Practice

Year 1, Semester 2

INB103	Industry Insights
INB104	Building IT Systems
KCB103	Strategic Speech Communication
KKB102	Creative Industries: Making Connections

Year 2, Semester 1

	IT Breadth Option Unit
	IT Breadth Option Unit

KKB221	Approaching Interdisciplinarity
SELECT	Creative Industries Major: First Unit

Year 2, Semester 2

	IT Breadth Option Unit
	IT Breadth Option Unit
KKB222	Interdisciplinarity in Practice
SELECT	Creative Industries Major: Second Unit

Year 3, Semester 1

INB201	Scalable Systems Development
	IT Specialisation Option Unit
SELECT	Creative Industries Major: Third Unit
SELECT	Creative Industries Major: Fourth Unit

Year 3, Semester 2

INB300	Professional Practice in IT
	IT Specialisation Option Unit
SELECT	Creative Industries Major: Fifth Unit
SELECT	Creative Industries Major: Sixth Unit

Year 4, Semester 1

INB301	The Business of IT
	IT Specialisation Option Unit
SELECT	Creative Industries Major: Seventh Unit
SELECT	Transitions to New Professional Environments Unit

Year 4, Semester 2

INB302	IT Capstone Project
	IT Specialisation Option Unit
SELECT	Creative Industries Major: Eighth Unit
SELECT	Transitions to New Professional Environments Unit

Course structure for students who commenced in 2009

Year 1, Semester 1

INB101	Impact of IT
INB102	Emerging Technology
KKB101	Creative Industries: People and Practices
SELECT	Either KPB150 or KVB104:
KPB150	Foundations of Multi-platform Production
KVB104	Photomedia and Artistic Practice

Year 1, Semester 2

INB103	Industry Insights
INB104	Building IT Systems
KCB103	Strategic Speech Communication
KKB102	Creative Industries: Making Connections

Year 2, Semester 1

Creative Industries Major Options

INSTRUCTIONS FOR MAJORS

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.

Animation

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.

KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KIB203	Introduction to 3D Computer Graphics
KIB220	Animation Production
KIB221	Animation: CG Toolkit
KIB225	Character Development, Conceptual Design and Animation Layout
KIB316	Virtual Environments
KIB325	Real-Time 3D Computer Graphics
KVB105	Drawing for Design
KVB106	Drawing for Animation

Art and Design History

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.

DAB325	Architecture in the 20th Century
DAB420	Architecture, Culture and Space
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

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.

Instructions: Of the eight units you need to complete, you must select at least three units coded 200 or above.

KWB101	Introduction to Creative Writing
KWB102	Media Writing
KWB103	Persuasive Writing
KWB104	Creative Writing: the Short Story
KWB106	Corporate Writing and Editing
KWB107	Creative Non-Fiction
KWB206	Youth and Children's Writing
KWB207	Great Books: Creative Writing Classics
KWB211	Stylistics and Poetics
KWB303	Writing and Publishing Industry
KWB313	Novel and Memoir

Dance Studies

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. It is essential that you be physically able, fit and have basic knowledge in a dance technique, either ballet, jazz or contemporary dance.

Instructions: Of the eight units you need to complete, you must select at least two units coded 200 or above.

KDB103	Dance Technique Studies 1
KDB104	Dance Technique Studies 2
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
KDB204	Australian Dance
KDB205	Dance in Education
KDB225	Music Theatre Skills

*Please note that the Dance Studies major in the Bachelor of Creative Industries is NOT a pathway to secondary dance teaching

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Digital Media

Description: Online and interactive technologies now dominate creative and professional life. This major provides you with the opportunity to develop websites, multimedia projects, wikis and blogs, as well as allowing you to understand the guiding principals behind these new modes of communication and creative practice.

Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major.

KCB101	Introduction to Media and Communication: Texts
SELECT	Either KCB102 or KJB101:
KCB102	Media Myth Busting 1
KJB101	Digital Journalism
SELECT	Either KCB104 or KPB110:
KCB104	Media and Communications: Industries
KPB110	The Movie, TV & New Media Business
KCB206	New Media: Internet, Self and Beyond
KCB207	Exploring New Media Worlds
KCB203	Consumption Matters: Consumer Cultures and Identity
KIB101	Visual Communication
KIB103	Introduction to Web Design and Development
KVB306	Video Art and Culture

Drama

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.

KDB225	Music Theatre Skills
KTB101	20th Century Performance
KTB103	Performing Skills 1: Character and Scene
KTB104	Performance Innovation
KTB106	Performing Skills 2: Style and Form
KTB204	Understanding Performance
KTB207	Staging Australia
KTB210	Creative Industries Management
KTB211	Creative Industries Events and Festivals
KTB305	The Entrepreneurial Artist
KTB306	Directing for Performance Events and Festivals

Entertainment Industries

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.

SELECT	Either BSB126 or KPB101 (BSB126 is mandatory unless you are already undertaking it as part of another study package):
BSB126	Marketing
KPB101	Introduction to Film, TV and New Media Production
AMB207	Entertainment Marketing
KXB101	Introduction to Entertainment
KXB102	Global Entertainment
KXB201	Entertainment Practice: Balancing Creativity and Business
KXB301	Entertainment Industries Map
LWS008	Entertainment Law
LWS009	Introduction to Law

Note: LWS009 will first be offered in semester 2 2011. KXB301 and LWS008 will first be offered in semester 1 2012. AMB200, KCB301 or KWB102 will be permitted to count towards this study package if completed in 2010 or earlier.

Fashion

Description: This major has been designed to offer a mix of theoretical and practical units. The theory units will develop your knowledge and understanding of the history, industry and consumption of fashion and will introduce you to the critical legal issues surrounding the production and distribution of fashion. The practical units provide you with a variety of options to develop fashion related skills focusing on textile design, portfolio development and fashion journalism.

Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major.

KCB203	Consumption Matters: Consumer Cultures and Identity
KFB103	Introduction to Fashion
KFB106	Unspeakable Beauty: A History of Fashion and Style
KFB107	Drawing for Fashion
KFB205	Fashion and Style Journalism
KFB206	Fashion and Modernity
KFB207	Contemporary Fashion
KFB208	Fashion Portfolio
KFB209	Ragtrade: Wholesaling Fashion

KFB304	Fashion, Law and the Real World
KVB213	Graphic Investigation

Film, Television and Screen

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.

KPB101	Introduction to Film, TV and New Media Production
KPB104	Film and Television Production Resource Management
KPB105	Narrative Production
KPB109	Film and TV History
KPB110	The Movie, TV & New Media Business
KPB112	TV and Film Genres
KPB113	TV and Film Text Analysis
KPB202	Film and Television Business Skills: Entrepreneurship and Investment
KPB205	Documentary Theory and Practice
KPB206	International Cinema
KPB212	Australian Film and TV
KPB303	Critical Thinking About Television
KPB313	How to be a Producer

* Please note: KPB203 is permitted to count towards this unit set.

Interactive and Visual Design

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.

KIB101	Visual Communication
KIB102	Visual Interactions
KIB103	Introduction to Web Design and Development
KIB104	Digital Media
KIB214	Design for Interactive Media
KIB216	Advanced Web Design
KIB230	Interface and Information Design
KIB315	Contemporary Issues in Digital Media
KVB105	Drawing for Design

KVB204	Graphic Design

Journalism, Media and Communication

Description: This major offers you a range of options to develop an understanding of the parameters of the journalism and professional communication fields. You can choose a mix of units to suit your career aspirations. If you choose to focus more on the Journalism (KJB) units, the major will introduce you to a range of journalism writing styles and offers an insight into some specialist areas of reporting. If you choose to focus more on the Media and Communication (KCB) units, it has been designed to enable 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 major.

SELECT	Either KCB102 or KJB101:
KCB102	Media Myth Busting 1
KJB101	Digital Journalism
KJB120	Newswriting
KCB104	Media and Communications: Industries
KJB121	Journalistic Inquiry
KCB103	Strategic Speech Communication
KJB224	Feature Writing
KJB239	Journalism Ethics and Issues
SELECT	Either KFB205 or KJB280:
KFB205	Fashion and Style Journalism
KJB280	International Journalism
KCB301	Media Audiences
KCB302	Political Communication
SELECT	Either KCB304 or KJB337:
KCB304	Designing Communication Resources
KJB337	Public Affairs Reporting

Literary Studies

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.

KWB108	Introduction To Literary Studies
KWB109	Writing Australia
KWB206	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
KWB309	Popular Fictions, Popular Culture
	* KWB210 will be offered for the first time in semester 1 2012.

Music

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.

KDB225	Music Theatre Skills
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
KMB200	Music Scenes and Subcultures
KMB301	The Music Industry

Please note: KKB345 is permitted to count towards this unit set if completed in 2010 or earlier.

Creative Industries Transitions to New Professional Environments Unit Options

A maximum of 48 credit points may be taken from the following units:

KKB341	Creative Industries Internship 1
KKB342	Creative Industries Internship 2
KKB345	Creative Industries Project 1
KKB346	Creative Industries Project 2
KKB347	Becoming A Researcher: Understandings, Skills and Practices
KKB350	Creative Industries International Study Tour

* Please note: KKB343 and KKB344 are permitted to count as Transitions to New Professional Environments Unit Options if completed in 2010 or earlier.

IT Breadth Option Unit List

IT Breadth Option Units

You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.

INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Foundations of Computer Science
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.

1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB343	Advanced Data Mining and Data Warehousing
INB344	Search Engine Technology
3.	DIGITAL ENVIRONMENTS:
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB335	Information Resources
4.	ENTERPRISE SYSTEMS:
INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
5.	NETWORK SYSTEMS:
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks
6.	SOFTWARE ENGINEERING:
INB370	Software Development

INB371	Data Structures and Algorithms
INB372	Agile Software Development
INB374	Enterprise Software Architecture
7.	WEB TECHNOLOGIES:
INB313	Electronic Commerce Site Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
8.	UNGROUPED:
INB204	Special Topic 1
INB205	Special Topic 2
INB304	Special Topic 3
INB305	Special Topic 4
INB306	Project 1
INB307	Project 2
INB308	Project 3
INB355	Cryptology and Protocols
INB365	Systems Programming
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
INB860	Computational Intelligence for Control and Embedded Systems

Potential Careers:

Advertising Professional, Animator, Art Writer, Artist, Arts Administrator, Computer Game Programmer, Computer Games Developer, Creative Writer, Digital Composer, Fashion Professional, Film Composer, Film/Television Producer, Information Officer, Information Security Specialist, Internet Professional, Marketing Officer/Manager, Media Industry Specialist, Multimedia Designer, Music Agent/Manager, Music Publisher, Music Sampler, Music Technologist, Organisational Communication Specialist, Public Relations Officer/Consultant, Recording Engineer, Sound and Music Producer, Sound Designer, Technical Officer, Visual Artist, Web Designer.

Bachelor of Information Technology/Bachelor of Mathematics (IX57)

Year offered: 2011
Admissions: Yes
CRICOS code: 059226F
Course duration (full-time): 4 Years
Domestic fees (indicative): 2011: CSP $3,028 (indicative) per semester
International Fees (indicative): 2011: $11,375 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 418552
Past rank cut-off: 81
Past OP cut-off: 10
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Course coordinator: Mr Mike Roggenkamp (Information Technology Major), Dr Tim Moroney (Mathematical Sciences Major)
Campus: Gardens Point

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 specialisation of your choice.

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.

Financial Support

You should consider applying for an industry-sponsored mathematics bursary or an information technology scholarship to help you financially throughout your studies. For further information visit Scholarships.

Study Areas

IX57 will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate's parchment. Instead, IX57 will have specialisations. The specialisation areas that will be available for students will include:
• Business Process Management
• Data Warehousing
• Digital Societies
• Enterprise Systems
• Information Management
• Network Systems
• Software Engineering
• Web Technologies

Pathways to Further Studies

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

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

Cooperative Education

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

Find out more about the Cooperative Education Program.

Further Information

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

Information Technology Coordinator

Mr Richard Thomas
Phone: +61 7 3138 2782

Email: enquiry.scitech@qut.edu.au

Mathematical Sciences Coordinator
Dr Tim Moroney
Phone: +61 7 3138 2262
Email: t.moroney@qut.edu.au

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 on deferment.

Course Structure for Students with Four Semesters of Senior Mathematics B and Senior Mathematics C

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1

Year 2, Semester 1	
	IT Breadth Unit Option
	IT Breadth Unit Option
MAB101	Statistical Data Analysis 1
MAB312	Linear Algebra

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
	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	

Year 4, Semester 1	
INB301	The Business of IT
	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

Course Structure for Students with Four Semesters of Senior Mathematics B Only

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry

Year 2, Semester 1	
	IT Breadth Unit Option
	IT Breadth Unit Option
MAB220	Computational Mathematics 1
MAB312	Linear Algebra

Year 2, Semester 2	
	IT Breadth Unit Option
	IT Breadth Unit Option
MAB210	Statistical Modelling 1
	Level 2 or 3 Maths Unit

Year 3, Semester 1	
INB201	Scalable Systems Development
	IT Specialist Unit Option
MAB311	Advanced Calculus
	Level 2 or 3 Maths Unit

Year 3, Semester 2	
INB300	Professional Practice in IT
	IT Specialist Unit Option
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Year 4, Semester 1	
INB301	The Business of IT

IT Specialist Unit Option

Level 2 or 3 Maths Unit

Level 2 or 3 Maths Unit

Year 4, Semester 2

INB302	IT Capstone Project
	IT Specialist Unit Option
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Mathematics Units

Level 2 Units

MAB311	Advanced Calculus
MAB312	Linear Algebra
MAB313	Mathematics of Finance
MAB314	Statistical Modelling 2
MAB315	Operations Research 2
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB420	Computational Mathematics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation
	Note: MAB311 Advanced Calculus and MAB312 Linear Algebra are mandatory units.

Level 3 Units - at least 4 units must be selected

MAB521	Applied Mathematics 3
MAB522	Computational Mathematics 3
MAB524	Statistical Inference
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB536	Time Series Analysis
MAB613	Partial Differential Equations
MAB623	Financial Mathematics
MAB624	Applied Statistics 3
MAB625	Operations Research 3B
MAB640	Industry Project
MAB672	Advanced Mathematical Modelling
	Note: MAB523 Introduction to Quality Management and MAB621 Discrete Mathematics do not contribute to the mandatory 48 credit points minimum from Level 3 Mathematics units.

IT Breadth Option Unit List

IT Breadth Option Units

You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.

INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Foundations of Computer Science
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.

1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB343	Advanced Data Mining and Data Warehousing
INB344	Search Engine Technology
3.	DIGITAL ENVIRONMENTS:
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB335	Information Resources
4.	ENTERPRISE SYSTEMS:
INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
5.	NETWORK SYSTEMS:
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks
6.	SOFTWARE ENGINEERING:
INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development

INB374	Enterprise Software Architecture
7.	WEB TECHNOLOGIES:
INB313	Electronic Commerce Site Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
8.	UNGROUPED:
INB204	Special Topic 1
INB205	Special Topic 2
INB304	Special Topic 3
INB305	Special Topic 4
INB306	Project 1
INB307	Project 2
INB308	Project 3
INB355	Cryptology and Protocols
INB365	Systems Programming
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
INB860	Computational Intelligence for Control and Embedded Systems

Potential Careers:

Actuary, Computer Game Programmer, Data Communications Specialist, Database Manager, Market Research Manager, Mathematician, Network Administrator, Network Manager, Programmer, Quantitative Analyst, Software Engineer, Statistician, Systems Analyst.

Bachelor of Business (Study Area A)/ Bachelor of Information Technology (IX58)

Year offered: 2011
Admissions: Yes
CRICOS code: 059595C
Course duration (full-time): 4 Years
Domestic fees (indicative): 2011: CSP $4,209 per semester (indicative)
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419202
Past rank cut-off: 81
Past OP cut-off: 10
OP Guarantee: Yes
Assumed knowledge: English (4,SA) and Maths A, B or C (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Course coordinator: Mr Mike Roggenkamp (Science and Technology), Director of Undergraduate Studies, QUT Business School; email: bus@qut.edu.au
Discipline coordinator: Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr John Chen (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Henri Burgers (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

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 multidisciplined 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 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 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

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

The following Majors are available from the Business component: Accounting, Advertising, Economics, Finance, Human Resource Management, International Business, Management, Marketing and Public Relations.

International Students

English language requirements:
In addition to the above academic entry requirements, international students must meet the University's English language requirements of IELTS of 6.5 (with no lower than 6.0 for any one band).

Pathways to Futher 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 Faculty of Science and Technology'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.

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 on deferment.

IX58 - Bachelor of Business/Bachelor of Information Technology Course structure

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	
INB301	The Business of IT
	INB300 and INB301 can only be taken after a student has completed a minimum of 168 credit points of study.
	IT Specialist Option Unit
	Business Unit
	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

IT Breadth Option Unit List

IT Breadth Option Units	
	You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.
INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Foundations of Computer Science
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units	
	You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.
1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design

INB341	Software Development With Oracle	
INB342	Enterprise Data Mining and Data Analysis	
INB343	Advanced Data Mining and Data Warehousing	
INB344	Search Engine Technology	
3.	DIGITAL ENVIRONMENTS:	
INB345	Mobile Devices	
INB346	Enterprise 2.0	
INB347	Web 2.0 Applications	
INB335	Information Resources	
4.	ENTERPRISE SYSTEMS:	
INB123	Project Management Practice	
INB221	Technology Management	
INB311	Enterprise Systems	
INB312	Enterprise Systems Applications	
5.	NETWORK SYSTEMS:	
INB350	Internet Protocols and Services	
INB351	Unix Network Administration	
INB352	Network Planning	
INB353	Wireless and Mobile Networks	
6.	SOFTWARE ENGINEERING:	
INB370	Software Development	
INB371	Data Structures and Algorithms	
INB372	Agile Software Development	
INB374	Enterprise Software Architecture	
7.	WEB TECHNOLOGIES:	
INB313	Electronic Commerce Site Development	
INB373	Web Application Development	
INB374	Enterprise Software Architecture	
INB385	Multimedia Systems	
INB386	Advanced Multimedia Systems	
8.	UNGROUPED:	
INB204	Special Topic 1	
INB205	Special Topic 2	
INB304	Special Topic 3	
INB305	Special Topic 4	
INB306	Project 1	
INB307	Project 2	
INB308	Project 3	
INB355	Cryptology and Protocols	
INB365	Systems Programming	
INB381	Modelling and Animation Techniques	
INB382	Real Time Rendering Techniques	
INB860	Computational Intelligence for Control and Embedded Systems	

IX58 - Business component (Accountancy) - course structure

Year 1, Semester 1

BSB110	Accounting	
BSB115	Management	
	Information Technology unit	
	Information Technology unit	

Year 1, Semester 2

BSB123	Data Analysis	
BSB126	Marketing	
	Information Technology unit	
	Information Technology unit	

Year 2, Semester 1

	Accountancy students MUST choose INB120 as one of their IT Breadth Options to meet professional recognition requirements	
BSB111	Business Law and Ethics	
BSB113	Economics	
	Information Technology unit	
	Information Technology unit	

Year 2, Semester 2

AYB200	Financial Accounting	
AYB225	Management Accounting	
	Information Technology unit	
	Information Technology unit	

Year 3, Semester 1

EFB210	Finance 1	
AYB219	Taxation Law	
	Information Technology unit	
	Information Technology unit	

Year 3, Semester 2

AYB230	Corporations Law	
AYB340	Company Accounting	
	Information Technology unit	
	Information Technology unit	

Year 4, Semester 1

AYB311	Financial Accounting Issues	
AYB321	Strategic Management Accounting	
	Information Technology unit	
	Information Technology unit	

Year 4, Semester 2

AYB301	Audit and Assurance	
AYB339	Accountancy Capstone	
	Information Technology unit	
	Information Technology unit	

IX58 - Business component (Advertising) - course structure

Year 1, Semester 1

BSB126	Marketing
BSB113	Economics
	Information Technology unit
	Information Technology unit

Year 1, Semester 2

BSB110	Accounting
BSB115	Management
	Information Technology unit
	Information Technology unit

Year 2, Semester 1

BSB124	Working in Business
BSB119	Global Business
	Information Technology unit
	Information Technology unit

Year 2, Semester 2

AMB200	Consumer Behaviour
AMB220	Advertising Theory and Practice
	Information Technology unit
	Information Technology unit

Year 3, Semester 1

AMB201	Marketing and Audience Research
BSB111	Business Law and Ethics
	Information Technology unit
	Information Technology unit

Year 3, Semester 2

AMB318	Advertising Copywriting
AMB319	Media Planning
	Information Technology unit
	Information Technology unit

Year 4, Semester 1

AMB320	Advertising Management
AMB330	Advertising Planning Portfolio
	Information Technology unit
	Information Technology unit

Year 4, Semester 2

AMB339	Advertising Campaigns
BSB123	Data Analysis
	Information Technology unit
	Information Technology unit

IX58 - Business component (Economics) - course structure

Year 1, Semester 1

BSB113	Economics
BSB115	Management
	Information Technology unit
	Information Technology unit

Year 1, Semester 2

BSB124	Working in Business
BSB123	Data Analysis
	Information Technology unit
	Information Technology unit

Year 2, Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics
	Information Technology unit
	Information Technology unit

Year 2, Semester 2

EFB222	Quantitative Methods For Economics and Finance
EFB223	Economics 2
	Information Technology unit
	Information Technology unit

Year 3, Semester 1

EFB330	Intermediate Macroeconomics
EFB331	Intermediate Microeconomics
	Information Technology unit
	Information Technology unit

Year 3, Semester 2

	Choice Units or remaining Business School Core Units
	Choice Units or remaining Business School Core Units
	Information Technology unit
	Information Technology unit

Year 4, Semester 1

	Choice Units or remaining Business School Core Units
	Choice Units or remaining Business School Core Units
	Information Technology unit
	Information Technology unit

Year 4, Semester 2

EFB338	Contemporary Application of Economic Theory
	Choice Units or remaining Business School Core Units
	Information Technology unit
	Information Technology unit

Economics Choice Unit List

Choose any three of the following:

EFB332	Applied Behavioural Economics
EFB333	Introductory Econometrics
EFB334	Environmental Economics and Policy
EFB336	International Economics
EFB337	Game Theory and Applications

Important Note:

Note: Both BSB119 and BSB126 units are the remaining Business School Core Units which are to be completed.

IX58 - Business component (Finance) - course structure

Year 1, Semester 1

BSB113	Economics
BSB115	Management
	Information Technology unit
	Information Technology unit

Year 1, Semester 2

BSB124	Working in Business
BSB126	Marketing
	Information Technology unit
	Information Technology unit

Year 2, Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics
	Information Technology unit
	Information Technology unit

Year 2, Semester 2

BSB123	Data Analysis
BSB119	Global Business
	Information Technology unit
	Information Technology unit

Year 3, Semester 1

EFB222	Quantitative Methods For Economics and Finance
EFB210	Finance 1
	Information Technology unit
	Information Technology unit

Year 3, Semester 2

EFB201	Financial Markets
EFB307	Finance 2
	Information Technology unit
	Information Technology unit

Year 4, Semester 1

EFB223	Economics 2
EFB335	Investments
	Information Technology unit
	Information Technology unit

Year 4, Semester 2

EFB312	International Finance
EFB340	Finance Capstone
	Information Technology unit
	Information Technology unit

IX58 - Business component (Human Resource Management) - course structure

Year 1, Semester 1

BSB113	Economics
BSB115	Management
	Information Technology unit
	Information Technology unit

Year 1, Semester 2

BSB124	Working in Business
BSB126	Marketing
	Information Technology unit
	Information Technology unit

Year 2, Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics
	Information Technology unit
	Information Technology unit

Year 2, Semester 2

BSB123	Data Analysis
BSB119	Global Business
	Information Technology unit
	Information Technology unit

Year 3, Semester 1

MGB207	Human Resource Issues and Strategy
MGB220	Business Research Methods
	Information Technology unit
	Information Technology unit

Year 3, Semester 2

MGB200	Leading Organisations
MGB201	Contemporary Employment Relations
	Information Technology unit
	Information Technology unit

Year 4, Semester 1

MGB331	Learning and Development in Organisations
MGB339	Performance and Reward
	Information Technology unit
	Information Technology unit

Year 4, Semester 2

MGB320	Recruitment and Selection
MGB370	Personal and Professional Development
	Information Technology unit
	Information Technology unit

IX58 - Business component (International Business) - course structure

Year 1, Semester 1

BSB126	Marketing
BSB119	Global Business
	Information Technology unit
	Information Technology unit

Year 1, Semester 2

BSB110	Accounting
BSB115	Management
	Information Technology unit
	Information Technology unit

Year 2, Semester 1

BSB124	Working in Business
BSB123	Data Analysis
	Information Technology unit
	Information Technology unit

Year 2, Semester 2

BSB111	Business Law and Ethics
BSB113	Economics
	Information Technology unit
	Information Technology unit

Year 3, Semester 1

MGB225	Intercultural Communication and Negotiation Skills
AYB227	International Accounting
	Information Technology unit
	Information Technology unit

Year 3, Semester 2

AMB210	Importing and Exporting
EFB240	Finance for International Business
	Information Technology unit
	Information Technology unit

Year 4, Semester 1

AMB303	International Logistics
AMB336	International Marketing
	Information Technology unit
	Information Technology unit

Year 4, Semester 2

MGB340	International Business in the Asia-Pacific
AMB369	International Business Strategy
	Information Technology unit
	Information Technology unit

IX58 - Business component (Management) - course structure

Year 1, Semester 1

BSB113	Economics
BSB115	Management
	Information Technology unit
	Information Technology unit

Year 1, Semester 2

BSB124	Working in Business
BSB126	Marketing
	Information Technology unit
	Information Technology unit

Year 2, Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics
	Information Technology unit
	Information Technology unit

Year 2, Semester 2

BSB119	Global Business
BSB123	Data Analysis
	Information Technology unit
	Information Technology unit

Year 3, Semester 1

MGB210	Managing Operations
MGB223	Entrepreneurship and Innovation
	Information Technology unit
	Information Technology unit

Year 3, Semester 2

MGB200	Leading Organisations
MGB225	Intercultural Communication and Negotiation Skills
	Information Technology unit
	Information Technology unit

Year 4, Semester 1

MGB309	Strategic Management
MGB324	Managing Business Growth
	Information Technology unit
	Information Technology unit

Year 4, Semester 2

MGB310	Sustainability in A Changing Environment
MGB335	Project Management
	Information Technology unit
	Information Technology unit

IX58 - Business component (Marketing) - course structure

Year 1, Semester 1

BSB126	Marketing
BSB113	Economics
	Information Technology unit
	Information Technology unit

Year 1, Semester 2

BSB111	Business Law and Ethics
BSB115	Management
	Information Technology unit
	Information Technology unit

Year 2, Semester 1

BSB119	Global Business
BSB124	Working in Business
	Information Technology unit
	Information Technology unit

Year 2, Semester 2

BSB110	Accounting
BSB123	Data Analysis
	Information Technology unit
	Information Technology unit

Year 3, Semester 1

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
	Information Technology unit
	Information Technology unit

Year 3, Semester 2

AMB202	Integrated Marketing Communication
AMB240	Marketing Planning and Management
	Information Technology unit
	Information Technology unit

Year 4, Semester 1

AMB335	E-marketing Strategies

AMB340	Services Marketing
	Information Technology unit
	Information Technology unit

Year 4, Semester 2

AMB336	International Marketing
AMB359	Strategic Marketing
	Information Technology unit
	Information Technology unit

IX58 - Business component (Public Relations) - course structure

Year 1, Semester 1

BSB119	Global Business
BSB126	Marketing
	Information Technology unit
	Information Technology unit

Year 1, Semester 2

BSB110	Accounting
BSB115	Management
	Information Technology unit
	Information Technology unit

Year 2, Semester 1

BSB124	Working in Business
BSB113	Economics
	Information Technology unit
	Information Technology unit

Year 2, Semester 2

AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques
	Information Technology unit
	Information Technology unit

Year 3, Semester 1

AMB201	Marketing and Audience Research
BSB111	Business Law and Ethics
	Information Technology unit
	Information Technology unit

Year 3, Semester 2

AMB372	Public Relations Planning
AMB373	Corporate Communication
	Information Technology unit
	Information Technology unit

Year 4, Semester 1

AMB374	Global Public Relations Cases
AMB375	Public Relations Management

Information Technology unit

Information Technology unit

Year 4, Semester 2

AMB379   Public Relations Campaigns

BSB123   Data Analysis

Information Technology unit

Information Technology unit

Potential Careers:

Academic, Account Executive, Accountant, Administrator, Advertising Professional, Banker, Banking and Finance Professional, Economist, Financial Project Manager, Financial Risk Manager, Human Resource Developer, Human Resource Manager, International Business Specialist, Manager, Market Research Manager, Marketing Officer/Manager, Public Relations Officer/Consultant.

Bachelor of Corporate Systems Management/Bachelor of Justice (IX61)

Year offered: 2011
Admissions: Yes
CRICOS code: 063030F
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,300 (indicative) per semester
International Fees (indicative): 2011: $10,750 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419652
Past rank cut-off: 81
Past OP cut-off: 10
OP Guarantee: Yes
Assumed knowledge: English (4,SA); Maths A, B or C (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Course coordinator: Dr Taizan Chan (Science and Technology), Prof Kerry Carrington (Law)
Discipline coordinator: Professor Kerry Carrington (Justice); Dr Taizan Chan (Science and Technology)
Campus: Gardens Point

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.

Futher Information

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

Science and Technology Coordinator
Dr Taizan Chan
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Law Coordinator
Professor Kerry Carrington
Phone: +61 7 3138 7112
Email: lawjs_enquiry@qut.edu.au

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 on deferment.

Recommended course progression (from 2011 onwards)

Year 1, Semester 1	
INB120	Corporate Systems
INB103	Industry Insights
JSB170	Introduction to Criminology and Policing
JSB171	Justice and Society

Year 1, Semester 2	
INB123	Project Management Practice
BSB115	Management
JSB173	Understanding the Criminal Justice System
JSB174	Forensic Psychology and the Law

Year 2, Semester 1	
INB101	Impact of IT
INB122	Organisational Databases
JSB172	Professional Criminological Research Skills
JSB175	Social Ethics and the Justice System

Year 2, Semester 2	
INB124	Information Systems Development

INB313	Electronic Commerce Site Development
JSB271	Policy Governance and Justice
	Justice Study Area A Unit from list below (Criminology or Policing)

Year 3, Semester 1

INB220	Business Analysis
INB221	Technology Management
JSB371	Indigenous Justice
	Justice Study Area A Unit from list below (Criminology or Policing)

Year 3, Semester 2

MGB223	Entrepreneurship and Innovation
INB320	Business Process Modelling
	Justice Study Area A Unit from list below (Criminology or Policing)
	Justice Study Area A Unit from list below (Criminology or Policing)

Year 4, Semester 1

INB312	Enterprise Systems Applications
INB322	Information Systems Consulting
	Justice Study Area A Unit from list below (Criminology or Policing)
	Justice Study Area A Unit from list below (Criminology or Policing)

Year 4, Semester 2

BSB126	Marketing
INB325	Corporate Systems Management Project
	Justice Study Area A Unit from list below (Criminology or Policing)
	Justice Study Area A Unit from list below (Criminology or Policing)

Criminology Units:

	Choose eight from the following:
JSB177	Crimes of Violence
JSB255	Environmental Criminology
JSB256	Indigenous Justice in a Global Context
JSB258	Official Corruption
JSB272	Theories of Crime
JSB273	Crime Research Methods
JSB372	Youth Justice
JSB373	Punishment and Penal Policy
JSB374	Crime Prevention
JSB971	Gender Crime and the Criminal Justice System
JSB982	Transnational Crime

Policing Units:

	Choose eight from the following:
JSB257	Policing Diversity

JSB273	Crime Research Methods
JSB274	Policing in Context
JSB375	Investigative Knowledge: People and Systems in Policing
JSB376	Information Management and Analysis
JSB377	Intelligence and Security
JSB378	Drugs and Crime
JSB977	Organised and Transnational Crime
JSB985	Political Violence and Terrorism
JSB986	Death Investigation

Potential Careers:

Administrator, Corrective Services Officer, Customs Officer, Data Communications Specialist, Database Manager, Government Officer, Information Officer, Information Security Specialist, Investigator, Network Administrator, Police Officer (Australian Federal), Police Officer (State), Policy Officer, Risk Manager, Software Engineer, Systems Manager, Systems Programmer, Systems Trainer, Youth Worker.

Bachelor of Business / Bachelor of Corporate Systems Management (IX62)

Year offered: 2011
Admissions: Yes
CRICOS code: 063022F
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $4,209 per semester (indicative)
International Fees (indicative): 2011: $11,125 (indicative) per semester
International Entry: February
QTAC code: 419642
Past rank cut-off: 81
Past OP cut-off: 10
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Math A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Course coordinator: Dr Taizan Chan (Science and Technology); Director of Undergraduate Studies, QUT Business School; email: bus@qut.edu.au
Discipline coordinator: Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr John Chen (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Henri Burgers (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

Overview

If you love information technology environments such as Google Earth, GPS technology and mobile devices, and would like to be in a position to effectively apply them to the business world within your chosen business major, then this is the degree for you. This double degree allows you to expand on the business focus of corporate systems management with a business degree, broadening your business knowledge and career possibilities. It is designed to develop the knowledge and skills you need to understand and communicate business needs, select the right systems and harness these systems to improve business performance for organisations. You will learn to effectively manage yourself and others in response to the development and implementation of technical innovations, working as an individual and as a team member within professional contexts.

Career Outcomes

Career destinations from this degree are business management roles such as project manager, program manager, data manager, infrastructure manager, business analyst, information analyst or business process manager; or opportunities to work as a consultant in a specialised field such as events management or marketing. For example, you may be interested in creating your own consultancy company that assists business in using IT to improve their business performance. Your choices are endless.

Professional Recognition

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:
- 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
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Cooperative Education Program

The Faculty of Science and Technology'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.

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 on deferment.

Futher Information

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

Science and Technology Coordinator
Dr Taizan Chan
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Business Coordinator
Phone: +61 7 3138 2050

Fax: +61 7 3138 1055
Email: bus@qut.edu.au

Bachelor of Business (Study Area A) / Bachelor of Corporate Systems Management

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
PLUS:	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
PLUS:	IX62 Complementary Studies unit
INB320	Business Process Modelling

Year 4, Semester 1	
	Business Unit
	Business Unit
INB312	Enterprise Systems Applications
INB322	Information Systems Consulting

Year 4, Semester 2	
	Business Unit
	Business Unit
MGB223	Entrepreneurship and Innovation

INB325	Corporate Systems Management Project

Accountancy Major

Year 1 Semester 1	
BSB110	Accounting
BSB115	Management

Year 1 Semester 2	
BSB111	Business Law and Ethics
BSB123	Data Analysis
BSB126	Marketing

Year 2 Semester 1	
BSB113	Economics

Year 2 Semester 2	
AYB200	Financial Accounting
AYB225	Management Accounting

Year 3 Semester 1	
EFB210	Finance 1
AYB221	Computerised Accounting Systems

Year 3 Semester 2	
AYB219	Taxation Law
AYB340	Company Accounting

Year 4 Semester 1	
AYB230	Corporations Law
AYB321	Strategic Management Accounting

Year 4 Semester 2	
AYB301	Audit and Assurance
AYB311	Financial Accounting Issues

Advertising Major

Year 1 Semester 1	
BSB113	Economics
BSB126	Marketing

Year 1 Semester 2	
BSB110	Accounting
BSB115	Management
BSB119	Global Business

Year 2 Semester 1	
BSB124	Working in Business
BSB111	Business Law and Ethics

Year 2 Semester 2	
AMB200	Consumer Behaviour
AMB220	Advertising Theory and Practice

Year 3 Semester 1

AMB201	Marketing and Audience Research

Year 3 Semester 2

AMB318	Advertising Copywriting
AMB319	Media Planning
BSB123	Data Analysis

Year 4 Semester 1

AMB320	Advertising Management
AMB330	Advertising Planning Portfolio

Year 4 Semester 2

AMB339	Advertising Campaigns

Economics Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB110	Accounting
BSB123	Data Analysis
BSB124	Working in Business

Year 2 Semester 1

BSB111	Business Law and Ethics
BSB119	Global Business

Year 2 Semester 2

EFB222	Quantitative Methods For Economics and Finance
EFB223	Economics 2

Year 3 Semester 1

EFB330	Intermediate Macroeconomics
EFB331	Intermediate Microeconomics

Year 3 Semester 2

	Choice unit
	Choice unit or remaining Business School Core Unit

Year 4 Semester 1

	Choice unit or remaining Business School Core Unit
	Choice unit

Year 4 Semester 2

EFB338	Contemporary Application of Economic Theory

Choice Units

	Choose any three of the following:
EFB332	Applied Behavioural Economics

EFB333	Introductory Econometrics
EFB334	Environmental Economics and Policy
EFB336	International Economics
EFB337	Game Theory and Applications

Important Information:

Please note: BSB126 Marketing is the remaining Business Core Unit. Please check unit availability for Choice units.

Finance Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB119	Global Business
BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB123	Data Analysis

Year 3 Semester 1

EFB222	Quantitative Methods For Economics and Finance
EFB210	Finance 1

Year 3 Semester 2

EFB201	Financial Markets
EFB223	Economics 2
EFB307	Finance 2

Year 4 Semester 1

EFB335	Investments

Year 4 Semester 2

EFB312	International Finance
EFB340	Finance Capstone

Human Resource Management

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB123	Data Analysis
BSB119	Global Business

Year 3 Semester 1

MGB207	Human Resource Issues and Strategy
MGB220	Business Research Methods

Year 3 Semester 2

MGB201	Contemporary Employment Relations
MGB200	Leading Organisations

Year 4 Semester 1

MGB331	Learning and Development in Organisations
MGB339	Performance and Reward

Year 4 Semester 2

MGB320	Recruitment and Selection
MGB370	Personal and Professional Development

International Business Major

Year 1 Semester 1

BSB119	Global Business
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB111	Business Law and Ethics
BSB124	Working in Business

Year 2 Semester 2

BSB113	Economics
MGB225	Intercultural Communication and Negotiation Skills

Year 3 Semester 1

AYB227	International Accounting
BSB123	Data Analysis

Year 3 Semester 2

AMB210	Importing and Exporting
EFB240	Finance for International Business

Year 4 Semester 1

AMB303	International Logistics
AMB336	International Marketing

Year 4 Semester 2

MGB340	International Business in the Asia-Pacific
AMB369	International Business Strategy

Management Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB119	Global Business
MGB200	Leading Organisations

Year 3 Semester 1

MGB210	Managing Operations
BSB123	Data Analysis

Year 3 Semester 2

MGB201	Contemporary Employment Relations
MGB225	Intercultural Communication and Negotiation Skills

Year 4 Semester 1

MGB309	Strategic Management
MGB324	Managing Business Growth

Year 4 Semester 2

MGB310	Sustainability in A Changing Environment
MGB335	Project Management

Marketing Major

Year 1 Semester 1

BSB113	Economics
BSB126	Marketing

Year 1 Semester 2

BSB111	Business Law and Ethics
BSB115	Management
BSB119	Global Business

Year 2 Semester 1

BSB110	Accounting
BSB124	Working in Business

Year 2 Semester 2	
BSB123	Data Analysis

Year 3 Semester 1	
AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research

Year 3 Semester 2	
AMB202	Integrated Marketing Communication
AMB240	Marketing Planning and Management

Year 4 Semester 1	
AMB335	E-marketing Strategies
AMB340	Services Marketing

Year 4 Semester 2	
AMB336	International Marketing
AMB359	Strategic Marketing

Public Relations Major

Year 1 Semester 1	
BSB119	Global Business
BSB126	Marketing

Year 1 Semester 2	
BSB110	Accounting
BSB113	Economics
BSB115	Management

Year 2 Semester 1	
BSB111	Business Law and Ethics
BSB124	Working in Business

Year 2 Semester 2	
AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques

Year 3 Semester 1	
AMB201	Marketing and Audience Research

Year 3 Semester 2	
AMB372	Public Relations Planning
AMB373	Corporate Communication
BSB123	Data Analysis

Year 4 Semester 1	
AMB374	Global Public Relations Cases

Year 4 Semester 2	
AMB375	Public Relations Management
AMB379	Public Relations Campaigns

Accountancy Major - Students who commenced in 2008

Year 1 Semester 1	
BSB110	Accounting
BSB126	Marketing

Year 1 Semester 2	
BSB115	Management
BSB123	Data Analysis
BSB124	Working in Business

Year 2 Semester 1	
BSB113	Economics
BSB111	Business Law and Ethics

Year 2 Semester 2	
AYB200	Financial Accounting
AYB230	Corporations Law

Year 3 Semester 1	
AYB340	Company Accounting
AYB225	Management Accounting

Year 3 Semester 2	
AYB219	Taxation Law
AYB221	Computerised Accounting Systems
EFB222	Quantitative Methods For Economics and Finance

Year 4 Semester 1	
AYB301	Audit and Assurance
AYB311	Financial Accounting Issues
	OR
AYB321	Strategic Management Accounting

Year 4 Semester 2	
EFB210	Finance 1
MGB223	Entrepreneurship and Innovation

Information for Business Students	
	Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Banking and Finance Major - Students who commenced in 2008

Year 1 Semester 1	
BSB113	Economics
BSB123	Data Analysis

Year 1 Semester 2	
BSB119	Global Business
BSB124	Working in Business
BSB115	Management

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

EFB222	Quantitative Methods For Economics and Finance
EFB210	Finance 1

Year 3 Semester 1

EFB200	Applied Regression Analysis
EFB201	Financial Markets

Year 3 Semester 2

EFB307	Finance 2
EFB223	Economics 2
BSB126	Marketing

Year 4 Semester 1

EFB335	Investments
	Any Banking and Finance Unit

Year 4 Semester 2

EFB312	International Finance

Important Information for Business Students

Course Updates - List of re-coded and replacement Business units

Faculty Core units

BSB114	is replaced by BSB124 Working in Business
BSB115	now retitled BSB115 Management
BSB119	now retitled BSB119 Global Business
BSB122	is replaced by BSB123 Data Analysis

Accountancy Core units

AYB121	is now AYB200 Financial Accounting AYB121
AYB220	is now AYB340 Company Accounting AYB220
AYB301	now retitled AYB301 Audit and Assurance

Advertising Core units

AMB221	is now AMB318 Advertising Copywriting
AMB222	is now AMB319 Media Planning
AMB321	is now AMB339 Advertising Campaigns

Banking and Finance Core units

EFB101	is replaced by EFB222 Quantitative Methods for Economics and Finance
EFB102	now retitled EFB223 Economics 2

Economics Core units

EFB101	is replaced by EFB222 Quantitative Methods for Economics and Finance

EFB102	now retitled EFB223 Economics 2
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB314	is replaced by EFB336 International Economics
EFB329	is now EFB338 Contemporary Application of Economic

Electronic Business Core units

BSB212	is replaced by AYB114 Business Technologies
BSB213	is replaced by AYB115 Governance Issus and Fraud
BSB314	is replaced by Forensic and Business Intelligence
ITB233	is now INB312 Enterprise Systems Application
ITB823	is now INB830 Web Sites for E-Commerce
ITB239	is now INB342 Enterprise Data Mining

Human Resource Management Core units

MGB220	now retitled MGB220 Business Research Methods
MGB221	is now MGB339 Performance and Reward

International Business Core units

IBB202	is replaced by EFB240 Finance for International Business
IBB208	IBB208 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB210	is now replaced by AMB210 Importing and Exporting
IBB213	is now AMB336 International Marketing
IBB217	IBB217 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB300	is now AMB369 International Business Strategy
IBB308	is replaced by MGB340 International Business in the Asia-Pacific

Management Core units

MGB310	Sustainability in a Changing Environment was formerly known as MGB212 and MGB334

Marketing Core units

AMB241	is now AMB335 E-Marketing Strategies
AMB341	is now AMB359 Strategic Marketing

Public Relations Core units

AMB260	is replaced by AMB263 Introduction to Public Relations
AMB360	is replaced by AMB373 Corporate Communication
AMB361	is replaced by AMB379 Public Relations Campaigns

Business Law and Tax Extended Major (BLX)

AYB223	replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law
AYB305	is replaced by AYB205 Law of Business Entities
AYB312	is now AYB232 Financial Institutions

Professional Accounting Extended Major (PAX)

AYB223	is replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law

Advertising Extended Major (ADX)

AMB230	now retitled AMB230 Digital Promotions
AMB330	now retitled AMB330 Advertising Planning Portfolio

Banking Extended Major (BFX)

AYB312	is now AYB232 Financial Institutions Law
EFB200	is replaced by EFB333 Introductory Econometrics
EFB318	is replaced by EFB335 Investments

Financial Economics Extended Major (FEX) (for Banking & Finance Students)

EFB200	is replaced by EFB333 Introductory Econometrics
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB325	is replaced by EFB336 International Economics
EFB318	is replaced by EFB335 Investments
EFB324	is replaced by EFB337 Game Theory and Applications

Financial Economics Extended Major (FEX) (for Economics Students)

EFB200	is replaced by EFB333 Introductory Econometrics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Funds Management Extended Major (FDX)

EFB318	is replaced by EFB335 Investments
AYB312	is now AYB232 Financial Institutions Law
EFB200	is replaced by EFB333 Introductory Econometrics

Human Resource Management Extended Major (HRX)

MGB315	is now MGB370 Personal and Professional Development
IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB310	Sustainability in a Changing Environment was

formerly known as MGB212 and MGB334

International Business Extended Major (IBX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
IBB303	is now AMB303 International Logistics
AMB230	now retitled AMB230 Digital Promotions
IBB312	is replaced by AMB300 Independent Project 1

Management Extended Major (MNX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB218	is now MGB324 Managing Business Growth
MGB315	is now MGB370 Personal & Professional Development
IBB210	is replaced by AMB210 Import and Exporting
IBB303	is now AMB303 International Logistics

Marketing Extended Major (MKX)

AMB251	now retitled AMB251 Innovation and Brand Management
AMB260	is replaced by AMB263 Introduction to Public Relations
AMB351	is now AMB209 Tourism Marketing
AMB352	is replaced by AMB252 Business Decision Making
AMB354	is now AMB208 Events Marketing
IBB213	is now AMB336 International Marketing
IBB303	is now AMB303 International Logistics

Public Relations Extended Major (PRX)

AMB370	is replaced by AMB374 Global Public Relations Cases
AMB371	is replaced by AMB375 Public Relations Management

Business Law and Tax Specialisation (BLS)

AYB223	is replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law
AYB305	is now AYB205 Company Law & Practice
AYB312	is now AYB232 Financial Institutions Law
BSB213	is now AYB115 Governance Issues in E-Business

Electronic Business Specialisation (EUS)

BSB212	is replaced by AYB114 Business Technologies
BSB213	is replaced by AYB115 Governance Issues and Fraud
BSB314	is replaced by AYB341 Forensic and Business Intelligence
ITB233	is now INB312 Enterprise Systems Applications
ITB823	is now INB830 Web Sites for E-Commerce
ITB239	is now INB342 Enterprise Data Mining

Financial Economics Specialisation (FES)

EFB102	is replaced by EFB223 Economics 2
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB329	is now 338 Contemporary Applications of Economics
EFB314	is replaced by EB336 International Economics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Integrated Marketing Communication Specialisation (IMS)

AMB260	is replaced by AMB263 Introduction to Public Relations
AMB230	now retitled AMB230 Digital Promotions
AMB354	is now AMB208 Events Marketing

International Logistics Specialisation (ILG)

IBB303	is now AMB303 International Logistics
BSB314	is replaced by AYB341 Forensic and Business Intelligence
IBB210	is replaced by AMB210 Importing and Exporting
EFB213	is replaced by AMB252 Business Decision Making (offered Sem 2); OR MGB335 Project Management (offered Sem 1 & 2)

Sales Specialisation (SALES)

AMB230	now retitled AMB230 Digital Promotion
AMB250	is replaced by MGB225 Intercultural Communication and Negotiation Skills

International Exchange Specialisation (IEX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills

IT - Complementary Study Unit List

Complementary Study Units: A maximum of 96 credit points can be chosen from:

1. The list of Breadth and Specialisation units.
2. Students can also choose from the range of CISCO units including INS350, INS351, INS352, INS354, INS356 and INS357.
3. Undergraduate units from other IT related degrees (e.g. INB124, INB180, INB181, INB182, INB280 or INB383).
4. Undergraduate units available with other QUT faculties.
5. Enrolment in INB830 or INB870 will NOT be counted towards completion of IT23.

NOTE: A maximum of 48 credit points of Advanced Standing for professional certifications is permitted towards completion of IT23 (including INS35X CISCO Units).

IT Breadth Option Unit List

IT Breadth Option Units

You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.

INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Foundations of Computer Science
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.

1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB343	Advanced Data Mining and Data Warehousing
INB344	Search Engine Technology
3.	DIGITAL ENVIRONMENTS:
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB335	Information Resources
4.	ENTERPRISE SYSTEMS:
INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
5.	NETWORK SYSTEMS:
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks

6.   SOFTWARE ENGINEERING:

INB370   Software Development

INB371   Data Structures and Algorithms

INB372   Agile Software Development

INB374   Enterprise Software Architecture

7.   WEB TECHNOLOGIES:

INB313   Electronic Commerce Site Development

INB373   Web Application Development

INB374   Enterprise Software Architecture

INB385   Multimedia Systems

INB386   Advanced Multimedia Systems

8.   UNGROUPED:

INB204   Special Topic 1

INB205   Special Topic 2

INB304   Special Topic 3

INB305   Special Topic 4

INB306   Project 1

INB307   Project 2

INB308   Project 3

INB355   Cryptology and Protocols

INB365   Systems Programming

INB381   Modelling and Animation Techniques

INB382   Real Time Rendering Techniques

INB860   Computational Intelligence for Control and Embedded Systems

CISCO Units

CISCO Units
Students can choose from the following CISCO units as part of the Complementary Study Units (CISCO units located under Information Technology University Wide Unit Options on e-Student.)

INS350   CCNA 1&2 Network Fundamentals and Routing

INS351   CCNA 3&4 Lan Switching

INS352   CCNP1: Building Scalable Internetworks

INS354   CCNP3: Building Multi Layered Switched Networks

INS356   Voice Over IP 1

INS357   CISCO VOIP

IX62 Complementary Study Unit List

Complementary Study Units: A maximum of 24 credit points can be chosen from:

1.   The list of Breadth and Specialisation units.

2.   Students can also choose from the range of CISCO units including INS350, INS351, INS352, INS353, INS354 and INS355.

Potential Careers:

Account Executive, Accountant, Actuary, Administrator, Advertising Professional, Banker, Banking and Finance Professional, Business Analyst, Certified Practicing Accountant, Corporate Secretary, Economist, Financial Advisor/Analyst, Financial Project Manager, Funds Manager, Government Officer, Human Resource Manager, International Business Specialist, Manager, Marketing Officer/Manager, Public Relations Officer/Consultant.

Bachelor of Business/Bachelor of Games and Interactive Entertainment (IX63)

Year offered: 2011
Admissions: Yes
CRICOS code: 063024D
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $4,209 per semester (indicative)
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419692
Past rank cut-off: 81
Past OP cut-off: 10
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Math A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Michael Docherty (Science and Technology); Director of Undergraduate Studies, QUT Business School; email: bus@qut.edu.au
Discipline coordinator: Ms Ros Kent (Accountancy); Ms Sherrena Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr John Chen (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Henri Burgers (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

Overview

This double degree gives you the opportunity to apply your business skills within the booming industry of digital entertainment and electronic games. You will not only expand your business skills but also your creative skills through the development of computer games and other forms of interactive media. You will learn to apply your critical creative thinking to identify issues and solve problems related to various technical, creative and cultural aspects of games development. Being creative and innovative is a strong skill to have in business.

Having a business background gives you a competitive advantage over other games and interactive entertainment graduates as it gives you the knowledge of how business works. You will understand issues related to people and process management in games development and demonstrate the ability to be an effective leader and innovator. You will develop lifelong skills to enable you to continuously improve games and interactive entertainment.

In the business component of this double degree, you will gain broad-based business knowledge and skills that will prepare you for any business role, along with the specialist skill and knowledge in your choice of business major in accountancy, advertising, economics, finance, human resource management, international business, management, marketing or public relations.

In the games and interactive entertainment component you will have the opportunity to develop your creative skills in the area of your chosen major in animation, digital media, game design or software technologies. In your 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.

Career Outcomes

Graduates may find employment in management roles within the games and entertainment industry, such as project manager, production manager, producer, content manager, business development manager, product manager or marketer.

Course Design

Students will be required to complete 192 credit points from the Bachelor of Games and Interactive Entertainment; and 192 credit points from the Bachelor of Business course.

Business Component: Students must complete the 96 credit point Business School Core Units in the Business program together with a 96 credit point minor.

Students will undertake the two components of the double degree concurrently.

Cooperative Education Program

The Faculty of Science and Technology'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.

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 on deferment.

Unit Incompatibility/Translation Information

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

Further Information

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

Science and Technology Coordinator
Michael Docherty
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Business Coordinator
Phone: +61 7 3138 2050
Fax: +61 7 3138 1055
Email: bus@qut.edu.au

Bachelor of Business (Study Area A)/ Bachelor of Games and Interactive Entertainment (Study Area A)

Year 1, Semester 1

	Business School Core Unit - See Appendix 1
	Business School Core Unit - See Appendix 1
INB180	Computer Games Studies
INB182	Introducing Design

Year 1, Semester 2

	Business School Core Unit - See Appendix 1
	Business School Core Unit - See Appendix 1
INB181	Introduction to Games Production
INB104	Building IT Systems

Year 2, Semester 1

	Business School Core Unit - See Appendix 1
	Business School Core Unit - See Appendix 1
INB103	Industry Insights
	Games & Interactive Entertain Major Unit

Year 2, Semester 2

	Business School Core Unit - See Appendix
	Business School Core Unit - See Appendix
	Games & Interactive Entertain Major Unit
	Games & Interactive Entertain Major Unit

Year 3, Semester 1

	Business School Major Unit - See Appendix
	Business School Major Unit - See Appendix
	Games & Interactive Entertain Major Unit
	Games & Interactive Entertain Major Unit

Year 3, Semester 2

	Business School Major Unit - See Appendix
	Business School Major Unit - See Appendix
	Games & Interactive Entertain 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

Bachelor of Games & Interactive Entertainment Majors Course structure (Block B)

Animation

	Select 8 units from:
KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KVB105	Drawing for Design
KVB106	Drawing for Animation
KIB220	Animation Production
KIB203	Introduction to 3D Computer Graphics
KIB221	Animation: CG Toolkit
KIB225	Character Development, Conceptual Design and Animation Layout
KIB316	Virtual Environments
KIB325	Real-Time 3D Computer Graphics

Digital Media

KIB101	Visual Communication
KIB102	Visual Interactions
INB345	Mobile Devices
INB386	Advanced Multimedia Systems
KIB309	Embodied Interactions
KIB230	Interface and Information Design
INB385	Multimedia Systems
KIB314	Tangible Media

Game Design

INB280	Fundamentals of Game Design
INB272	Interaction Design
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB282	Games Level Design
DEB103	Visualisation 1
INB281	Advanced Game Design
KIB214	Design for Interactive Media

Software Technologies*

	* Requirements for this Major is a SA or better in Queensland Maths B (or equivalent)
INB270	Programming
MAB281	Mathematics for Computer Graphics

INB210	Databases
INB250	Computer Architectures and Systems
INB370	Software Development
INB371	Data Structures and Algorithms
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
OR	
INB383	AI for Games

Accountancy Major

Year 1 Semester 1

| BSB110 | Accounting |
| BSB115 | Management |

Year 1 Semester 2

| BSB123 | Data Analysis |
| BSB126 | Marketing |

Year 2 Semester 1

| BSB111 | Business Law and Ethics |
| BSB113 | Economics |

Year 2 Semester 2

| AYB200 | Financial Accounting |
| AYB225 | Management Accounting |

Year 3 Semester 1

| EFB210 | Finance 1 |
| AYB221 | Computerised Accounting Systems |

Year 3 Semester 2

| AYB219 | Taxation Law |
| AYB340 | Company Accounting |

Year 4 Semester 1

| AYB230 | Corporations Law |
| AYB321 | Strategic Management Accounting |

Year 4 Semester 2

| AYB301 | Audit and Assurance |
| AYB311 | Financial Accounting Issues |

Advertising Major

Year 1 Semester 1

| BSB126 | Marketing |
| BSB113 | Economics |

Year 1 Semester 2

| BSB110 | Accounting |
| BSB115 | Management |

Year 2 Semester 1

| BSB124 | Working in Business |
| BSB119 | Global Business |

Year 2 Semester 2

| AMB200 | Consumer Behaviour |
| AMB220 | Advertising Theory and Practice |

Year 3 Semester 1

| AMB201 | Marketing and Audience Research |
| BSB111 | Business Law and Ethics |

Year 3 Semester 2

| AMB318 | Advertising Copywriting |
| AMB319 | Media Planning |

Year 4 Semester 1

| AMB320 | Advertising Management |
| AMB330 | Advertising Planning Portfolio |

Year 4 Semester 2

| AMB339 | Advertising Campaigns |
| BSB123 | Data Analysis |

Economics Major

Year 1 Semester 1

| BSB113 | Economics |
| BSB115 | Management |

Year 1 Semester 2

| BSB124 | Working in Business |
| BSB123 | Data Analysis |

Year 2 Semester 1

| BSB110 | Accounting |
| BSB111 | Business Law and Ethics |

Year 2 Semester 2

| EFB222 | Quantitative Methods For Economics and Finance |
| EFB223 | Economics 2 |

Year 3 Semester 1

| EFB330 | Intermediate Macroeconomics |
| EFB331 | Intermediate Microeconomics |

Year 3 Semester 2

| | Choice units or remaining Business School Core Units |
| | Choice units or remaining Business School Core Units |

Year 4 Semester 1

| | Choice units or remaining Business School Core Units |

Choice units or remaining Business School Core Units

Year 4 Semester 2

EFB338   Contemporary Application of Economic Theory

Choice units or remaining Business School Core Units

Choice Units

Choose any three of the following:

EFB332   Applied Behavioural Economics
EFB333   Introductory Econometrics
EFB334   Environmental Economics and Policy
EFB336   International Economics
EFB337   Game Theory and Applications

Important Information

Please: BSB119 and BSB126 are the remaining Business School Core Units to be completed. Please check for unit availability when selecting Choice units.

Finance Major

Year 1 Semester 1

BSB113   Economics
BSB115   Management

Year 1 Semester 2

BSB124   Working in Business
BSB126   Marketing

Year 2 Semester 1

BSB110   Accounting
BSB111   Business Law and Ethics

Year 2 Semester 2

BSB119   Global Business
BSB123   Data Analysis

Year 3 Semester 1

EFB222   Quantitative Methods For Economics and Finance
EFB210   Finance 1

Year 3 Semester 2

EFB201   Financial Markets
EFB307   Finance 2

Year 4 Semester 1

EFB223   Economics 2
EFB335   Investments

Year 4 Semester 2

EFB312   International Finance

EFB340   Finance Capstone

Human Resources Management Major

Year 1 Semester 1

BSB113   Economics
BSB115   Management

Year 1 Semester 2

BSB124   Working in Business
BSB126   Marketing

Year 2 Semester 1

BSB110   Accounting
BSB111   Business Law and Ethics

Year 2 Semester 2

BSB123   Data Analysis
BSB119   Global Business

Year 3 Semester 1

MGB207   Human Resource Issues and Strategy
MGB220   Business Research Methods

Year 3 Semester 2

MGB200   Leading Organisations
MGB201   Contemporary Employment Relations

Year 4 Semester 1

MGB331   Learning and Development in Organisations
MGB339   Performance and Reward

Year 4 Semester 2

MGB320   Recruitment and Selection
MGB370   Personal and Professional Development

International Business Major

Year 1 Semester 1

BSB126   Marketing
BSB119   Global Business

Year 1 Semester 2

BSB110   Accounting
BSB115   Management

Year 2 Semester 1

BSB124   Working in Business
BSB123   Data Analysis

Year 2 Semester 2

BSB111   Business Law and Ethics
BSB113   Economics

Year 3 Semester 1

MGB225	Intercultural Communication and Negotiation Skills
AYB227	International Accounting

Year 3 Semester 2

AMB210	Importing and Exporting
EFB240	Finance for International Business

Year 4 Semester 1

AMB303	International Logistics
AMB336	International Marketing

Year 4 Semester 2

MGB340	International Business in the Asia-Pacific
AMB369	International Business Strategy

Management Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB119	Global Business
BSB123	Data Analysis

Year 3 Semester 1

MGB210	Managing Operations
MGB223	Entrepreneurship and Innovation

Year 3 Semester 2

MGB200	Leading Organisations
MGB225	Intercultural Communication and Negotiation Skills

Year 4 Semester 1

MGB309	Strategic Management
MGB324	Managing Business Growth

Year 4 Semester 2

MGB310	Sustainability in A Changing Environment
MGB335	Project Management

Marketing Major

Year 1 Semester 1

BSB126	Marketing

BSB113	Economics

Year 1 Semester 2

BSB111	Business Law and Ethics
BSB115	Management

Year 2 Semester 1

BSB119	Global Business
BSB124	Working in Business

Year 2 Semester 2

BSB110	Accounting
BSB123	Data Analysis

Year 3 Semester 1

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research

Year 3 Semester 2

AMB202	Integrated Marketing Communication
AMB240	Marketing Planning and Management

Year 4 Semester 1

AMB335	E-marketing Strategies
AMB340	Services Marketing

Year 4 Semester 2

AMB336	International Marketing
AMB359	Strategic Marketing

Public Relations Major

Year 1 Semester 1

BSB119	Global Business
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB124	Working in Business
BSB113	Economics

Year 2 Semester 2

AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques

Year 3 Semester 1

BSB111	Business Law and Ethics
AMB201	Marketing and Audience Research

Year 3 Semester 2

AMB372	Public Relations Planning

AMB373   Corporate Communication

Year 4 Semester 1

AMB374   Global Public Relations Cases

AMB375   Public Relations Management

Year 4 Semester 2

AMB379   Public Relations Campaigns

BSB123   Data Analysis

Potential Careers:

Account Executive, Accountant, Actuary, Administrator, Advertising Professional, Banker, Banking and Finance Professional, Business Analyst, Certified Practicing Accountant, Corporate Secretary, Economist, Financial Advisor/Analyst, Financial Project Manager, Government Officer, Human Resource Manager, Information Officer, International Business Specialist, Manager, Marketing Officer/Manager, Public Relations Officer/Consultant.

Bachelor of Games and Interactive Entertainment/Bachelor of Mathematics (IX64)

Year offered: 2011
Admissions: Yes
CRICOS code: 063031E
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,028 (indicative) per semester
International Fees (indicative): 2011: $11,375 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 418672
Past rank cut-off: 81
Past OP cut-off: 10
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Michael Docherty (Games and Interactive Entertainment Major); Dr Tim Moroney (Mathematics Major) Tim Moroney (Mathematics Major)
Campus: Gardens Point

Course Overview

This double degree gives you the opportunity to use your problem-solving skills to develop realistic games in a competitive gaming environment. A decade ago, people probably wouldn't have noticed if the cape the game hero was wearing didn't flap in the wind as he ran, or that the boxes in the corner of the room of the dungeon didn't fall over when they are run into in a fight. Nowadays, serious gamers notice and demand this type of realism in their virtual worlds. This is where your maths and problem-solving capabilities come into play. Complex formulae are used in games design to create realistic scenes, and knowledge of mathematics will certainly aid your understanding.

Students undertake core units from both their Bachelor of Mathematics and Bachelor of Games and Interactive Entertainment. They can subsequently select from the strands of applied, computational, discrete and financial mathematics; mathematical modelling; operations research; scientific computation and visualisation; statistics and statistical modelling in their Bachelor of Mathematics and from the majors of animation, digital media, game design or software technologies in their Bachelor of Games and Interactive Entertainment degree.

Career Outcomes

A graduate may find work in film and television special effects or in the games and interactive entertainment environments making games look more realistic (such as concept artist).

Professional Recognition

Membership of the Australian Mathematical Society, the Statistical Society of Australia and the Australian Society for Operations Research is available. This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Cooperative Education Program

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

Find out more about the Cooperative Education Program.

Further Information

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

Games and Interactive Entertainment
Michael Docherty
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Mathematical Sciences
Dr Tim Moroney
Phone: +61 7 3138 2262
Email: t.moroney@qut.edu.au

Financial Support

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

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 on deferment.

Course Structure for Students with Four Semesters of Senior Mathematics B and Senior Mathematics C

Year 1, Semester 1	
INB180	Computer Games Studies
INB182	Introducing Design
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry

Year 1, Semester 2	
INB181	Introduction to Games Production

INB104	Building IT Systems
MAB101	Statistical Data Analysis 1
MAB220	Computational Mathematics 1

Year 2, Semester 1	
INB103	Industry Insights
	Games & Interactive Entertain Major Unit
MAB210	Statistical Modelling 1
MAB312	Linear Algebra

Year 2, Semester 2	
	Games & Interactive Entertain Major Unit
	Games & Interactive Entertain Major Unit
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Year 3, Semester 1	
	Games & Interactive Entertain Major
	Games & Interactive Entertain Major
MAB311	Advanced Calculus
	Level 2 or 3 Maths Unit

Year 3, Semester 2	
	Games & Interactive Entertain Major
	Games & Interactive Entertain Major
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Year 4, Semester 1	
INB379	Game Project Design
	Games & Interactive Entertain Major
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Year 4, Semester 2	
INB380	Games Project
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Course Structure for Students with Four Semesters of Senior Mathematics B Only

Year 1, Semester 1	
INB180	Computer Games Studies
INB182	Introducing Design
MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus

Year 1, Semester 2	
INB181	Introduction to Games Production
INB104	Building IT Systems
MAB121	Calculus and Differential Equations

MAB122	Algebra and Analytic Geometry

Year 2, Semester 1	
INB103	Industry Insights
	Games and Interactive Entertain Major Unit
MAB220	Computational Mathematics 1
MAB312	Linear Algebra

Year 2, Semester 2	
	Games and Interactive Entertain Major Unit
	Games and Interactive Entertain Major Unit
MAB210	Statistical Modelling 1
	Level 2 or 3 Maths Unit

Year 3, Semester 1	
	Games and Interactive Entertain Major Unit
	Games and Interactive Entertain Major Unit
MAB311	Advanced Calculus
	Level 2 or 3 Maths Unit

Year 3, Semester 2	
	Games and Interactive Entertain Major Unit
	Games and Interactive Entertain Major Unit
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Year 4, Semester 1	
INB379	Game Project Design
	Games and Interactive Entertain Major Unit
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Year 4, Semester 2	
INB380	Games Project
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Bachelor of Games & Interactive Entertainment Majors Course structure (Block B)

Animation	
	Select 8 units from:
KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KVB105	Drawing for Design
KVB106	Drawing for Animation
KIB220	Animation Production
KIB203	Introduction to 3D Computer Graphics
KIB221	Animation: CG Toolkit
KIB225	Character Development, Conceptual Design and Animation Layout
KIB316	Virtual Environments

KIB325   Real-Time 3D Computer Graphics

Digital Media

KIB101   Visual Communication

KIB102   Visual Interactions

INB345   Mobile Devices

INB386   Advanced Multimedia Systems

KIB309   Embodied Interactions

KIB230   Interface and Information Design

INB385   Multimedia Systems

KIB314   Tangible Media

Game Design

INB280   Fundamentals of Game Design

INB272   Interaction Design

KIB201   Concept Development for Game Design and Interactive Media

KIB202   Enabling Immersion

INB282   Games Level Design

DEB103   Visualisation 1

INB281   Advanced Game Design

KIB214   Design for Interactive Media

Software Technologies*

* Requirements for this Major is a SA or better in Queensland Maths B (or equivalent)

INB270   Programming

MAB281   Mathematics for Computer Graphics

INB210   Databases

INB250   Computer Architectures and Systems

INB370   Software Development

INB371   Data Structures and Algorithms

INB381   Modelling and Animation Techniques

INB382   Real Time Rendering Techniques

OR

INB383   AI for Games

Mathematics Units

Level 2 Units

MAB311   Advanced Calculus

MAB312   Linear Algebra

MAB313   Mathematics of Finance

MAB314   Statistical Modelling 2

MAB315   Operations Research 2

MAB413   Differential Equations

MAB414   Applied Statistics 2

MAB420   Computational Mathematics 2

MAB422   Mathematical Modelling

MAB461   Discrete Mathematics

MAB480   Introduction to Scientific Computation

Note: MAB311 Advanced Calculus and MAB312 Linear Algebra are mandatory units.

Level 3 Units - at least 4 units must be selected

MAB521   Applied Mathematics 3

MAB522   Computational Mathematics 3

MAB524   Statistical Inference

MAB525   Operations Research 3A

MAB533   Statistical Techniques

MAB536   Time Series Analysis

MAB613   Partial Differential Equations

MAB623   Financial Mathematics

MAB624   Applied Statistics 3

MAB625   Operations Research 3B

MAB640   Industry Project

MAB672   Advanced Mathematical Modelling

Note: MAB523 Introduction to Quality Management and MAB621 Discrete Mathematics do not contribute to the mandatory 48 credit points minimum from Level 3 Mathematics units.

Potential Careers:

Actuary, Computer Game Programmer, Market Research Manager, Mathematician, Quantitative Analyst, Statistician.

Bachelor of Applied Science/Bachelor of Games and Interactive Entertainment (IX65)

Year offered: 2011
Admissions: Yes
CRICOS code: 063032D
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,300 (indicative) per semester
International Fees (indicative): 2011: $11,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 418682
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr Perry Hartfield (Science), Michael Docherty (Information Systems)
Discipline coordinator: Dr Perry Hartfield (Biochemistry Major); Dr Marion Bateson (Biotechnology Major); Dr John McMurtrie (Chemistry Major); Dr Ian Williamson (Ecology Major); Dr Robin Thwaites (Environmental Science Major); Dr Emad Kiriakous (Forensic Science Major); Dr Gary Huftile (Geoscience Major); Dr Christine Knox (Microbiology Major); Dr Greg Michael (Physics Major)
Campus: Gardens Point

Course Overview

When you are playing a computer game, have you ever wondered why your characters interact realistically with their environment as they move around their virtual world? If you think about it, you will quickly realise that there is no way games developers could have predicted the exact sequence of events that occurred in that precise game session. Something more general must be happening—there must be some physics in the game's virtual world.

This double degree offers you the opportunity to apply your scientific knowledge to the world of interactive games. In the science component, students complete a set of core units in science to support advanced-level studies in specialist areas. Students select a science major and undertake laboratory work and may participate in fieldwork. In the games and interactive entertainment component, students also complete a set of core units and choose a major. In their final year, students participate in a major group project to produce a significant piece of work using PC, mobile devices, consoles or virtual reality.

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.

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.

Cooperative Education Program

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

Find out more about the Cooperative Education Program.

Unit Incompatibility/Translation Information

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

Further Information

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

Games and Interactive Entertainment Coordinator
Michael Docherty
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Email: enquiry.scitech@qut.edu.au

Science Coordinator
Dr Perry Hartfield
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Discipline Coordinators

Biochemistry
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Biotechnology
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Ecology
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Environmental Science
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Forensic Science
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Geoscience
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Email: g.huftile@qut.edu.au

Microbiology
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Phone: +61 7 3138 2301
Email: c.knox@qut.edu.au

Physics
Dr Greg Michael
Phone: +61 7 3138 1584
Email: g.michael@qut.edu.au top

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 on deferment.

Bachelor of Applied Science(Study Area A)/Bachelor of Games and Interactive Entertain (Study Area A

Year 1, Semester 1	
	Applied Science Unit
	Applied Science Unit
INB180	Computer Games Studies
INB182	Introducing Design

Year 1, Semester 2	
	Applied Science Unit

	Applied Science Unit
INB181	Introduction to Games Production
INB104	Building IT Systems

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
	Applied Science Unit
INB380	Games Project

Bachelor of Games & Interactive Entertainment Majors Course structure (Block B)

Animation	
	Select 8 units from:
KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KVB105	Drawing for Design
KVB106	Drawing for Animation
KIB220	Animation Production
KIB203	Introduction to 3D Computer Graphics
KIB221	Animation: CG Toolkit

KIB225	Character Development, Conceptual Design and Animation Layout
KIB316	Virtual Environments
KIB325	Real-Time 3D Computer Graphics

Digital Media

KIB101	Visual Communication
KIB102	Visual Interactions
INB345	Mobile Devices
INB386	Advanced Multimedia Systems
KIB309	Embodied Interactions
KIB230	Interface and Information Design
INB385	Multimedia Systems
KIB314	Tangible Media

Game Design

INB280	Fundamentals of Game Design
INB272	Interaction Design
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB282	Games Level Design
DEB103	Visualisation 1
INB281	Advanced Game Design
KIB214	Design for Interactive Media

Software Technologies*

	* Requirements for this Major is a SA or better in Queensland Maths B (or equivalent)
INB270	Programming
MAB281	Mathematics for Computer Graphics
INB210	Databases
INB250	Computer Architectures and Systems
INB370	Software Development
INB371	Data Structures and Algorithms
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
OR	
INB383	AI for Games

Course structure - Major in Biochemistry

Year 1, Semester 1

| SCB111 | Chemistry 1 |
| SCB112 | Cellular Basis of Life |

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

| SCB120 | Plant and Animal Physiology |
| SCB121 | Chemistry 2 |

Year 2, Semester 1

| SCB110 | Science Concepts and Global Systems |

	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

| SCB122 | Cell and Molecular Biology |
| SCB123 | Physical Science Applications |

Year 3, Semester 1

| LQB381 | Biochemistry: Structure and Function |
| LQB383 | Molecular and Cellular Regulation |

Year 3, Semester 2

| LQB481 | Biochemical Pathways and Metabolism |
| LQB483 | Molecular Biology Techniques |

Year 4, Semester 1

| LQB581 | Functional Biochemistry |
| LQB582 | Biomedical Research Technologies |

Year 4, Semester 2

| LQB681 | Biochemical Research Skills |
| LQB682 | Protein Biochemistry and Bioengineering |

Course structure - Major in Biotechnology

Year 1, Semester 1

| SCB111 | Chemistry 1 |
| SCB112 | Cellular Basis of Life |

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

| SCB120 | Plant and Animal Physiology |
| SCB121 | Chemistry 2 |

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

| SCB122 | Cell and Molecular Biology |
| SCB123 | Physical Science Applications |

Year 3, Semester 1

| LQB381 | Biochemistry: Structure and Function |
| LQB383 | Molecular and Cellular Regulation |

Year 3, Semester 2

| LQB483 | Molecular Biology Techniques |
| LQB484 | Introduction to Genomics and Bioinformatics |

Year 4, Semester 1

	TWO units selected from:
LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Year 4, Semester 2

	TWO units selected from:
LQB682	Protein Biochemistry and Bioengineering
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions

Course structure - Major in Chemistry

Year 1, Semester 1

SCB111	Chemistry 1
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2 (Chemistry Pre-Major Strand)

SCB112	Cellular Basis of Life
SCB121	Chemistry 2

Year 2, Semester 1

MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems

Year 2, Semester 2

SCB123	Physical Science Applications
SCB131	Experimental Chemistry

Year 3, Semester 1

PQB312	Analytical Chemistry For Scientists and Technologists
PQB331	Structure and Bonding

Year 3, Semester 2

PQB401	Reaction Kinetics, Thermodynamics and Mechanisms
PQB442	Chemical Spectroscopy

Year 4, Semester 1

PQB502	Advanced Physical Chemistry
PQB531	Organic Mechanisms and Synthesis

Year 4, Semester 2

PQB631	Advanced Inorganic Chemistry
PQB642	Chemical Research

Course structure - Major in Ecology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)

SCB120	Plant and Animal Physiology
SCB122	Cell and Molecular Biology

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

NQB201	Planet Earth
NQB202	History of Life on Earth

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2

NQB421	Experimental Design
NQB422	Genetics and Evolution

Year 4, Semester 1

NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management

Year 4, Semester 2

NQB622	Conservation Biology
NQB623	Ecological Systems

Course structure - Major in Environmental Science

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

| NQB202 | History of Life on Earth |
| SCB123 | Physical Science Applications |

Year 3, Semester 1

| NQB302 | Earth Surface Systems |
| NQB321 | Ecology |

Year 3, Semester 2

| NQB403 | Soils and the Environment |
| NQB421 | Experimental Design |

Year 4, Semester 1

| NQB501 | Environmental Modelling |
| NQB502 | Field Methods in Natural Resource Sciences |

Year 4, Semester 2

| NQB601 | Sustainable Environmental Management |
| NQB602 | Environmental Chemistry |

Course structure - Major in Forensic Science

Year 1, Semester 1

| SCB111 | Chemistry 1 |
| SCB112 | Cellular Basis of Life |

Year 1, Semester 2 (Forensic Science Pre-Major Strand)

| SCB121 | Chemistry 2 |
| SCB122 | Cell and Molecular Biology |

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

| SCB123 | Physical Science Applications |
| SCB131 | Experimental Chemistry |

Year 3, Semester 1

| LQB383 | Molecular and Cellular Regulation |
| SCB384 | Forensic Sciences - From Crime Scene to Court |

Year 3, Semester 2

| JSB979 | Forensic Scientific Evidence |
| PQB312 | Analytical Chemistry For Scientists and Technologists |

Year 4, Semester 1

| PQB513 | Instrumental Analysis |
| PQB584 | Forensic Physical Evidence |

Year 4, Semester 2

| LQB680 | Forensic DNA Profiling |
| PQB684 | Forensic Analysis |

Course structure - Major in Geoscience

Year 1, Semester 1

| SCB111 | Chemistry 1 |
| SCB112 | Cellular Basis of Life |

Year 1, Semester 2 (Geoscience Pre-Major Strand)

| NQB201 | Planet Earth |
| SCB123 | Physical Science Applications |

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

| NQB202 | History of Life on Earth |
| SCB222 | Exploration of the Universe |

Year 3, Semester 1

| NQB311 | Mineralogy |
| NQB314 | Sedimentary Geology |

Year 3, Semester 2

| NQB411 | Petrology of Igneous and Metamorphic Rocks |
| NQB412 | Structural Geology and Field Methods |

Year 4, Semester 1

| NQB502 | Field Methods in Natural Resource Sciences |
| NQB513 | Geophysics |

Year 4, Semester 2

| NQB613 | Plate Tectonics |
| NQB615 | Geochemistry |

Course structure - Major in Microbiology

Year 1, Semester 1

| SCB111 | Chemistry 1 |
| SCB112 | Cellular Basis of Life |

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

| SCB120 | Plant and Animal Physiology |
| SCB121 | Chemistry 2 |

Year 2, Semester 1

| SCB110 | Science Concepts and Global Systems |
| | Plus either: |

MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

| SCB122 | Cell and Molecular Biology |
| SCB123 | Physical Science Applications |

Year 3, Semester 1

| LQB381 | Biochemistry: Structure and Function |
| LQB386 | Microbial Structure and Function |

Year 3, Semester 2

| LQB483 | Molecular Biology Techniques |
| LQB486 | Clinical Microbiology 1 |

Year 4, Semester 1

| LQB586 | Clinical Microbiology 2 |
| LQB587 | Applied Microbiology 1: Water, Air and Soil |

Year 4, Semester 2

| LQB686 | Microbial Technology and Immunology |
| LQB687 | Applied Microbiology 2: Food and Quality Assurance |

Course structure - Major in Physics

Year 1, Semester 1

MAB121	Calculus and Differential Equations
	Or
MAB120	Algebra and Calculus
SCB111	Chemistry 1
	Students who have completed only Maths B are required to take MAB120. Students who have completed both Maths B and Maths C should take MAB121.

Year 1, Semester 2 (Physics Pre-Major Strand)

| MAB122 | Algebra and Analytic Geometry |
| PQB250 | Mechanics and Electromagnetism |

Year 2, Semester 1

| SCB110 | Science Concepts and Global Systems |
| SCB112 | Cellular Basis of Life |

Year 2, Semester 2

MAB220	Computational Mathematics 1
	Or
MAB121	Calculus and Differential Equations
PQB251	Waves and Optics

Year 3, Semester 1

| MAB311 | Advanced Calculus |
| PQB350 | Thermodynamics of Solids and Gases |

Year 3, Semester 2

| PQB450 | Energy, Fields and Radiation |
| PQB451 | Electronics and Instrumentation |

Year 4, Semester 1

| PQB550 | Quantum and Condensed Matter Physics |
| PQB551 | Physical Analytical Techniques |

Year 4, Semester 2

| PQB650 | Advanced Theoretical Physics |
| PQB651 | Experimental Physics |

Potential Careers:

Air Traffic Controller, Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Ecologist, Environmental Scientist, Exploration Geologist, Forensic Biologist, Forensic Chemist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Laboratory Technician (Chemistry), Marine Scientist, Medical Biotechnologist, Medical Physicist, Microbiologist, Mine Geologist, Molecular Biologist, Natural Resource Scientist, Pharmaceutical Research Scientist, Physicist, Plant Biotechnologist, Population Ecologist, Research and Development Chemist, Virologist.

Bachelor of Fine Arts (Interactive and Visual Design) / Bachelor of Information Technology (IX69)

Year offered: 2011
Admissions: Yes
CRICOS code: 064812A
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $3,300 (indicative) per semester
International Fees (indicative): 2011: $10,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 409612
Past rank cut-off: 86
Past OP cut-off: 8
OP Guarantee: Yes
Assumed knowledge: English (4 SA) and Maths A, B or C (4 SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Course coordinator: Head, Undergraduate Studies (Creative Industries); Mr Mike Roggenkamp (Science and Technology)
Discipline coordinator: Mr Gavin Sade (Interactive and Visual Design)
Campus: Gardens Point and Kelvin Grove

Course Overview

Interactive and visual design is at the cutting edge of technological applications of creativity. You will complement your information technology degree with a fine arts major (14 studio units) and have a broad creative industries perspective from two foundation units.

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 the two strands of this degree, and gain deep understanding within your specialty area.

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 in the booming IT marketplace.

Career Outcomes

This double degree will set you up for a career in the rapidly expanding fields of contemporary communication and the application of new media technologies.

Professional Recognition

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

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

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.

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 on deferment.

Pathways to Futher Studies

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

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

Cooperative Education

The Faculty of Science and Technology'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.

Why choose this course?

With its emphasis on creative and experimental approaches to design for new technologies, this course will take you beyond vocational design courses. You will gain an understanding of established design principles and technical skills. Our studio approach will also support you to develop a strong conceptual understanding of design innovation, which you will apply through exploration in a choice of media and technologies.

You will develop creative approaches to designing visual and interactive media through your studio work. You will specialise your design interests in the areas of graphic design or interaction design for physical computing.

You can also complement your design studies with options in 3D computer graphics, film production, visual arts, sound design, game design, information technology or business to diversify your employment options.

You will build a portfolio of individual design practice, as well as experiencing industry-based, interdisciplinary team projects, which you can consolidate through research opportunities and industry placements.

Further Information

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

Science and Technology Coordinator
Richard Thomas
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Creative Industries Coordinator
Phone +61 7 3138 8114
Fax +61 7 3138 8116
Email: creativeindustries@qut.edu.au

OP Guarantee

The OP Guarantee will apply to this course from 2012 onwards.

Course structure for students who commenced in 2011

Notes	
	From year 2, students are recommended to take one of the following pathways:
	* Visual Communication (comprising KIB230, KVB204, KIB335 and KIB338); OR
	* Interactive Media Design (comprising KKB216, KIB205, KIB309 and KIB314)

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
KIB103	Introduction to Web Design and Development
KKB101	Creative Industries: People and Practices

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems
KIB101	Visual Communication
KKB102	Creative Industries: Making Connections

Year 2, Semester 1	
	IT Breadth Option Unit
	IT Breadth Option Unit
KIB104	Digital Media
KVB105	Drawing for Design

Year 2, Semester 2	
	IT Breadth Option Unit
	IT Breadth Option Unit
KIB102	Visual Interactions
KIB105	Animation and Motion Graphics

Year 3, Semester 1	
INB201	Scalable Systems Development
	IT Specialist Option Unit
KIB214	Design for Interactive Media
SELECT	Either KIB230 or KKB216:
KIB230	Interface and Information Design
KKB216	Graphical Development Environments for Media Interaction

Year 3, Semester 2	
INB300	Professional Practice in IT
	IT Specialist Option Unit
KIB216	Advanced Web Design
SELECT	Either KIB205 or KVB204:
KIB205	Programming for Visual Designers and Artists
KVB204	Graphic Design

Year 4, Semester 1	
INB301	The Business of IT
	IT Specialist Option Unit
KIB315	Contemporary Issues in Digital Media
SELECT	Either KIB309 or KIB335:
KIB309	Embodied Interactions
KIB335	Typography and Illustration

Year 4, Semester 2	
INB302	IT Capstone Project
	IT Specialist Option Unit
KIB322	Design Project
SELECT	Either KIB314 or KIB338:
KIB314	Tangible Media
KIB338	Print Media

Course structure for students who commenced in 2010

Notes

From year 2, students are recommended to take one of the following pathways:

* Visual Communication (comprising KIB230, KVB204, KIB335 and KIB338); OR

* Interactive Media Design (comprising KKB216, KIB205, KIB309 and KIB314)

Year 1, Semester 1

INB101	Impact of IT
INB102	Emerging Technology
KIB103	Introduction to Web Design and Development
KKB101	Creative Industries: People and Practices

Year 1, Semester 2

INB103	Industry Insights
INB104	Building IT Systems
KIB101	Visual Communication
KKB102	Creative Industries: Making Connections

Year 2, Semester 1

	IT Breadth Option Unit
	IT Breadth Option Unit
KIB104	Digital Media
KVB105	Drawing for Design

Year 2, Semester 2

	IT Breadth Option Unit
	IT Breadth Option Unit
KIB102	Visual Interactions
KIB105	Animation and Motion Graphics

Year 3, Semester 1

INB201	Scalable Systems Development
	IT Specialist Option Unit
KIB214	Design for Interactive Media
SELECT	Either KIB230 or KKB216:
KIB230	Interface and Information Design
KKB216	Graphical Development Environments for Media Interaction

Year 3, Semester 2

INB300	Professional Practice in IT
	IT Specialist Option Unit
KIB216	Advanced Web Design
SELECT	Either KIB205 or KVB204:
KIB205	Programming for Visual Designers and Artists
KVB204	Graphic Design

Year 4, Semester 1

INB301	The Business of IT

	IT Specialist Option Unit
KIB315	Contemporary Issues in Digital Media
SELECT	Either KIB309 or KIB335:
KIB309	Embodied Interactions
KIB335	Typography and Illustration

Year 4, Semester 2

INB302	IT Capstone Project
	IT Specialist Option Unit
KIB322	Design Project
SELECT	Either KIB314 or KIB338:
KIB314	Tangible Media
KIB338	Print Media

Course structure for students who commenced in 2009

Notes

From year 2, studentsare recommended to take one of the following pathways:

* Visual Communication (comprising KIB230, KVB204, KIB335 and KIB338); OR

* Interactive Media Design (comprising KKB216, KIB205, KIB309 and KIB314)

Year 1, Semester 1

INB101	Impact of IT
INB102	Emerging Technology
KIB101	Visual Communication
KKB101	Creative Industries: People and Practices

Year 1, Semester 2

INB103	Industry Insights
INB104	Building IT Systems
KIB103	Introduction to Web Design and Development
KKB102	Creative Industries: Making Connections

Year 2, Semester 1

	IT Breadth Option Unit
	IT Breadth Option Unit
KIB104	Digital Media
KVB105	Drawing for Design

Year 2, Semester 2

	IT Breadth Option Unit
	IT Breadth Option Unit
KIB102	Visual Interactions
KIB105	Animation and Motion Graphics

Year 3, Semester 1

INB201	Scalable Systems Development
	IT Specialist Option Unit
KIB214	Design for Interactive Media

SELECT	Either KIB230 or KKB216:
KIB230	Interface and Information Design
KKB216	Graphical Development Environments for Media Interaction

Year 3, Semester 2

INB300	Professional Practice in IT
	IT Specialist Option Unit
KIB216	Advanced Web Design
SELECT	Either KIB205 or KVB204:
KIB205	Programming for Visual Designers and Artists
KVB204	Graphic Design

Year 4, Semester 1

INB301	The Business of IT
	IT Specialist Option Unit
KIB315	Contemporary Issues in Digital Media
SELECT	Either KIB309 or KIB335:
KIB309	Embodied Interactions
KIB335	Typography and Illustration

Year 4, Semester 2

INB302	IT Capstone Project
	IT Specialist Option Unit
KIB322	Design Project
SELECT	Either KIB314 or KIB338:
KIB314	Tangible Media
KIB338	Print Media

IT Breadth Option Unit List

IT Breadth Option Units

You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.

INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Foundations of Computer Science
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.

1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB343	Advanced Data Mining and Data Warehousing
INB344	Search Engine Technology
3.	DIGITAL ENVIRONMENTS:
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB335	Information Resources
4.	ENTERPRISE SYSTEMS:
INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
5.	NETWORK SYSTEMS:
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks
6.	SOFTWARE ENGINEERING:
INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development
INB374	Enterprise Software Architecture
7.	WEB TECHNOLOGIES:
INB313	Electronic Commerce Site Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
8.	UNGROUPED:
INB204	Special Topic 1
INB205	Special Topic 2
INB304	Special Topic 3
INB305	Special Topic 4
INB306	Project 1
INB307	Project 2
INB308	Project 3
INB355	Cryptology and Protocols

INB365   Systems Programming

INB381   Modelling and Animation Techniques

INB382   Real Time Rendering Techniques

INB860   Computational Intelligence for Control and
            Embedded Systems

Potential Careers:

Academic, Advertising Professional, Animator, Computer
Game Programmer, Computer Games Developer, Digital
Composer, Government Officer, Information Officer,
Information Security Specialist, Internet Professional,
Marketing Officer/Manager, Media Industry Specialist,
Multimedia Designer, Organisational Communication
Specialist, Post-production specialist, Publishing
Professional, Technical Officer, Web Designer.

Bachelor of Applied Science / Bachelor of Laws (IX72)

Year offered: 2011
Admissions: Yes
CRICOS code: 066294B
Course duration (full-time): 5.5 years
Domestic fees (indicative): 2011: CSP $3,631 (indicative) per semester
International Fees (indicative): 2011: $11,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419712
Past rank cut-off: 92
Past OP cut-off: 5
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 528
Standard credit points per full-time semester: 48
Course coordinator: Dr Perry Hartfield (Science and Technology); Dr Bill Dixon (Law)
Discipline coordinator: Dr Perry Hartfield (Biochemistry Major); Dr Marion Bateson (Biotechnology Major); Dr John McMurtrie (Chemistry Major); Dr Ian Williamson (Ecology Major); Dr Robin Thwaites (Environmental Science Major); Dr Emad Kiriakous (Forensic Science Major); Dr Gary Huftile (Geoscience Major); Dr Christine Knox (Microbiology Major); Dr Greg Michael (Physics Major)
Campus: Gardens Point

Course Overview

Students choose the Bachelor of Applied Science/Bachelor of Laws in order to give themselves flexibility in career choices.

You will graduate with a wide variety of skills, such as analytical and writing skills, that can be applied in both a science and/ or legal profession. Combining these two disciplines means you can enhance your career prospects by specialising in a particular field of knowledge related to science and law, using your scientific knowledge in a law field, or by applying your legal knowledge to an area of science.

Career Outcomes

As a graduate, you may enter legal practice with an education in both the content and process of science and data analysis. This will enable you to deal with the complexities of litigation that have a scientific and technological dimension, such as inventions, trade secrets, quantitative evidence, genetic modification and constitution disputes giving rise to environmental issues. On the other hand, you may choose to follow a career path in the sciences, enhancing opportunities in a particular discipline such as environmental science or biotechnology through your knowledge of the law.

Professional Recognition

Graduates will satisfy the requirements for membership in the relevant professional body for their science major. See Studyfinder for details on the Bachelor of Applied Science majors.

At the end of your Law degree you will have completed the necessary units for admission to legal practice in Australia. To become a practising lawyer you will need to complete further practical legal training (e.g. Graduate Diploma in Legal Practice) and then apply for admission.

Course Design

The course is designed to cover all major areas of the law as well as allowing students to choose any of the following science majors that are offered in the Bachelor of Applied Science (SC01) course: biochemistry, biotechnology, chemistry, ecology, environmental science, forensic science, geoscience, microbiology and physics.

To complete the double degree in a shorter period of time, the co-major will be taken from the law program therefore it is not possible for students to choose any of the co-majors listed under the Bachelor of Applied Science course.

Further Information

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

Science Coordinator
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au

Law Coordinator
Dr Bill Dixon
Phone: +61 7 3138 2707

Discipline Coordinators

Biochemistry
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au

Biotechnology
Dr Marion Bateson
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au

Chemistry
Dr John McMurtrie
Phone: +61 7 3138 1220
Email: j.mcmurtrie@qut.edu.au

Ecology
Dr Ian Williamson
Phone: +61 7 3138 2779
Email: i.williamson@qut.edu.au

Environmental Science
Dr Robin Thwaites

Phone: +61 7 3138 2400
Email: r.thwaites@qut.edu.au

Forensic Science
Dr Emad Kiriakous
Phone: +61 7 3138 2501
Email: e.kiriakous@qut.edu.au

Geoscience
Dr Gary Huftile
Phone: +61 7 3138 4470
Email: g.huftile@qut.edu.au

Microbiology
Dr Christine Knox
Phone: +61 7 3138 2301
Email: c.knox@qut.edu.au

Physics
Dr Greg Michael
Phone: +61 7 3138 1584
Email: g.michael@qut.edu.au

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 on deferment.

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.

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.

Course structure - Law

Year 1, Semester 1	
LWB145	Legal Foundations A
LWB147	Torts A

Year 1, Semester 2	
LWB146	Legal Foundations B
LWB148	Torts B

Year 2, Semester 1	
LWB136	Contracts A
LWB238	Fundamentals of Criminal Law

Year 2, Semester 2	
LWB137	Contracts B
LWB239	Criminal Responsibility

Year 3, Semester 1	
LWB240	Principles of Equity
LWB243	Property Law A

Year 3, Semester 2	
LWB241	Trusts
LWB244	Property Law B

Year 4, Semester 1	
LWB242	Constitutional Law
LWB432	Evidence

Year 4, Semester 2	
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

Law Electives

Further information regarding Law Electives can be found at: http://www.law.qut.edu.au/study/courses/ugrad/lselect.jsp.

Transitional notes for students who have transferred from IF39 to IX72:

* LWB142 and LWB144 are now law contextual elective units.
* LWB145 Legal Foundations A was LWB141 Legal Institutions and Method.
* LWB146 Legal Foundations B was LWB143 Legal Research and Writing (prerequisite LWB141).
* LWB147 Torts A was LWB138 Fundamentals of Torts.
* LWB148 Torts B was LWB139 Select Issues in Torts (prerequisite LWB138).
* LWB242 Constitutional Law was LWB231 Introduction to Public Law and LWB235 Australian Federal Constitutional Law.
* LWB243 Property Law was LWB236 Real Property A (prerequisite LWB143 & LWB240).
* LWB244 Property Law B was LWB237 Real Property B (prerequisite LWB236).
* LWB333 Theories of Law is now an elective unit.
* LWB335 Administrative Law was LWB331 Administrative is now (prerequisite LWB231).
* LWB434 Advanced Research and Legal Reasoning is now LWB435 Legal Research in Practice (prerequisite LWB143/LWB145) and it is now an elective unit.
* Due to the restructure of the law course and the changes to the units required for admission purposes, the total number of elective units that students will be permitted to undertake will vary depending on the year of commencement and the number of units completed to date.

If you have not followed the standard course structure up to this point in time or are uncertain as to the correct number of electives available please contact the Law School Enquiries on (07)3138 2707 or email: law_enquiries@qut.edu.au.

Course structure - Major in Biochemistry

Year 1, Semester 1

SCB112	Cellular Basis of Life
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

SCB120	Plant and Animal Physiology
SCB122	Cell and Molecular Biology

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 2, Semester 2

SCB123	Physical Science Applications
SCB121	Chemistry 2

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 3, Semester 2

LQB481	Biochemical Pathways and Metabolism
LQB483	Molecular Biology Techniques

Year 4, Semester 1

LQB581	Functional Biochemistry
LQB582	Biomedical Research Technologies

Year 4, Semester 2

LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering

Course structure - Major in Biotechnology

Year 1, Semester 1

SCB112	Cellular Basis of Life
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

SCB120	Plant and Animal Physiology

SCB122	Cell and Molecular Biology

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 2, Semester 2

SCB123	Physical Science Applications
SCB121	Chemistry 2

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 3, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics

Year 4, Semester 1

	Select TWO units from:
LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Year 4, Semester 2

	Select TWO units from:
LQB682	Protein Biochemistry and Bioengineering
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions

Course structure - Major in Chemistry

Year 1, Semester 1

SCB112	Cellular Basis of Life
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2 (Chemistry Pre-Major Strand)

MAB120	Algebra and Calculus
SCB123	Physical Science Applications

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 2, Semester 2

SCB121	Chemistry 2
SCB131	Experimental Chemistry

Year 3, Semester 1

PQB312	Analytical Chemistry For Scientists and Technologists

PQB331	Structure and Bonding

Year 3, Semester 2

PQB401	Reaction Kinetics, Thermodynamics and Mechanisms
PQB442	Chemical Spectroscopy

Year 4, Semester 1

PQB502	Advanced Physical Chemistry
PQB531	Organic Mechanisms and Synthesis

Year 4, Semester 2

PQB631	Advanced Inorganic Chemistry
PQB642	Chemical Research

Course structure - Major in Ecology

Year 1, Semester 1

SCB112	Cellular Basis of Life
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)

NQB201	Planet Earth
SCB120	Plant and Animal Physiology

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 2, Semester 2

SCB121	Chemistry 2
	Or
SCB122	Cell and Molecular Biology
	Or
SCB123	Physical Science Applications
	Plus
NQB202	History of Life on Earth

Year 3, Semester 1

NQB321	Ecology
	Plus either
NQB322	Invertebrate Biology
	Or
NQB323	Plant Biology

Year 3, Semester 2

NQB421	Experimental Design
NQB422	Genetics and Evolution

Year 4, Semester 1

NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management

Year 4, Semester 2

NQB622	Conservation Biology
NQB623	Ecological Systems

Course structure - Major in Environmental Science

Year 1, Semester 1

SCB112	Cellular Basis of Life
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)

NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 2, Semester 2

SCB123	Physical Science Applications
SCB121	Chemistry 2

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2

NQB403	Soils and the Environment
NQB421	Experimental Design

Year 4, Semester 1

NQB501	Environmental Modelling
NQB502	Field Methods in Natural Resource Sciences

Year 4, Semester 2

NQB601	Sustainable Environmental Management
NQB602	Environmental Chemistry

Course structure - Major in Forensic Science

Year 1, Semester 1

SCB112	Cellular Basis of Life
	Either
MAB101	Statistical Data Analysis 1
	Or

MAB105	Preparatory Mathematics

Year 1, Semester 2 (Forensic Science Pre-Major Strand)

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 2, Semester 2

SCB121	Chemistry 2
SCB131	Experimental Chemistry

Year 3, Semester 1

LQB383	Molecular and Cellular Regulation
SCB384	Forensic Sciences - From Crime Scene to Court

Year 3, Semester 2

JSB979	Forensic Scientific Evidence
PQB312	Analytical Chemistry For Scientists and Technologists

Year 4, Semester 1

PQB513	Instrumental Analysis
PQB584	Forensic Physical Evidence

Year 4, Semester 2

LQB680	Forensic DNA Profiling
PQB684	Forensic Analysis

Course structure - Major In Geoscience

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2 (Geoscience Pre-Major Strand)

NQB201	Planet Earth
SCB222	Exploration of the Universe

Year 2, Semester 1

SCB112	Cellular Basis of Life
SCB111	Chemistry 1

Year 2, Semester 2

SCB123	Physical Science Applications
NQB202	History of Life on Earth

Year 3, Semester 1

| NQB311 | Mineralogy |
| NQB314 | Sedimentary Geology |

Year 3, Semester 2

| NQB411 | Petrology of Igneous and Metamorphic Rocks |
| NQB412 | Structural Geology and Field Methods |

Year 4, Semester 1

| NQB502 | Field Methods in Natural Resource Sciences |
| NQB513 | Geophysics |

Year 4, Semester 2

| NQB614 | Groundwater Systems |
| NQB615 | Geochemistry |

Course structure - Major in Microbiology

Year 1, Semester 1

SCB112	Cellular Basis of Life
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

| SCB120 | Plant and Animal Physiology |
| SCB122 | Cell and Molecular Biology |

Year 2, Semester 1

| SCB110 | Science Concepts and Global Systems |
| SCB111 | Chemistry 1 |

Year 2, Semester 2

| SCB123 | Physical Science Applications |
| SCB121 | Chemistry 2 |

Year 3, Semester 1

| LQB381 | Biochemistry: Structure and Function |
| LQB386 | Microbial Structure and Function |

Year 3, Semester 2

| LQB483 | Molecular Biology Techniques |
| LQB486 | Clinical Microbiology 1 |

Year 4, Semester 1

| LQB586 | Clinical Microbiology 2 |
| LQB587 | Applied Microbiology 1: Water, Air and Soil |

Year 4, Semester 2

| LQB686 | Microbial Technology and Immunology |
| LQB687 | Applied Microbiology 2: Food and Quality Assurance |

Course structure - Major in Physics

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB120	Algebra and Calculus
	Or
MAB121	Calculus and Differential Equations
	Students who have completed only Maths B are required to take MAB120. Students who have completed both Maths B and Maths C should take MAB121.

Year 1, Semester 2 (Physics Pre-Major Strand)

| MAB122 | Algebra and Analytic Geometry |
| PQB250 | Mechanics and Electromagnetism |

Year 2, Semester 1

| SCB112 | Cellular Basis of Life |
| SCB111 | Chemistry 1 |

Year 2, Semester 2

MAB121	Calculus and Differential Equations
	Or
MAB220	Computational Mathematics 1
PQB251	Waves and Optics

Year 3, Semester 1

| MAB311 | Advanced Calculus |
| PQB350 | Thermodynamics of Solids and Gases |

Year 3, Semester 2

| PQB450 | Energy, Fields and Radiation |
| PQB451 | Electronics and Instrumentation |

Year 4, Semester 1

| PQB550 | Quantum and Condensed Matter Physics |
| PQB551 | Physical Analytical Techniques |

Year 4, Semester 2

| PQB650 | Advanced Theoretical Physics |
| PQB651 | Experimental Physics |

Bachelor of Laws Elective List - Odd Years Offerings

Important Information

These offerings are current at time of publication but are subject to change.

The elective interest groups are provided to assist you in choosing electives that align with your career interests. You are not limited to selection from any one group, you can select from a range of elective interest groups.

The offering of elective units is subject to sufficient student enrolment numbers and staff availability.

As a guide, when a unit is offered during the day in one semester, it will be offered during

the evening the next time it is offered and vice versa (subject to staff and room availability and offering a spread of units across day and night in each semester).

Before enrolling in an 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 at https://qutvirtual.qut.edu.au/portal/pls/portal/un out_search_p.show.

All units on this list are offered in internal and external mode unless noted otherwise.

Semester 1 units:

Contextual +

LWB142   Law, Society and Justice

Property and Environmental

LWB485   Environmental Law

Commercial and Consumer

LWB307   Insolvency Law

LWB364   Introduction to Taxation Law

LWB366   Law of Commercial Entities

Intellectual Property and Technology

LWB486   Intellectual Property Law

Human Rights

LWB142   Law, Society and Justice

LWB313   Discrimination & Equal Opportunity Law

LWB309   Succession

Legal Skills

LWB418   Competition Moots 1

LWB419   Competition Moots 2

Entry for LWB418 and LWB419 is subject to being selected into a team to compete in one of the external mooting competitions that the QUT Law School will enter. Enrolments will be called for at a later date via e-mail.

Internal mode only.

LWB498   Dispute Resolution and Non-adversarial Practice

Research and Theory

LWB435   Legal Research in Practice

LWB497   Advanced Research Project

Application forms and guidelines can be found at http://www.law.qut.edu.au/study/forms.jsp and must be lodged at the Level 4 Reception C Block QUT Gardens Point. Forms must be submitted no later than 2 weeks prior to the commencement of semester

Internal mode only.

Work Integrated Learning

LWB420   Internship

Any student wishing to undertake this unit in Semester 1 must fill out the registration form available at http://www.law.qut.edu.au/study/forms.jsp and lodge it at the Level 4 Reception C Block QUT Gardens Point. This process is to register your interest only. It does not guarantee a place on the enrolment quota list. However, to be eligible for selection for this unit, you must register your interest on this list a selection process will then follow and you will be advised of the outcome by email. No other method of enrolment will be approved or accepted for this unit.

Applications for 2011 have closed

Internal mode only.

Semester 2 units:

Contextual +

LWB144   Laws and Global Perspectives

LWB150   Lawyering and Dispute Resolution

LWB149   Indigenous Legal Issues

Property and Environmental

LWB312   Real Estate Transactions

LWB489   Native Title Law and Practice

Commercial and Consumer

LWB410   Competition Law

* see notes below

LWB367   Law of Corporate Governance

* see notes below

Intellectual Property and Technology

LWB482   Internet Law

LWB423   Intellectual Property and Technology Law Clinic

Internal mode only.

Human Rights

LWB149   Indigenous Legal Issues

LWB302   Family Law

LWB308   Australian Employment Law

* see notes below

LWB483   Medico-Legal Issues

LWB496   Australian and Comparative Human Rights Law

International

LWB144   Laws and Global Perspectives

LWB406   Fundamentals of Public International Law

LWB407   Private International Law

Legal Skills

LWB150   Lawyering and Dispute Resolution

LWB356   Advocacy

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au. The number of student enrolments in this unit may be capped. External students are not excluded from undertaking this unit, provided that they are able to meet all attendance requirements. Final year students and students who have not had the opportunity to undertake other skills or work integrated learning units will be given preference.

Block mode only.

LWB361   Drafting

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au. The number of student enrolments in this unit may be capped. External students are not excluded from undertaking this unit, provided that they are able to meet all attendance requirements. Final year students and students who have not had the opportunity to undertake other skills or work integrated learning units will be given preference.

LWB413   Queensland Parliamentary Internship Program

This unit is for final year students only. There is a limited number of internships available and therefore enrolment in this unit is subject to approval by the unit co-ordinator. Interested students should contact John Pyke (j.pyke@qut.edu.au). NOTE: Due to complications in the Parliamentary calendar there may be no internships available in 2011. Please contact John Pyke for further information.

Internal mode only.

LWB418   Competition Moots 1

LWB419   Competition Moots 2

Entry to LWB418 and LWB419 is subject to being selected into a team to compete in one of the external mooting competitions that the QUT Law School will enter.

Internal mode only.

Research and Theory

LWB497   Advanced Research Project

Application forms and guidelines can be found at http://www.law.qut.edu.au/study/forms.jsp and must be lodged at the Level 4 Reception C Block QUT Gardens Point. Forms must be submitted no later than 2 weeks prior to the commencement of semester.

Internal mode only.

Work Integrated Learning

LWB421   Learning in Professional Practice

(Prior to enrolment in LWB421 students must have organised a legal professional placement as set out in the unit outline).

LWB422   Virtual Law Placement

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au.

LWB456   Legal Clinic (Organised Program)

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au.

Internal mode only.

LWB423   Intellectual Property and Technology Law Clinic

Notes:

+ The units LWB142 Law Society and Justice, LWB149 Indigenous Legal Issues, LWB144 Laws and Global Perspectives and LWB150 Dispute Resolution appear twice as they are contextual elective choices in first year, if you are completing a straight law degree (LW34). They are also elective choices within the various elective interest groups that can be undertaken in any year of your degree.

*these starred units are alternating units and will generally only be offered in odd years. Alternating units which are generally offered in even years include: LWB333 Theories of Law; LWB459 Commercial & Consumer Law; LWB359 Advanced Taxation Law; LWB463 Immigration & Refugee Law; LWB480 Media Law and LWB494 Principles of Sentencing. The offering of these units will be subject to student demand and staff availability.

For further information on the Work Integrated Learning (Work Placement) units see: http://www.law.qut.edu.au/about/wil/ and http://www.law.qut.edu.au/about/wil/faq.jsp

Restricted Entry Units have quota limits imposed. Although students are able to enrol in these units on-line no places are guaranteed until after the applications are closed.

External students are not excluded from undertaking these units, provided that they are able to meet all the attendance requirements.

Bachelor of Laws Elective List - Even Years Offerings

Important Information

These offerings are current at time of publication but are subject to change.

The elective interest groups are provided to assist you in choosing electives that align with your career interests. You are not limited to selection from any one group, you can select from a range of elective interest groups.

The offering of elective units is subject to sufficient student enrolment numbers and staff availability.

As a guide, when a unit is offered during the day in one semester, it will be offered during the evening the next time it is offered and vice versa (subject to staff and room availability and offering a spread of units across day and night in each semester).

Before enrolling in an 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 at https://qutvirtual.qut.edu.au/portal/pls/portal/un out_search_p.show.

All units on this list are offered in internal and

external mode unless noted otherwise.

Semester 1 units:

Contextual +

LWB142	Law, Society and Justice
LWB150	Lawyering and Dispute Resolution

Property and Environmental

LWB485	Environmental Law

Commercial and Consumer

LWB307	Insolvency Law
LWB364	Introduction to Taxation Law
LWB366	Law of Commercial Entities
LWB459	Commercial and Consumer Law
	* see notes below

Intellectual Property and Technology

LWB486	Intellectual Property Law
LWB499	Creative Commons Clinic
	(needs restricted entry info)
	Block mode only.

Human Rights

LWB142	Law, Society and Justice
LWB313	Discrimination & Equal Opportunity Law
LWB309	Succession
LWB460	Sports Law

Legal Skills

LWB418	Competition Moots 1
LWB419	Competition Moots 2

Entry for LWB418 and LWB419 is subject to being selected into a team to compete in one of the external mooting competitions that the QUT Law School will enter. Enrolments will be called for at a later date via e-mail.

Internal mode only. Closing date for applications: Enrolments will be called for at a later date via e-mail.

LWB498	Dispute Resolution and Non-adversarial Practice

Research and Theory

LWB435	Legal Research in Practice
LWB497	Advanced Research Project

Application forms and guidelines can be found at http://www.law.qut.edu.au/study/forms.jsp and must be lodged at the Level 4 Reception C Block QUT Gardens Point. Forms must be submitted no later than 2 weeks prior to the commencement of semester

Internal mode only. Closing Date for Applications: Forms must be submitted no later than 2 weeks prior to the commencement of semester

LWB333	Theories of Law
	* see notes below

Work Integrated Learning

LWB420	Internship

Any student wishing to undertake this unit in Semester 1 must fill out the registration form available at http://www.law.qut.edu.au/study/forms.jsp and lodge it at the Level 4 Reception C Block QUT Gardens Point. This process is to register your interest only. It does not guarantee a place on the enrolment quota list. However, to be eligible for selection for this unit, you must register your interest on this list a selection process will then follow and you will be advised of the outcome by email. No other method of enrolment will be approved or accepted for this unit.

Internal mode only. Closing date for applications: 5pm Thursday 18 October 2011

Semester 2 units:

Contextual +

LWB144	Laws and Global Perspectives
LWB149	Indigenous Legal Issues

Property and Environmental

LWB312	Real Estate Transactions
LWBXXX	Climate Change Law

Commercial and Consumer

LWB359	Advanced Taxation Law
	* see notes below
LWB363	Insurance Law
LWBXXX	Consumer Financial Services Law and Regulation

Intellectual Property and Technology

LWB482	Internet Law
LWB423	Intellectual Property and Technology Law Clinic
	Internal mode only.
LWB480	Media Law
	* see notes below

Human Rights

LWB149	Indigenous Legal Issues
LWB302	Family Law
LWB494	Principles of Sentencing
	* see notes below
LWB463	Immigration and Refugee Law
	* see notes below

International

LWB144	Laws and Global Perspectives

LWB406   Fundamentals of Public International Law

Legal Skills

LWB356   Advocacy

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au. The number of student enrolments in this unit may be capped. External students are not excluded from undertaking this unit, provided that they are able to meet all attendance requirements. Final year students and students who have not had the opportunity to undertake other skills or work integrated learning units will be given preference.

Block mode only. Closing Date for Applications: 5pm Thursday 19 April 2011

LWB413   Queensland Parliamentary Internship Program

This unit is for final year students only. There is a limited number of internships available and therefore enrolment in this unit is subject to approval by the unit co-ordinator. Interested students should contact John Pyke (j.pyke@qut.edu.au). NOTE: Due to complications in the Parliamentary calendar there may be no internships available in 2011. Please contact John Pyke for further information.

Internal mode only. Closing Date for Applications: End of May 2012

LWB418   Competition Moots 1

Entry is subject to being selected into a team to compete in one of the external mooting competitions that the QUT Law School will enter.

Internal mode only. Closing date for applications: Enrolments will be called for at a later date via e-mail.

Research and Theory

LWB497   Advanced Research Project

Application forms and guidelines can be found at http://www.law.qut.edu.au/study/forms.jsp and must be lodged at the Level 4 Reception C Block QUT Gardens Point. Forms must be submitted no later than 2 weeks prior to the commencement of semester.

Internal mode only. Closing Date for Applications: Forms must be submitted no later than 2 weeks prior to the commencement of semester.

Work Integrated Learning

LWB421   Learning in Professional Practice

(Prior to enrolment in LWB421 students must have organised a legal professional placement as set out in the unit outline).

LWB422   Virtual Law Placement

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au.

Closing Date for Applications: 5pm Thursday 19 April 2011

LWB456   Legal Clinic (Organised Program)

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au.

Internal mode only. Closing Date for Applications: 5pm Thursday 19 April 2011

LWB423   Intellectual Property and Technology Law Clinic

Places in this unit are limited. Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au. A particular selection process will then follow.

Internal mode only. Closing Date for Applications: 5pm Thursday 19 April 2011

Notes:

+ The units LWB142 Law Society and Justice, LWB149 Indigenous Legal Issues, LWB144 Laws and Global Perspectives and LWB150 Dispute Resolution appear twice as they are contextual elective choices in first year, if you are completing a straight law degree (LW34). They are also elective choices within the various elective interest groups that can be undertaken in any year of your degree.

*these starred units are alternating units and will generally only be offered in even years. Alternating units which are generally offered in even years include: LWB489 Native Title and Cultural Heritage Law; LWB410 Comparative Law; LWB367 Law of Corporate Governance; LWB308 Australian Employment Law; LWB483 Medico-Legal Issues and LWB496 Human Rights Law. The offering of these units will be subject to student demand and staff availability.

For further information on the Work Integrated Learning (Work Placement) units see: http://www.law.qut.edu.au/about/wil/ and http://www.law.qut.edu.au/about/wil/faq.jsp

Restricted Entry Units have quota limits imposed. Although students are able to enrol in these units on-line no places are guaranteed until after the applications are closed.

External students are not excluded from undertaking these units, provided that they are able to meet all the attendance requirements.

Bachelor of Laws Summer Units

Important Information

These offerings are current at time of publication but are subject to change.

The offering of elective units is subject to sufficient student enrolment numbers and staff availability.

Undergraduate Core Units

LWB239   Criminal Responsibility

LWB241   Trusts

LWB244   Property Law B

LWB334   Corporate Law

LWB335	Administrative Law
LWB431	Civil Procedure
LWB432	Evidence
LWB433	Professional Responsibility

Undergraduate Elective Units

LWB302	Family Law
LWB364	Introduction to Taxation Law
LWB421	Learning in Professional Practice
LWB486	Intellectual Property Law
LWB498	Dispute Resolution and Non-adversarial Practice

Graduate destination streams

Legal Practice

Electives that may be offered by the Law School that are particularly relevant to students considering a future career in legal practice include:

LWB302	Family Law
LWB307	Insolvency Law
LWB308	Australian Employment Law
LWB309	Succession
LWB312	Real Estate Transactions
LWB313	Discrimination & Equal Opportunity Law
LWB356	Advocacy
LWB359	Advanced Taxation Law
LWB361	Drafting
LWB363	Insurance Law
LWB364	Introduction to Taxation Law
LWB407	Private International Law
LWB410	Competition Law
LWB418	Competition Moots 1
LWB435	Legal Research in Practice
LWB454	Banking and Finance Law
LWB459	Commercial and Consumer Law
LWB460	Sports Law
LWB463	Immigration and Refugee Law
LWB480	Media Law
LWB482	Internet Law
LWB483	Medico-Legal Issues
LWB485	Environmental Law
LWB486	Intellectual Property Law
LWB489	Native Title Law and Practice
LWB494	Principles of Sentencing
LWB496	Australian and Comparative Human Rights Law
LWB498	Dispute Resolution and Non-adversarial Practice
LWB499	Creative Commons Clinic

LWBXXX	Consumer and Financial Services Law
LWBXXX	Climate Change Law

Public Sector

Electives that may be offered by the Law School that are particularly relevant to students considering a future career in the public sector include:

LWB333	Theories of Law
LWB406	Fundamentals of Public International Law
LWB413	Queensland Parliamentary Internship Program
LWB420	Internship
LWB463	Immigration and Refugee Law
LWB485	Environmental Law
LWB486	Intellectual Property Law
LWB494	Principles of Sentencing
LWB496	Australian and Comparative Human Rights Law
LWB499	Creative Commons Clinic

Private Enterprise

Electives that may be offered by the Law School that are particularly relevant to students considering a future career in the private sector include:

LWB308	Australian Employment Law
LWB366	Law of Commercial Entities
LWB367	Law of Corporate Governance
LWB410	Competition Law
LWB421	Learning in Professional Practice

Placement Electives

Electives which involve students undertaking real world professional experience include:

LWB413	Queensland Parliamentary Internship Program
LWB420	Internship
LWB421	Learning in Professional Practice
LWB422	Virtual Law Placement
LWB423	Intellectual Property and Technology Law Clinic

Potential Careers:

Academic, Analytical Chemist, Astrophysicist, Barrister, Biochemist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Crown Law Officer, Ecologist, Environmental Scientist, Forensic Chemist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, In-House Lawyer, Industrial Chemist, Laboratory Technician (Chemistry), Lawyer, Marine Scientist, Medical Biotechnologist, Medical Physicist, Microbiologist, Mine Geologist, Natural Resource Scientist, Physicist, Plant Biotechnologist, Population Ecologist, Scientist, Solicitor, Virologist.

Graduate Certificate in Research Commercialisation (IX97)

Year offered: 2011
Admissions: Yes
Course duration (full-time): 1 semester. Subject to maximum time limit of 1 years.
Course duration (part-time): 2 semesters. Subject to maximum time limit of 2 years.
Domestic fees (indicative): 2011: $10,000 (indicative) per semester
International Fees (indicative): 2011: $11,250 (indicative) per semester
Course coordinator: Professor Paul Burnett
Campus: Internet

IX97 - Graduate Certificate in Research Commercialisation

Course structure	
IFP100	Knowledge Transfer and Research Commercialisation
IFP101	Leadership and Workplace Communication
IFP102	Project Management and Research
IFP103	Public Policy and Research
IFP104	Entrepreneurial Foundations
IFP105	Principles and Practice of Research Management
IFP106	Managing Research Careers
IFP107	Global Sustainability

Potential Careers:

Academic, Administrator, Arts Administrator, Biochemist, Bioengineer, Bioinformatician, Biologist, Biomechanical Engineer, Biomedical Engineer, Biotechnologist, Biotechnology Business/Investment Analyst, Business Analyst, Business Development Officer, Cell Biologist, Civil Engineer, Contract Administrator, Financial Advisor/Analyst, Government Officer, International Business Specialist, Marine Scientist, Market Research Manager, Marketing Officer/Manager, Mathematician, Microbiologist, Policy Officer, Public Servant, Scientist, Social Scientist, Urban Designer, Visual Artist, Web Designer.

Master of Research and Development Management (IX99)

Year offered: 2011
Admissions: Yes
Course duration (full-time): 3 semesters.
Course duration (part-time): 6 semesters.
Domestic fees (indicative): 2011: $10,000 (indicative) per semester
International Fees (indicative): 2011: $11,250 per semester
Course coordinator: Professor Paul Burnett
Campus: Internet

Entry Requirements

The minimum entry requirement for this course is a four year undergraduate degree or three years plus either an honours year or postgraduate coursework year in any discipline. Applicants who do not meet these academic requirements may be eligible to enter the course on the basis of professional activities completed in research management, research commercialisation or related fields that satisfies the course coordinator.

Important Note

This course is an online course and there is no requirement for a face-to-face session.

Course Enquiries

research.enrolment@qut.edu.au
This course is offered jointly by the 5 ATN universities - Curtin University of Technology ; Queensland University of Technology; RMIT University; University of South Australia ; University of Technology Sydney

Full-time students

Full-time students should enrol in IFP100, IFP105, IFP108, IFP109, IFP110 and 7 other units to complete 144 credit points in three semesters.

Part-time students

Part- time students can enrol in one or two units per semester for up to six semesters maximum.

Early Exit Options

Graduate Certificate and Diploma exit points are available following completion of four and eight units.

Advanced Standing

Students with appropriate prior qualifications and/or professional experience may apply for advanced standing of up to 48CP towards the Master of R&D Management. Recognition for concurrent Professional Development activities may be possible. Registered members of professional societies may be eligible to receive advanced standing for approved professional development activities completed during enrolment in the award.

Concurrent Enrolment

Research students are allowed to enrol concurrently in the Graduate Certificate and in their research course subject to the approval of the Research Degrees Committee. Research students may apply for leave of absence from their research course for the period of full time enrolment in the Graduate Certificate.

For further information relating to enrolment into a Research and Development Course, including pathways, please refer to Research and Development Courses - Enrolment website

Course structure

IFP100	Knowledge Transfer and Research Commercialisation
IFP101	Leadership and Workplace Communication
IFP102	Project Management and Research
IFP103	Public Policy and Research
IFP104	Entrepreneurial Foundations
IFP105	Principles and Practice of Research Management
IFP106	Managing Research Careers
IFP107	Global Sustainability
IFP108	Strategic Issues in Research Management
IFP109	Contexts For Research & Development Management
IFP110	R&D Management Project 1
IFP111	R&D Management Project 2

Potential Careers:

Academic, Administrator, Biochemist, Bioengineer, Bioinformatician, Biologist, Biomechanical Engineer, Biomedical Engineer, Biotechnologist, Biotechnology Business/Investment Analyst, Business Analyst, Business Development Officer, Cell Biologist, Civil Engineer, Contract Administrator, Financial Advisor/Analyst, Government Officer, International Business Specialist, Marine Scientist, Market Research Manager, Marketing Officer/Manager, Mathematician, Microbiologist, Policy Officer, Public Servant, Scientist, Social Scientist, Urban Designer, Visual Artist, Web Designer.

Bachelor of Applied Science (Medical Science) (LS37)

Year offered: 2011
Admissions: Yes
CRICOS code: 020331D
Course duration (full-time): 3 Years
Course duration (part-time): 6 Years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,625 (indicative) per semester
Domestic Entry: February
International Entry: February and July (Conditions apply for July entry)
QTAC code: 418201
Past rank cut-off: 79
Past OP cut-off: 11
OP Guarantee: Yes
Assumed knowledge: English (4, SA), Maths B (4, SA) and Chemistry (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 300
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Ms Anne-Marie Christensen
Campus: Gardens Point

Overview

The Bachelor of Applied Science (Medical Science) leads to a range of exciting career opportunities. The degree is the preferred qualification for employment in the pathology industry as a medical scientist. It gives you practical experience in the most up-to-date diagnostic techniques and the opportunity to learn from current professionals in the workplace.

Why Choose this Course?

This is the only medical science degree in Southern Queensland which is accredited with the Australian Institute of Medical Scientists (AIMS). In recent years more than 90 per cent of graduates seeking employment were successful within four months of graduation.

The course is designed in consultation with senior staff in pathology laboratories, so you will gain advanced knowledge of new diagnostic techniques used in the workplace. You will undertake practical classes in QUT's state-of-the-art laboratories, allowing you to graduate with extensive experience using equipment found in industry. You will undertake clinical placements in pathology laboratories giving you a chance to use your skills in a real workplace.

Career Outcomes

Scientists in the pathology industry perform tests on human blood or tissue and other forms of testing in the areas of immunology, haematology, microbiology, histopathology, cytology and biochemistry. You may decide to specialise in areas such as leukaemia diagnosis, cytogenetics, stem cell manipulation, tumour diagnosis, cytological diagnosis, DNA testing or forensic testing, or proceed to a managerial position within a pathology laboratory or hospital.

The course also provides a first degree for students wishing to undertake postgraduate studies in medicine. Graduates also have the opportunity to proceed to postgraduate studies leading to a career in medical research. Graduates are currently working as researchers in areas such as malaria, virology, stem cells, immunology and molecular biology.

Professional Recognition

Graduates are immediately eligible for graduate membership of the Australian Institute of Medical Scientists (AIMS) and will have completed the academic requirements for admission as full members.

Other Course Requirements

Work Experience Program: This course includes a mandatory Summer Program between years two and three of the full-time course. During the Summer Program you will be required to undertake a minimum six-week work experience program in a practising pathology laboratory. Proof of successful vaccination against Hepatitis B must be provided at the end of first semester of the second year of the course.

Blue Card

A current blue card authorised with QUT may be required prior to commencing the clinical placement components of this course. For more information visit Blue Card and ensure that you allow adequate time for processing your application and issuing of the card in order to avoid clinical experience delays.

Your course

Year 1

The Bachelor of Applied Science (Medical Science) commences with a solid grounding in life sciences, mathematics, chemistry and physics. You will undertake further intensive study in human physiology, anatomy, cell and molecular biology. With QUT's practical approach to teaching, you will not only learn the theory, but gain a wealth of practical experience in QUT's state-of-the-art laboratories.

Year 2

You will proceed to the topics of biochemistry, microbiology and pathology before sampling various specialisations like immunology, haematology and histopathology. During practical classes you will learn the latest techniques used in the pathology industry and improve your skills to professional standards. At the end of the year you will be ready to undertake a six-week placement in a pathology laboratory to further develop your skills under the guidance of professionals in the workplace.

Year 3

The final year builds on the key areas of biochemistry, microbiology, immunology, haematology, histopathology and introduces immunohaematology. You will develop your

skills to an advanced level and further refine your laboratory techniques to ensure that, when you graduate, you will be ready to operate confidently in the workplace. You can take advantage of QUT's close links with the pathology industry to further enhance your employment prospects.

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 on deferment.

Further Information

For further information about this course, please contact:

Course Coordinator

Ms Anne-Marie Christensen
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Full-time Course Structure

Year 1, Semester 1

MAB141	Mathematics and Statistics for Medical Science
PCB150	Physics 1H
SCB112	Cellular Basis of Life
SCB113	Chemistry for Health and Medical Science

Year 1, Semester 2

LSB250	Human Physiology
LSB255	Human Anatomy
SCB122	Cell and Molecular Biology
SCB131	Experimental Chemistry

Year 2, Semester 1

LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function
LSB325	Biochemistry
LSB365	Pathology

Year 2, Semester 2

LSB425	Quantitative Medical Science
LSB435	Diagnostic Microbiology 1
LSB438	Immunology 1
LSB465	Histopathology 1

Year 2, Summer Semester

LSB480	Professional Practice

Year 3, Semester 1

LSB525	Clinical Biochemistry 1
LSB535	Microbial Immunology
LSB555	Haematology 1
LSB565	Histopathology 2

Year 3, Semester 2

LSB625	Clinical Biochemistry 2
LSB635	Diagnostic Microbiology 2
LSB655	Haematology 2
LSB665	Immunohaematology

Part-time Course Structure - For students who will commence in 2011, & who commenced in 2009 & 2010

Year 1, Semester 1

SCB112	Cellular Basis of Life
SCB113	Chemistry for Health and Medical Science

Year 1, Semester 2

SCB122	Cell and Molecular Biology
SCB131	Experimental Chemistry

Year 2, Semester 1

MAB141	Mathematics and Statistics for Medical Science
PCB150	Physics 1H

Year 2, Semester 2

LSB250	Human Physiology
LSB255	Human Anatomy

Year 3, Semester 1

LQB386	Microbial Structure and Function
LSB365	Pathology

Year 3, Semester 2

LSB435	Diagnostic Microbiology 1
LSB438	Immunology 1

Year 4, Semester 1

LQB383	Molecular and Cellular Regulation
LSB325	Biochemistry

Year 4, Semester 2

LSB425	Quantitative Medical Science
LSB465	Histopathology 1

Year 5, Semester 1

LSB525	Clinical Biochemistry 1
LSB535	Microbial Immunology

Year 5, Semester 2

LSB625	Clinical Biochemistry 2
LSB635	Diagnostic Microbiology 2

Year 5, Summer Semester

LSB480	Professional Practice

Year 6, Semester 1

LSB555	Haematology 1

LSB565   Histopathology 2

Year 6, Semester 2

LSB655   Haematology 2

LSB665   Immunohaematology

Part-time Course Structure - For students who commenced in 2008

Year 1, Semester 1

MAB141   Mathematics and Statistics for Medical Science

SCB112   Cellular Basis of Life

Year 1, Semester 2

SCB113   Chemistry for Health and Medical Science

SCB122   Cell and Molecular Biology

Year 2, Semester 1

PCB150   Physics 1H

SCB131   Experimental Chemistry

Year 2, Semester 2

LSB250   Human Physiology

LSB255   Human Anatomy

Year 3, Semester 1

LQB386   Microbial Structure and Function

LSB325   Biochemistry

Year 3, Semester 2

LSB435   Diagnostic Microbiology 1

LSB438   Immunology 1

Year 4, Semester 1

LQB383   Molecular and Cellular Regulation

LSB365   Pathology

Year 4, Semester 2

LSB425   Quantitative Medical Science

LSB465   Histopathology 1

Year 5, Semester 1

LSB525   Clinical Biochemistry 1

LSB535   Microbial Immunology

Year 5, Semester 2

LSB625   Clinical Biochemistry 2

LSB635   Diagnostic Microbiology 2

Year 5, Summer Semester

LSB480   Professional Practice

Year 6, Semester 1

LSB555   Haematology 1

LSB565   Histopathology 2

Year 6, Semester 2

LSB655   Haematology 2

LSB665   Immunohaematology

Potential Careers:

Biochemist, Clinical Laboratory Scientist, Medical Scientist, Microbiologist, Operations Manager, Pathology Scientist.

Bachelor of Biotechnology Innovation (LS50)

Year offered: 2011
Admissions: No
CRICOS code: 037681J
Course duration (full-time): 4 years
Course duration (part-time): 8 years
Domestic fees (indicative): 2011: CSP rate available August 2010
International Fees (indicative): 2011: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 77
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA), Maths B (4, SA) and Chemistry (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Discontinued Course

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

Career Opportunities

The Bachelor of Biotechnology Innovation is training the next generation of bioentrepreneurs to translate research outcomes into business opportunities. Graduates can be business-savvy scientists, or operate in the world of commercialisation and technology transfer or start up their own biotechnology-based enterprise bringing their own products to market. The emphasis on innovation and entrepreneurship means that graduates are comfortable working in a start up company environment or on new projects in established enterprises. Traditional roles in research-focussed organisations are also available.

Graduates are taking up key positions in the biotechnology industry sector as scientists, business development officers building new businesses from emerging technologies and as commercialisation officers evaluating and financing the commercialisation of new biotechnology products.

Biotechnology is a global industry with many countries promoting the sector as a major pillar of future economic development. Career opportunities exist internationally and graduates are encouraged to think beyond Australia.

Course Design

The Bachelor of Biotechnology Innovation, a degree with Honours, was the first degree of its type in Australia and aims to provide highly trained and motivated graduates skilled in the science and business and biotechnology.

Graduates undertake the same basic and advanced biotechnology science as students in other science-based courses, gaining requisite theoretical and practical skills. In this course, however, basic and advanced business units are undertaken highlighting entrepreneurial skills and biotechnology commercialisation. Integration and synthesis of the disparate disciplines is an essential component of the course.

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

Your Course

Year 1

In the first year you will lay a solid foundation of basic science and business skills and you will have your first opportunity to network with industry and academic mentors. Through the student BioEnterprise Scheme, you will join with a group of fellow students to form a virtual biotechnology company, which you will operate over the entire length of the course. Your company will invent biotechnology-oriented products or processes and formulate strategies to bring them from laboratory to the marketplace under the guidance of industry and academic mentors.

Year 2

You will build on your foundation year and introduce advanced disciplinary concepts relevant to business and science, integrating these two disciplines to provide you with the skills to operate in this niche environment. You may promote your company to industry representatives at the annual Stellar Start-ups function.

Year 3

In the science units, you will focus on biotechnological applications while the integrative business units teach you skils in business planning and commercialisation.

Year 4

Your company may undetake an industry-based or consultancy project with an industry partner. The network of business associates you have developed over the length of the course will be the key to success as you embark on your search for your first job. Alternatively, you may wish to be your own boss as you establish your own company.

Professional Recognition

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

Why Choose this Course?

If you'd like to work in the dynamic world of translating science discoveries into money-making enterprises, meeting people, evaluating projects, picking winners and running with them, then this course is for you!

While research innovation is critical to the future of Australian industry, and that of many other nations, it is the commercialisation of innovations that will realise any potential and serve to build and strengthen local biotechnology industry. Australia already produces many competent and highly regarded scientists but has a poor history and capitalising on research outcomes. The Federal and various State Governments are investing hundreds of millions of dollars in research innovation and commercialisation and the emphasis has moved to bringing emerging technologies into the marketplace. There is an increasing demand for skilled professionals who can drive research commercialisation in the science and technology sector in Australia and in the global marketplace. The Bachelor of Biotechnology Innovation has created a new rapid pathway into the high-flying world of commercialisation and technology transfer.

Graduates of the Bachelor of Biotechnology Innovation have realised outstanding job outcomes and continue to be quickly employed by industry, often successfully competing against graduates with PhDs.

Contact Details

For further information about this course, please contact:

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

Full-time Course Structure - For students who commenced in 2009 - First Semester Entry

Year 1 - Semester 1

BSB115	Management
MAB101	Statistical Data Analysis 1
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

BSB126	Marketing
LSB258	Principles of Human Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

AMB240	Marketing Planning and Management
LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function
LSB325	Biochemistry

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
LQB489	Plant Physiology and Cell Biology
MGB223	Entrepreneurship and Innovation

Year 3, Semester 1

LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth

Year 3, Semester 2

BSB311	Innovation Commercialisation Strategies
LQB682	Protein Biochemistry and Bioengineering
LQB686	Microbial Technology and Immunology
MGB200	Leading Organisations

Year 4, Semester 1

LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation
LSB709-1	Biotechnology Research Project
MGB225	Intercultural Communication and Negotiation Skills

Year 4, Semester 2

LSB709-2	Biotechnology Research Project
LSB709-3	Biotechnology Research Project
	Plus any TWO of the following three units:
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions
MGB309	Strategic Management

Part-time Course Structure - For students who commenced in 2009 - First Semester Entry

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

LSB258	Principles of Human Physiology
SCB122	Cell and Molecular Biology

Year 2, Semester 1

BSB115	Management
SCB111	Chemistry 1

Year 2, Semester 2

BSB126	Marketing
SCB121	Chemistry 2

Year 3, Semester 1

LQB383	Molecular and Cellular Regulation
LSB325	Biochemistry

Year 3, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics

Year 4, Semester 1

AMB240	Marketing Planning and Management
LQB386	Microbial Structure and Function

Year 4, Semester 2

LQB489	Plant Physiology and Cell Biology
MGB223	Entrepreneurship and Innovation

Year 5, Semester 1

LQB582	Biomedical Research Technologies
MGB324	Managing Business Growth

Year 5, Semester 2

BSB311	Innovation Commercialisation Strategies
LQB682	Protein Biochemistry and Bioengineering

Year 6, Semester 1

LQB583	Genetic Research Technology
LWS007	Introduction To Intellectual Property Law

Year 6, Semester 2

LQB686	Microbial Technology and Immunology
MGB200	Leading Organisations

Year 7, Semester 1

LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Year 7, Semester 2

	Select TWO units from the following:
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions
MGB309	Strategic Management

Year 8, Semester 1

LSB709-1	Biotechnology Research Project
MGB225	Intercultural Communication and Negotiation Skills

Year 8, Semester 2

LSB709-2	Biotechnology Research Project
LSB709-3	Biotechnology Research Project

Full-time Course Structure - For students who commenced in 2009 - Mid Year Entry

Year 1, Semester 2

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

BSB115	Management
LQB383	Molecular and Cellular Regulation
LSB325	Biochemistry
MAB101	Statistical Data Analysis 1

Year 2, Semester 2

LSB250	Human Physiology
LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
LQB489	Plant Physiology and Cell Biology

Year 3, Semester 1

BSB126	Marketing
LQB386	Microbial Structure and Function
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Year 3, Semester 2

AMB240	Marketing Planning and Management
LQB682	Protein Biochemistry and Bioengineering
MGB200	Leading Organisations
MGB223	Entrepreneurship and Innovation

Year 4, Semester 1

LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth

Year 4, Semester 2

BSB311	Innovation Commercialisation Strategies
LQB686	Microbial Technology and Immunology
	Plus any TWO of the following:
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions
MGB309	Strategic Management

Year 5, Semester 1

LSB709-1	Biotechnology Research Project
LSB709-2	Biotechnology Research Project
LSB709-3	Biotechnology Research Project
MGB225	Intercultural Communication and Negotiation Skills

Full-time Course Structure for students who commenced in 2008

FACULTY OF SCIENCE AND TECHNOLOGY

Year 1, Semester 1

BSB110	Accounting
MAB101	Statistical Data Analysis 1
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

BSB115	Management
LSB258	Principles of Human Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

BSB126	Marketing
LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function
LSB325	Biochemistry

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
LQB489	Plant Physiology and Cell Biology
MGB223	Entrepreneurship and Innovation

Year 3, Semester 1

LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth

Year 3, Semester 2

BSB311	Innovation Commercialisation Strategies
LQB682	Protein Biochemistry and Bioengineering
LQB686	Microbial Technology and Immunology
MGB200	Leading Organisations

Year 4, Semester 1

LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation
LSB709-1	Biotechnology Research Project
MGB225	Intercultural Communication and Negotiation Skills

Year 4, Semester 2

LSB709-2	Biotechnology Research Project
LSB709-3	Biotechnology Research Project
	Plus any TWO of the following units:
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions
MGB309	Strategic Management

Potential Careers:

Biotechnologist, Biotechnology Business/Investment Analyst, Business Development Officer, Cell Biologist, Commercialisation Officer, Medical Biotechnologist, Molecular Biologist, Plant Biotechnologist, Technology Transfer Officer.

Graduate Certificate in Biotechnology (LS66)

Year offered: 2011
Admissions: Yes
CRICOS code: 054278A
Course duration (full-time): 1 semester (0.5 year)
Course duration (part-time): 2 semesters (1 year)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,625 (indicative) per semester
Domestic Entry: July (Note: Students commencing in July, enrol in Semester 2 units first) (Students are NOT able to commence LS66 in February)
International Entry: July (Students are NOT able to commence LS66 in February)
Total credit points: 48
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Mark O'Brien
Campus: Gardens Point

Overview

The postgraduate coursework programs will suit anyone who has a recent
undergraduate degree (preferably, however not necessarily, in science) and who wishes to gain training and advanced specialisation in general, medical and/or plant biotechnology. The programs also cater for working scientists, support staff or students involved in commercial aspects of biotechnology, who wish to update their theoretical and practical biotechnology skills.

Science-based biotechnology units emphasising laboratory skills and hands-on laboratory experimentation feature prominently in the programs, which cover contemporary techniques in biotechnology. New technology is incorporated as it becomes available. The programs also offer students opportunities to pursue studies related to the business of biotechnology, marketing, commercialisation, as well as the legal and ethical aspects of biotechnological applications.

Career Outcomes

Career opportunities include employment as research and support staff in the biotechnology industry - private or public biotechnology companies, universities, CSIRO, research institutes, government departments, pathology laboratories and hospitals.

Entry Requirements

- A degree or equivalent, preferably but not necessarily in science.

  Advanced standing (credit) may be given for this course if the student has a degree or equivalent with recent and appropriate undergraduate-level knowledge and laboratory experience in the key areas of molecular biology, cell biology, biochemistry and/or microbiology at an advanced level.

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 in the cell and biomolecular sciences and areas of interest in biotechnology.

The Graduate Certificate in Biotechnology is a foundation program for people without a science degree or for those who do not have a recent background in the cell and biomolecular sciences. Fundamental aspects of cell and molecular biology, biochemistry and microbiology are covered in this first program. Successful completion of this program allows students to then specialise in more advanced aspects of biotechnology. The Graduate Certificate in Biotechnology also allows students to gain essential generic skills and attributes for successful postgraduate research and learning.

Students must commence in July and enrol in Semester 2 units first. Advanced standing (credit) may be given for this foundation program if the student has a degree or equivalent with recent and appropriate undergraduate-level knowledge and practical experience in the key areas of molecular biology, cell biology, biochemistry and/or microbiology at an advanced level. If advanced standing (credit) is granted and accepted students can enrol directly in any of the more advanced biotechnology programs in their first semester of study.

Professional Recognition

Graduates are eligible to join the AusBiotech, the Australian Society for Biochemistry and Molecular Biology, and the Australian Society for Microbiology.

Further information

For further information about this course, please contact:

Mark O'Brien
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure - Full-time

Year 1, Semester 2 (MODULE 1)	
LSN101	Molecular Biosciences
LSN102	Cellular Biosciences
LSN103	Postgraduate Learning and Research Skills
LSN483	Molecular Biology Techniques

Course structure - Part-time

Year 1, Semester 2 (MODULE 1)	
LSN101	Molecular Biosciences
LSN102	Cellular Biosciences

Year 2, Semester 2 (MODULE 1)	
LSN103	Postgraduate Learning and Research Skills

LSN483   Molecular Biology Techniques

Potential Careers:

Biochemist, Biotechnologist, Medical Biotechnologist, Microbiologist, Molecular Biologist, Plant Biotechnologist, Research Assistant, Scientist, Virologist.

Graduate Diploma in Biotechnology (LS76)

Year offered: 2011
Admissions: Yes
CRICOS code: 016975B
Course duration (full-time): 2 semesters (1 year)
Course duration (part-time): 4 semesters (2 years)
Domestic fees (indicative): 2011: Full fee tuition $9,750 (indicative) per semester
International Fees (indicative): 2011: $12,000 (indicative) per semester
Domestic Entry: July (Note: Students commencing in July, enrol in Semester 2 units first) *Also see "ENTRY REQUIREMENTS" below
International Entry: July (Note: Students commencing in July, enrol in Semester 2 units first) *Also see "ENTRY REQUIREMENTS" below
Total credit points: 96
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Mark O'Brien
Campus: Gardens Point

Overview

The postgraduate coursework programs will suit anyone who has a recent
undergraduate degree (preferably, however not necessarily, in science) and who wishes to gain training and advanced specialisation in general, medical and/or plant biotechnology. The programs also cater for working scientists, support staff or students involved in commercial aspects of biotechnology, who wish to update their theoretical and practical biotechnology skills.

Science-based biotechnology units emphasising laboratory skills and hands-on laboratory experimentation feature prominently in the programs, which cover contemporary techniques in biotechnology. New technology is incorporated as it becomes available. The programs also offer students opportunities to pursue studies related to the business of biotechnology, marketing, commercialisation, as well as the legal and ethical aspects of biotechnological applications.

Career Outcomes

Career opportunities include employment as research and support staff in the biotechnology industry—private or public biotechnology companies, universities, CSIRO, research institutes, government departments, pathology laboratories and hospitals.

Entry Requirements

A degree or equivalent, preferably but not necessarily in science.
Advanced standing (credit) may be given for the foundation program (LS66) if the student has a degree or equivalent with recent and appropriate undergraduate-level knowledge and laboratory experience in the key areas of molecular biology, cell biology, biochemistry and/or microbiology at an advanced level.

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 in the cell and biomolecular sciences and areas of interest in biotechnology.

The Graduate Diploma in Biotechnology builds upon foundation concepts
presented in the Graduate Certificate. The Graduate Diploma in Biotechnology offers students opportunities to pursue study in several relevant focus areas including the theoretical and practical aspects of biotechnology. It also covers the business of biotechnology, marketing, commercialisation, as well as the legal and ethical aspects of biotechnological applications.

Professional Recognition

Graduates are eligible to join the AusBiotech, the Australian Society for Biochemistry and Molecular Biology, and the Australian Society for Microbiology.

Further Information

For further Information about this course, please contact:

Dr Mark O'Brien
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure - Full-time

Year 1, Semester 2 (MODULE 1)	
LSN101	Molecular Biosciences
LSN102	Cellular Biosciences
LSN103	Postgraduate Learning and Research Skills
LSN483	Molecular Biology Techniques

Year 2, Semester 1 (MODULE 2)	
LSP127	Business Aspects of Biotechnology
	Either
LSN583	Genetic Research Technology
	Or
LSN585	Plant Genetic Manipulation
	In consultation with the course coordinator, choose 24 credit points from the following units:
LQB582	Biomedical Research Technologies
LSN583	Genetic Research Technology
LSN584	Medical Cell Biology
LSN585	Plant Genetic Manipulation
LWN135	Law, Justice and New Genetic Technologies

Course structure - Part-time

Year 1, Semester 2 (MODULE 1)	

LSN101   Molecular Biosciences

LSN102   Cellular Biosciences

Year 2, Semester 2 (MODULE 1)

LSN103   Postgraduate Learning and Research Skills

LSN483   Molecular Biology Techniques

Year 3, Semester 1 (MODULE 2)

LSP127   Business Aspects of Biotechnology

Either

LSN583   Genetic Research Technology

Or

LSN585   Plant Genetic Manipulation

Year 3, Semester 2 (MODULE 2)

In consultation with the course coordinator, choose 24 credit points from the following units

LQB681   Biochemical Research Skills

LQB682   Protein Biochemistry and Bioengineering

LSN103   Postgraduate Learning and Research Skills

MGN409   Introduction to Management

Potential Careers:

Biochemist, Biotechnologist, Medical Biotechnologist, Microbiologist, Molecular Biologist, Plant Biotechnologist, Research Assistant, Scientist, Virologist.

Master of Biotechnology (LS86)

Year offered: 2011
Admissions: Yes
CRICOS code: 018479B
Course duration (full-time): 3 semesters (1.5 years)
Course duration (part-time): 6 semesters (3 years)
Domestic fees (indicative): 2011: Full fee tuition $9,750 (indicative) per semester
International Fees (indicative): 2011: $12,000 (indicative) per semester
Domestic Entry: July (Note: Students commencing in July, enrol in Semester 2 units first) *Also see "ENTRY REQUIREMENTS" below
International Entry: July (Note: Students commencing in July, enrol in Semester 2 units first) *Also see "ENTRY REQUIREMENTS" below
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Mark O'Brien
Campus: Gardens Point

Overview

The postgraduate coursework programs in Biotechnology will suit anyone who has a recent undergraduate degree (preferably, however not necessarily, in science) and who wishes to gain training and advanced specialisation in general, medical and/or plant biotechnology. The programs also cater for working scientists, support staff or students involved in commercial aspects of biotechnology, who wish to update their theoretical and practical biotechnology skills. Science-based biotechnology units emphasising laboratory skills and hands-on laboratory experimentation feature prominently in the programs, which cover contemporary techniques in biotechnology. New technology is incorporated as it becomes available. The programs also offer students opportunities to pursue studies related to the business of biotechnology, marketing, commercialisation, as well as the legal and ethical aspects of biotechnological applications.

Entry Requirements

A bachelor degree or equivalent, preferably but not necessarily in science, is required. Please contact the course coordinator for further information on the entry requirements for this course.

LS86 commences in July (Module 1 entry). Students with advanced standing for Module 1 should commence in February as the Faculty does not offer sufficient units in Module 2 in second semester. Note especially that the February entry point for this course is for students with advanced standing for Module 1. It is not possible to commence Module 1 in February.

For students with advanced standing for Module 1 and who wish to enter LS86 in July, a modified program will be required and this should be discussed with the course coordinator prior to enrolment. Students should note that this may require them to study business electives only in their first semester and could lead to them having to take an additional semester to complete the requirements of their program.

Career Outcomes

Career opportunities include employment as research and support staff in the biotechnology industry - private or public biotechnology companies, universities, CSIRO, research institutes, government departments, pathology laboratories and hospitals.

Professional Recognition

Graduates are eligible to join the AusBiotech, the Australian Society for Biochemistry and Molecular Biology, and the Australian Society for Microbiology.

Course Design

The Master of Biotechnology is designed to give students further training and specialisation in general medical and/or plant biotechnology. This program follows successful completion of core and optional units offered in both the Graduate Certificate in Biotechnology and Graduate Diploma in Biotechnology.

Further Information

For further information about this course, please contact:

Dr Mark O'Brien
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure - Full-time

Year 1, Semester 2 (MODULE 1)	
LSN101	Molecular Biosciences
LSN102	Cellular Biosciences
LSN103	Postgraduate Learning and Research Skills
LSN483	Molecular Biology Techniques

Year 2, Semester 1 (MODULE 2)	
LSP127	Business Aspects of Biotechnology
	Either
LSN583	Genetic Research Technology
	Or
LSN585	Plant Genetic Manipulation
	In consultation with the course coordinator, choose 24 credit points from the following units:
LQB582	Biomedical Research Technologies
LSN583	Genetic Research Technology
LSN584	Medical Cell Biology
LSN585	Plant Genetic Manipulation
LWN135	Law, Justice and New Genetic Technologies

Year 2, Semester 2 (MODULE 3)	
BSB311	Innovation Commercialisation Strategies
	Either

LSN684	Medical Biotechnology 2
	Or
LQB685	Plant Microbe Interactions

In consultation with the course coordinator, choose 24 credit points from the following units:

LQB484	Introduction to Genomics and Bioinformatics
LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering
LQB685	Plant Microbe Interactions
LSN684	Medical Biotechnology 2
MGN409	Introduction to Management

Course structure - Part-time

Year 1, Semester 2 (MODULE 1)

| LSN101 | Molecular Biosciences |
| LSN102 | Cellular Biosciences |

Year 2, Semester 2 (MODULE 1)

| LSN103 | Postgraduate Learning and Research Skills |
| LSN483 | Molecular Biology Techniques |

Year 3, Semester 1 (MODULE 2)

LSP127	Business Aspects of Biotechnology
	Either
LSN583	Genetic Research Technology
	Or
LSN585	Plant Genetic Manipulation

Year 3, Semester 2 (MODULE 3)

In consultation with the course coordinator, choose 24 credit points from the following units:

LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering
LSN103	Postgraduate Learning and Research Skills
MGN409	Introduction to Management

Year 4, Semester 1 (MODULE 2)

In consultation with the course coordinator, choose 24 credit points from the following units:

LQB582	Biomedical Research Technologies
LSN583	Genetic Research Technology
LSN584	Medical Cell Biology
LSN585	Plant Genetic Manipulation
LWN135	Law, Justice and New Genetic Technologies

Year 4, Semester 2 (MODULE 3)

BSB311	Innovation Commercialisation Strategies
	Either
LQB685	Plant Microbe Interactions

| | Or |
| LSN684 | Medical Biotechnology 2 |

Potential Careers:

Biochemist, Biotechnologist, Medical Biotechnologist, Microbiologist, Molecular Biologist, Plant Biotechnologist, Research Assistant, Scientist, Virologist.

Master of Biotechnology (Advanced) (LS96)

Year offered: 2011
Admissions: Yes
CRICOS code: 054279M
Course duration (full-time): 4 semesters (2 years)
Course duration (part-time): 8 semesters (4 years)
Domestic fees (indicative): 2011: Full fee tuition $8,250 (indicative) per semester
International Fees (indicative): 2011: $11,875 (indicative) per semester
Domestic Entry: July (Note: Students commencing in July, enrol in Semester 2 units first) *Also see "ENTRY REQUIREMENTS" below
International Entry: July (Note: Students commencing in July, enrol in Semester 2 units first) *Also see "ENTRY REQUIREMENTS" below
Total credit points: 192
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Mark O'Brien
Campus: Gardens Point

Overview

The Master of Biotechnology (Advanced) program completes the comprehensive training of students and follows successful completion of core and optional units offered in the Graduate Certificate in Biotechnology, Graduate Diploma in Biotechnology and Master of Biotechnology programs. It encompasses general medical and/or plant biotechnology. In their final semester of the program, students may undertake a supervised research project either at QUT or external to QUT.

Part-time students may also elect to do a research project at their place of work, with both a workplace supervisor and a QUT supervisor. Students must discuss research project areas prior to enrolment in their final semester of study in LS96 to organise a suitable project and a project supervisor(s). While there is a wide range of research project areas available, it may not always be possible for students to conduct a research project exactly in the area they desire.

There is also no guarantee that either a suitable project and/or project supervisor(s) will be available in the semester that the student wishes to undertake the project unit.

Some students prefer not to undertake a research project in their final semester of study. For students not undertaking a research project, additional coursework must be completed. Students will need to consult with the course coordinator in selecting additional coursework units.

These postgraduate coursework programs will suit anyone who has a recent undergraduate degree (preferably, however not necessarily, in science) and who wishes to gain training and advanced specialisation in general, medical and/or plant biotechnology. The programs also cater for working scientists, support staff or students involved in commercial aspects of biotechnology who wish to update their theoretical and practical biotechnology skills.

Science-based biotechnology units emphasising laboratory skills and hands-on laboratory experimentation feature prominently in the programs, which cover contemporary techniques in biotechnology. New technology is incorporated as it becomes available. The programs also offer students opportunities to pursue studies related to the business of biotechnology, marketing and commercialisation, as well as the legal and ethical aspects of biotechnological applications.

Entry Requirements

A degree or equivalent, preferably but not necessarily in science.

Advanced standing (credit) may be given for the foundation program (LS66) if the student has a degree or equivalent with recent and appropriate undergraduate-level knowledge and laboratory experience in the key areas of molecular biology, cell biology, biochemistry and/or microbiology at an advanced level.

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 in the cell and biomolecular sciences and areas of interest in biotechnology.

The Graduate Certificate in Biotechnology is a foundation program for people without a science degree or for those who do not have a recent background in the cell and biomolecular sciences. Fundamental aspects of cell and molecular biology, biochemistry and microbiology are covered in this first program. Successful completion of this program allows students to then specialise in more advanced aspects of biotechnology. The Graduate Certificate in Biotechnology also allows students to gain essential generic skills and attributes for successful postgraduate research and learning.

Students must commence in July and enrol in Semester 2 units first. Advanced standing (credit) may be given for this foundation program if the student has a degree or equivalent with recent and appropriate undergraduate-level knowledge and practical experience in the key areas of molecular biology, cell biology, biochemistry and/or microbiology at an advanced level. If advanced standing (credit) is granted and accepted, students can enrol directly in any of the more advanced biotechnology programs in their first semester of study.

The Graduate Diploma in Biotechnology builds upon foundation concepts presented in the Graduate Certificate. The Graduate Diploma in Biotechnology offers students opportunities to pursue study in several relevant focus areas including the theoretical and practical aspects of biotechnology. It also covers the business of biotechnology, marketing and commercialisation, as well as the legal and ethical aspects of biotechnological applications.

The Master of Biotechnology is designed to give students further training and specialisation in general medical and/or plant biotechnology. This program follows successful completion of core and optional units offered in both the Graduate Certificate in Biotechnology and Graduate Diploma in Biotechnology.

Professional Recognition

Graduates are eligible to join the AusBiotech, the Australian Society for Biochemistry and Molecular Biology, and the Australian Society for Microbiology.

Career Outcomes

Career opportunities include employment as research and support staff in the biotechnology industry—private or public biotechnology companies, universities, CSIRO, research institutes, government departments, pathology laboratories and hospitals.

Further Information

For further information about this course, please contact:

Dr Mark O'Brien
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure - Full-time

Year 1, Semester 2 (MODULE 1)	
LSN101	Molecular Biosciences
LSN102	Cellular Biosciences
LSN103	Postgraduate Learning and Research Skills
LSN483	Molecular Biology Techniques

Year 2, Semester 1 (MODULE 2)	
LSP127	Business Aspects of Biotechnology
	Either
LSN583	Genetic Research Technology
	Or
LSN585	Plant Genetic Manipulation
	In consultation with the course coordinator, choose 24 credit points from the following units:
LQB582	Biomedical Research Technologies
LSN583	Genetic Research Technology
LSN584	Medical Cell Biology
LSN585	Plant Genetic Manipulation
LWN135	Law, Justice and New Genetic Technologies
AMN442	Marketing Management

Year 2, Semester 2 (MODULE 3)	
BSB311	Innovation Commercialisation Strategies
	Either
LQB685	Plant Microbe Interactions
	Or
LSN684	Medical Biotechnology 2
	In consultation with the course coordinator, choose 24 credit points from the following units:
LQB484	Introduction to Genomics and Bioinformatics
LQB681	Biochemical Research Skills

LQB682	Protein Biochemistry and Bioengineering
LQB685	Plant Microbe Interactions
LSN684	Medical Biotechnology 2
MGN409	Introduction to Management

Year 3, Semester 1 (MODULE 4)	
LSN710	Project
	For those students NOT undertaking LSN710 Project, in consultation with the course coordinator, choose 48 credit points from the following units:
LQB582	Biomedical Research Technologies
LSN583	Genetic Research Technology
LSN584	Medical Cell Biology
LSN585	Plant Genetic Manipulation
LWN135	Law, Justice and New Genetic Technologies

Course structure - Part-time

Year 1, Semester 2 (MODULE 1)	
LSN101	Molecular Biosciences
LSN102	Cellular Biosciences

Year 2, Semester 2 (MODULE 1)	
LSN103	Postgraduate Learning and Research Skills
LSN483	Molecular Biology Techniques

Year 3, Semester 1 (MODULE 2)	
LSN583	Genetic Research Technology
	Either
LSN585	Plant Genetic Manipulation
	Or
LSP127	Business Aspects of Biotechnology

Year 3, Semester 2 (MODULE 3)	
	In consultation with the course coordinator, choose 24 credit points from the following units:
LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering
LSN103	Postgraduate Learning and Research Skills
MGN409	Introduction to Management

Year 4, Semester 1 (MODULE 2)	
	In consultation with the course coordinator, choose 24 credit points from the following units:
LQB582	Biomedical Research Technologies
LSN583	Genetic Research Technology
LSN584	Medical Cell Biology
LSN585	Plant Genetic Manipulation
AMN442	Marketing Management
LWN135	Law, Justice and New Genetic Technologies

Year 4, Semester 2 (MODULE 3)

BSB311	Innovation Commercialisation Strategies
	Either
LQB685	Plant Microbe Interactions
	Or
LSN684	Medical Biotechnology 2

Year 5, Semester 1 (MODULE 4)

| LSN711 | Project 1 |

For those students NOT undertaking LSN712 Project 2, in consultation with the course coordinator, choose 48 credit points from the following units:

LQB582	Biomedical Research Technologies
LSN583	Genetic Research Technology
LSN584	Medical Cell Biology
LSN585	Plant Genetic Manipulation
LWN135	Law, Justice and New Genetic Technologies

Year 5, Semester 2 (MODULE 4)

| LSN712 | Project 2 |

For those students NOT undertaking LSN711 Project 1, in consultation with the course coordinator, choose 24 credit points from the following units:

LQB484	Introduction to Genomics and Bioinformatics
LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering
LQB685	Plant Microbe Interactions
LSN684	Medical Biotechnology 2
MGN409	Introduction to Management

Potential Careers:

Biochemist, Biotechnologist, Medical Biotechnologist, Microbiologist, Molecular Biologist, Plant Biotechnologist, Research Assistant, Scientist, Virologist.

Bachelor of Mathematics (MA54)

Year offered: 2011
Admissions: Yes
CRICOS code: 049433D
Course duration (full-time): 3 Years
Course duration (part-time): 6 Years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $11,375 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
QTAC code: 418701
Past rank cut-off: 81
Past OP cut-off: 10
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 288
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Glenn Fulford
Discipline coordinator: Dr Dann Mallet
Campus: Gardens Point

Overview

Mathematical sciences provide powerful tools for analysis of today's complex world and give an insight into many real-world problems of significant importance. Mathematics and statistics graduates use their analytical and problem-solving skills in a vast array of roles and settings.

Mathematicians and statisticians can develop new financial products in the banking industry, optimise transportation schedules in today's busy world, or help understand customer value in the commercial world. Mathematicians can aid scientific research by data mining to discover genetic links and pathways or help to understand disease transmission of a pandemic. Computer simulation and visualisation techniques can be used in many research projects including bone fracture and wound healing, and modelling saltwater intrusion in coastal systems. Mathematics graduates play integral roles in the workplace, where they develop mathematical models and numerical algorithms to answer what-if scenarios,and design experiments to help guide research and improve processes.

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.

Career Outcomes

As a mathematics graduate you will find employment opportunities across a wide range of areas, such as finance, investment, information technology, environmental management, health, marketing, logistics, defence, media, 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. Development of skills in communication, problem solving, critical thinking and teamwork form an integral part of the course.

Professional Recognition

On graduation you will be eligible to join the Australian Mathematical Society, the Statistical Society of Australia and the Australian Society for Operations Research.

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.

Recommended Study

Maths C is recommended.

Mathematics Bursaries

Students enrolled in this course can apply for industry-sponsored bursaries. These bursaries are awarded to Australian citizens or permanent residents on a competitive basis. Applications should be submitted by 1 December of the year preceding entry to the course. For further information see the Mathematical Bursaries Page.

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 on deferment.

Further Information

For further information about this course, please contact:

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

Course structure - Bachelor of Mathematics

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

Level 1 Mathematics Units

Students must complete the following Level 1 Mathematics units:

MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1

Note: MAB120 is for students who do not have an exit assessment of at least Sound Achievement in four semesters of both Senior Mathematics B and Senior Mathematics C. Students with at least Sound Achievement in both Mathematics B and C (or equivalent) may select a level 2 Mathematics unit instead of MAB120.

Level 2 and 3 Mathematics Units

At least 120 credit points (10 twelve credit point units) must be taken from Level 2 and Level 3 Mathematics units with at least 48 credit points (4 twelve credit point units) from Level 3 mathematics units

Students must complete:

MAB311	Advanced Calculus

MAB312	Linear Algebra

Other Units - Complementary Studies

Up to a maximum of 96 credit points may be taken as electives with not more than 48 credit points from first level units.

Suggested Program for February Entry

STUDENTS WITH AN EXIT ASSESSMENT OF AT LEAST SOUND ACHIEVEMENT IN BOTH SENIOR MATHEMATICS B AND SENIOR MATHEMATICS C (OR EQUIVALENT)

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
	ONE additional unit from:
BSB110	Accounting
MAB220	Computational Mathematics 1
SCB110	Science Concepts and Global Systems
	Other first level unit (see below and later in document for other suggestions)

Year 1, Semester 2

MAB210	Statistical Modelling 1
	THREE additional units from:
MAB220	Computational Mathematics 1
MAB281	Mathematics for Computer Graphics
MAB313	Mathematics of Finance
MAB422	Mathematical Modelling
MAB480	Introduction to Scientific Computation
BSB113	Economics
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Other first level elective units (see later in document for other suggestions)

PLEASE NOTE: MAB220 is a compulsory unit. In this instance, it appears as optional in either semester 1 or 2.

Year 2, Semester 1

MAB311	Advanced Calculus
MAB312	Linear Algebra
	TWO additional units from mathematics units or elective units

Year 2, Semester 2

FOUR units from mathematics units or elective units (see course structure)

Year 3, Semester 1

> FOUR units from mathematics units or elective units (see course structure)

Year 3, Semester 2

> FOUR units from mathematics units or elective units (see course structure)

> STUDENTS WITH AN EXIT ASSESSMENT OF AT LEAST SOUND ACHIEVEMENT IN SENIOR MATHEMATICS B ONLY (OR EQUIVALENT)

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus

> TWO additional units from:

BSB110	Accounting
BSB113	Economics
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

> Other first level elective unit (see later in document for other suggestions)

Year 1, Semester 2

MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1

Year 2, Semester 1

MAB311	Advanced Calculus
MAB312	Linear Algebra

> TWO additional units from mathematics units or elective units

Year 2, Semester 2

> FOUR units from mathematics units or elective units (see course structure)

Year 3, Semester 1

> FOUR units from mathematics units or elective units (see course structure)

Year 3, Semester 2

> FOUR units from mathematics units or elective units (see course structure)

Mathematics Units

Mathematics Units

> Students should not enrol in Mathematics units other than those listed below:

Level 1 Mathematics Units

MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1

Level 2 Mathematics Units

MAB311	Advanced Calculus
MAB312	Linear Algebra
MAB313	Mathematics of Finance
MAB314	Statistical Modelling 2
MAB315	Operations Research 2
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB420	Computational Mathematics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation

Level 3 Mathematics Units

MAB521	Applied Mathematics 3
MAB522	Computational Mathematics 3
MAB524	Statistical Inference
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB536	Time Series Analysis
MAB613	Partial Differential Equations
MAB623	Financial Mathematics
MAB624	Applied Statistics 3
MAB625	Operations Research 3B
MAB640	Industry Project
MAB672	Advanced Mathematical Modelling
MAB681	Advanced Visualisation and Data Analysis (Future offering expected after 2011.)

Other Units

> Up to a maximum of 96 credit points (8 twelve credit point units) can be taken from other units, with not more than 48 credit points (4 twelve credit point units) from first level units. A first level unit is classified as a unit that is normally taken in the first year of a single degree.

> OTHER UNIT - FIRST LEVEL: This unit can only be taken in MA54 after recommendation from the Course Coordinator. This unit cannot be included in the minimum of 16 mathematics units required for the course.

MAB105	Preparatory Mathematics

> OTHER UNIT - ADVANCED LEVEL: This unit cannot be included in the minimum of 16 mathematics units required for the course, but can be counted as an elective.

MAB281   Mathematics for Computer Graphics

Potential Careers:

Actuary, Computer Game Programmer, Market Research
Manager, Mathematician, Quantitative Analyst, Statistician.

Bachelor of Mathematics & Bachelor of Applied Science (Honours) - Dean's Scholars Honours Program (MA54 + SC60)

Year offered: 2011
Admissions: Yes
Course duration (full-time): 4 years - with optional acceleration to 3 or 3½ years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
Domestic Entry: February: Fixed Closing Date- 26 November 2010.
International Entry: International Students: Course commences in February - (This course is only available to international students completing Year 12 in Australia)
QTAC code: 418042
Past rank cut-off: 98 plus questionnaire and possible interview. Please refer to Additional Entry Requirements.
Past OP cut-off: 2 plus questionnaire and possible interview. Please refer to Additional Entry Requirements.
Assumed knowledge: English (4, SA) and Maths B (4, VHA) plus two (2) of Biological Science, Chemistry, Earth Science, Maths C or Physics (4, VHA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384 (BMaths 288 cp and BAppSc(Hons) 96cp)
Standard credit points per full-time semester: 48
Course coordinator: Mr Richard Thomas
Discipline coordinator: A/Prof Dann Mallet
Campus: Gardens Point

Additional Entry Requirements

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

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

Overview

The Dean's Scholars Program in Mathematics offers an enriched course of study, with an early introduction to mathematical research, for students who obtain outstanding levels of academic achievement at Secondary School. At the same time it provides the option of an accelerated pathway by which these students are able to complete the Bachelor of Mathematics course plus the Bachelor of Applied Science (Honours) course in a total of just three years.

Mathematics Dean's scholars are able to undertake research enrichment units and individually-tailored tutorial programs:

- an individually–tailored tutorial program under the guidance of an academic mentor (SCB303 *Tutorial Program for Dean's Scholars*); and

- a research component that is individually tailored to the student's interests, in which research skills are developed and a small research project supervised by a research mentor is completed in the final year (SCB401 *Research Methods for Dean's Scholars* and SCB501 *Research Project for Dean's Scholars*).

Professional Recognition

As a graduate of the Bachelor of Mathematics and Bachelor of Applied Science Dean's Scholars Honours Program you will qualify for professional membership of the Australian Mathematical Society (AMS), the Statistical Society of Australia (SSA) and the Australian Society for Operations Research (ASOR). It is expected that many Dean's Scholars will proceed to Doctor of Philosophy studies.

Who should apply

The program is open to applicants currently undertaking Year 12 studies at a secondary school, and who achieve an OP 1 or 2 (or interstate equivalent). Applicants must be outstanding current, or returning from a gap year, Year 12 students who completed their Year 12 education in Australia.

Career Outcomes

As a graduate of the Bachelor of Mathematics and Bachelor of Applied Science Dean's Scholars Honours Program you will find employment opportunities across a wide range of areas, such as finance, investment, information technology, environmental management, health, marketing, logistics, defence, medic, 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. Development of skills in communication, problem solving, critical thinking and teamwork form an integral part of the course.

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.

Non-Accelerated Course Structure – 4 Years

Year 1, Semester 1 (48 cp)	
	Normal BMaths and BAppSc(Hons) units: BMaths Coursework (48 cp)

Year 1, Semester 2 (48 cp)	
	Dean's Scholars Program enrichment unit:
SCB303	Tutorial Program for Dean's Scholars
	Normal BMaths and BAppSc(Hons) units: BMaths Coursework (36 cp)

Year 2, Semester 1 (48 cp)	
	Dean's Scholars Program enrichment unit:

SCB401   Research Methods for Dean's Scholars

Or other approved unit

Normal BMaths and BAppSc(Hons) units:
BMaths Coursework (36 cp)

Year 2, Semester 2 (48 cp)

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

Year 3, Semester 1 (48 cp)

Dean's Scholars Program enrichment unit:

SCB501-1 Research Project for Dean's Scholars

Normal BMaths and BAppSc(Hons) units:
BAppSc Coursework (36 cp)

Year 3, Semester 2 (48 cp)

Dean's Scholars Program enrichment unit:

SCB501-2 Research Project for Dean's Scholars

Normal BMaths and BAppSc(Hons) units:
BMaths Coursework (36 cp)

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

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

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

Notes:

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

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

Accelerated Course Structure – 3 Years

Year 1, Semester 1 (60 cp)

Dean's Scholars Program enrichment unit:

SCB303   Tutorial Program for Dean's Scholars

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

Year 1, Semester 2 (60 cp)

Dean's Scholars Program enrichment unit:

SCB401   Research Methods for Dean's Scholars

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

Year 1/2, Summer Semester (24 cp)

Dean's Scholars Program enrichment unit:

SCB301   Science for Dean's Scholars

Year 2, Semester 1 (60 cp)

Dean's Scholars Program enrichment unit:

SCB501-1 Research Project for Dean's Scholars

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

Year 2, Semester 2 (60 cp)

Dean's Scholars Program enrichment unit:

SCB501-2 Research Project for Dean's Scholars

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

Year 3, Semester 1 (60 cp) and Semester 2 (60 cp)

Normal BMaths and BAppSc(Hons) units:
BMaths + BAppSc(Hons) Coursework/Research (24cp + 36 cp respectively)

Normal BMaths and BAppSc(Hons) units:
BAppSc(Hons) Coursework/Research (60 cp)

Note:

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

Potential Careers:

Actuary, Computer Game Programmer, Market Research Manager, Mathematician, Quantitative Analyst, Statistician.

Graduate Certificate in Mathematical Science (MA65)

Year offered: 2011
Admissions: Yes
CRICOS code: 046044G
Course duration (full-time): 1 semester (0.5 year)
Course duration (part-time): 2 semesters (1 year)
Domestic fees (indicative): 2011: Full fee tuition $7,500 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February, July or Summer Program
International Entry: February and July
Total credit points: 48
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Troy Farrell
Discipline coordinator: Dr Troy Farrell (Course Coordinator), Dr James McGree (Assistant Course Coordinator)
Campus: Gardens Point

Overview

These courses enable graduates from any discipline to develop their knowledge and skills in one or more areas of the mathematical sciences. Strands available include mathematical modelling/applied mathematics, computational mathematics, statistics/ statistical modelling, quantitative analysis/financial mathematics and operations research.

These courses recognise that students may not have studied mathematics for some time.

Career Outcomes

Knowledge and skills in mathematics and/or statistical techniques are increasingly in demand in many different areas, for example, quantitative analysis in the finance area; statistical and mathematical modelling in natural resources and health management; operations research in transport management and mathematics teaching.

Entry Requirements

To be eligible for admission an applicant:

-   will normally have completed an undergraduate degree in any discipline. Please note that students without prior studies in calculus (first-year level) may need to complete additional units prior to commencing the Master of Mathematical Science.

    Applicants who do not meet the normal entry requirements may be permitted to enrol in the Graduate Certificate subject to approval.

Course Design

The program of study for an individual student will be decided in consultation with the course coordinator and will take into account the student's background and area of interest within the mathematical sciences.

In the Graduate Certificate, at least 36 credit points must be taken from postgraduate mathematics units and up to 12 credit points can be taken from units other than mathematics units.

Further Information

For further information about this course, please contact:

Troy Farrell (Course Coordinator)or James McGree (Assistant Course Coordinator)
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

- Total credit points: 48

- At least 36 credit points must be taken from postgraduate mathematics units.

- Up to 12 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
MAN105	Preparatory Mathematics
MAN120	Algebra and Calculus
MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN200	Mathematical Foundations
MAN201	Mathematics
MAN210	Statistical Modelling 1
MAN220	Computational Mathematics 1
MAN281	Mathematics for Computer Graphics
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN313	Mathematics of Finance
MAN314	Statistical Modelling 2
MAN315	Operations Research 2
MAN413	Differential Equations
MAN414	Applied Statistics 2
MAN420	Computational Mathematics 2
MAN422	Mathematical Modelling
MAN461	Discrete Mathematics
MAN480	Introduction to Scientific Computation
MAN521	Applied Mathematics 3
MAN522	Computational Mathematics 3
MAN524	Statistical Inference
MAN525	Operations Research 3A

MAN533	Statistical Techniques
MAN536	Time Series Analysis
MAN613	Partial Differential Equations
MAN623	Financial Mathematics
MAN624	Applied Statistics 3
MAN625	Operations Research 3B
MAN672	Advanced Mathematical Modelling
MAN700	Project
MAN717	Minor Project
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis
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

Potential Careers:

Actuary, Mathematician, Quantitative Analyst, Statistician.

Graduate Diploma in Mathematical Science (MA75)

Year offered: 2011
Admissions: Yes
CRICOS code: 046041M
Course duration (full-time): 2 semesters (1 year)
Course duration (part-time): 4 semesters (2 years)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,125 (indicative) per semester
Domestic Entry: February, July or Summer Program
International Entry: February and July
Total credit points: 96
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Troy Farrell
Discipline coordinator: Dr Troy Farrell (Course Coordinator), Dr James McGree (Assistant Course Coordinator)
Campus: Gardens Point

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.

Career Outcomes

Knowledge and skills in mathematics and/or statistical techniques are increasingly in demand in many different areas, for example, quantitative analysis in the finance area; statistical and mathematical modelling in natural resources and health management; operations research in transport management, and mathematics teaching.

Entry Requirements

To be eligible for admission an applicant:

-   will normally have completed an undergraduate degree in any discipline. Please note that students without prior studies in calculus (first-year level) may need to complete additional units prior to commencing the Master of Mathematical Science.

    Applicants who do not meet the normal entry requirements may be permitted to enrol in the Graduate Certificate subject to approval.

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.

Prior to Enrolment

Potential applicants for this course are advised to contact the Course Coordinator prior to submitting their application to discuss their plans. International students in particular, should be aware that full-time enrolment of at least 36 credit points per semester may not be possible. This is due to the need to meet unit prerequisites. Units are not offered externally although units do have varying amounts of on-line material available. Lectures, tutorials and computer-based practicals may be timetabled during the day or early evening.

Further Information

For further information about this course, please contact:

Troy Farrell (Course Coordinator) or James McGree (Assistant Course Coordinator)
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

MA75 Course structure

- 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	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN200	Mathematical Foundations
MAN201	Mathematics
MAN210	Statistical Modelling 1
MAN220	Computational Mathematics 1
MAN281	Mathematics for Computer Graphics
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN313	Mathematics of Finance
MAN314	Statistical Modelling 2
MAN315	Operations Research 2
MAN413	Differential Equations
MAN414	Applied Statistics 2
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
MAN613	Partial Differential Equations
MAN623	Financial Mathematics
MAN624	Applied Statistics 3
MAN625	Operations Research 3B
MAN672	Advanced Mathematical Modelling
MAN700	Project
MAN717	Minor Project
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis
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
MAN787-1	Project
MAN787-2	Project
MAN787-3	Project

Course structure Note

If you wish to take any of the project units you will need to discuss your plans and the proposed content with the Course Coordinator.

Strand Information

The following strand information is to assist you with unit selection. You do not have to enrol in all units listed for a strand. The prerequisite units are given to guide you. Depending on your background, you may have already covered some of the units listed (or equivalent units) in your undergraduate studies. If you have not studied any mathematics for some time, you may need to undertake one or two units prior to commencing those listed in the strand information.

Mathematical Modelling/Applied Mathematics

	Advanced Postgraduate Mathematics Units:
MAN521	Applied Mathematics 3
MAN613	Partial Differential Equations
MAN672	Advanced Mathematical Modelling
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN774	Perturbation Methods
MAN777	Mathematics of Fluid Flow
	Prerequisite Units:
MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN220	Computational Mathematics 1
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN413	Differential Equations
MAN422	Mathematical Modelling

Computational Mathematics

	Advanced Postgraduate Mathematics Units:
MAN521	Applied Mathematics 3
MAN522	Computational Mathematics 3
MAN771	Computational Mathematics 4
	Prerequisite Units:
MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN220	Computational Mathematics 1
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN420	Computational Mathematics 2
MAN480	Introduction to Scientific Computation

Operations Research

	Advanced Postgraduate Mathematics Units:
MAN525	Operations Research 3A
MAN625	Operations Research 3B
MAN768	Advanced Techniques in Operations Research
	Prerequisite Units:
MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN210	Statistical Modelling 1
MAN315	Operations Research 2

Statistics/Statistical Modelling

	Advanced Postgraduate Mathematics Units:
MAN524	Statistical Inference
MAN533	Statistical Techniques
MAN536	Time Series Analysis
MAN624	Applied Statistics 3
MAN765	Bayesian Data Analysis

MAN766	Applied Time Series Analysis
MAN775	Statistical Modelling of Financial Processes
	Prerequisite Units:
MAN101	Statistical Data Analysis 1
MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN210	Statistical Modelling 1
MAN314	Statistical Modelling 2
MAN414	Applied Statistics 2

Quantitative Analysis/Financial Mathematics

	Advanced Postgraduate Mathematics Units:
MAN524	Statistical Inference
MAN533	Statistical Techniques
MAN536	Time Series Analysis
MAN623	Financial Mathematics
MAN624	Applied Statistics 3
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis
MAN769	Mathematics of Finance
MAN775	Statistical Modelling of Financial Processes
	Prerequisite Units:
MAN101	Statistical Data Analysis 1
MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN210	Statistical Modelling 1
MAN313	Mathematics of Finance
MAN314	Statistical Modelling 2
MAN413	Differential Equations
MAN414	Applied Statistics 2

Other Units:

MAN281	Mathematics for Computer Graphics
MAN461	Discrete Mathematics
MAN778	Applications of Discrete Mathematics

Mathematics for Secondary Teaching

Students interested in teaching would usually select across a range of areas of mathematics and statistics, but must take at least 24 credit points from advanced postgraduate mathematics units.

Students could select up to 24 credit points from units offered by the Faculty of Education related to the teaching of mathematics.

Potential Careers:

Actuary, Mathematician, Quantitative Analyst, Statistician.

Master of Mathematical Science (MA85)

Year offered: 2011
Admissions: Yes
CRICOS code: 046042K
Course duration (full-time): 3 semesters (1.5 years)
Course duration (part-time): 6 semesters (3 years)
Domestic fees (indicative): 2011: Full fee tuition $7,625 (indicative) per semester
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: February, July or Summer Program
International Entry: February and July
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Mr James McGree
Discipline coordinator: Dr Troy Farrell (Course Coordinator), Dr James McGree (Assistant Course Coordinator)
Campus: Gardens Point

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.

Career Outcomes

Knowledge and skills in mathematics and/or statistical techniques are increasingly in demand in many different areas, for example, quantitative analysis in the finance area; statistical and mathematical modelling in natural resources and health management; operations research in transport management, and mathematics teaching.

Entry Requirements

To be eligible for admission an applicant:

- will normally have completed an undergraduate degree in any discipline. Please note that students without prior studies in calculus (first-year level) may need to complete additional units prior to commencing the Master of Mathematical Science.

  Applicants who do not meet the normal entry requirements may be permitted to enrol in the Graduate Certificate subject to approval.

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.

Prior to Enrolment

Potential applicants for this course are advised to contact the Course Coordinator prior to submitting their application to discuss their plans. International students in particular, should be aware that full-time enrolment of at least 36 credit points per semester may not be possible. This is due to the need to meet unit prerequisites. Units are not offered externally although units do have varying amounts of on-line material available. Lectures, tutorials and computer-based practicals may be timetabled during the day or early evening.

Further Information

For further information about this course, please contact:

Troy Farrell (Course Coordinator) or James McGree (Assistant Course Coordinator)
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

MA85 Course structure

- 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	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN200	Mathematical Foundations
MAN201	Mathematics
MAN210	Statistical Modelling 1
MAN220	Computational Mathematics 1
MAN281	Mathematics for Computer Graphics
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN313	Mathematics of Finance
MAN314	Statistical Modelling 2
MAN315	Operations Research 2
MAN413	Differential Equations
MAN414	Applied Statistics 2
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
MAN613	Partial Differential Equations
MAN623	Financial Mathematics
MAN624	Applied Statistics 3
MAN625	Operations Research 3B
MAN672	Advanced Mathematical Modelling
MAN700	Project
MAN717	Minor Project
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis
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
MAN787-1	Project
MAN787-2	Project
MAN787-3	Project

Course structure Note

If you wish to take any of the project units you will need to discuss your plans and the proposed content with the Course Coordinator.

Strand Information

The following strand information is to assist you with unit selection. You do not have to enrol in all units listed for a strand. The prerequisite units are given to guide you. Depending on your background, you may have already covered some of the units listed (or equivalent units) in your undergraduate studies. If you have not studied any mathematics for some time, you may need to undertake one or two units prior to commencing those listed in the strand information.

Mathematical Modelling/Applied Mathematics

Advanced Postgraduate Mathematics Units:

MAN521	Applied Mathematics 3
MAN613	Partial Differential Equations
MAN672	Advanced Mathematical Modelling
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN774	Perturbation Methods
MAN777	Mathematics of Fluid Flow

Prerequisite Units:

MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN220	Computational Mathematics 1
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN413	Differential Equations
MAN422	Mathematical Modelling

Computational Mathematics

Advanced Postgraduate Mathematics Units:

MAN521	Applied Mathematics 3
MAN522	Computational Mathematics 3
MAN771	Computational Mathematics 4

Prerequisite Units:

MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN220	Computational Mathematics 1
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN420	Computational Mathematics 2
MAN480	Introduction to Scientific Computation

Operations Research

Advanced Postgraduate Mathematics Units:

MAN525	Operations Research 3A
MAN625	Operations Research 3B
MAN768	Advanced Techniques in Operations Research

Prerequisite Units:

MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN210	Statistical Modelling 1
MAN315	Operations Research 2

Statistics/Statistical Modelling

Advanced Postgraduate Mathematics Units:

MAN524	Statistical Inference
MAN533	Statistical Techniques
MAN536	Time Series Analysis
MAN624	Applied Statistics 3
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis

MAN775   Statistical Modelling of Financial Processes

Prerequisite Units:

MAN101   Statistical Data Analysis 1

MAN121   Calculus and Differential Equations

MAN122   Algebra and Analytic Geometry

MAN210   Statistical Modelling 1

MAN314   Statistical Modelling 2

MAN414   Applied Statistics 2

Quantitative Analysis/Financial Mathematics

Advanced Postgraduate Mathematics Units:

MAN524   Statistical Inference

MAN533   Statistical Techniques

MAN536   Time Series Analysis

MAN623   Financial Mathematics

MAN624   Applied Statistics 3

MAN765   Bayesian Data Analysis

MAN766   Applied Time Series Analysis

MAN769   Mathematics of Finance

MAN775   Statistical Modelling of Financial Processes

Prerequisite Units:

MAN101   Statistical Data Analysis 1

MAN121   Calculus and Differential Equations

MAN122   Algebra and Analytic Geometry

MAN210   Statistical Modelling 1

MAN313   Mathematics of Finance

MAN314   Statistical Modelling 2

MAN413   Differential Equations

MAN414   Applied Statistics 2

Other Units:

MAN281   Mathematics for Computer Graphics

MAN461   Discrete Mathematics

MAN778   Applications of Discrete Mathematics

Mathematics for Secondary Teaching

Students interested in teaching would usually select across a range of areas of mathematics and statistics, but must take at least 36 credit points from advanced postgraduate mathematics units.

Students can select up to 24 credit points from units offered by the Faculty of Education related to the teaching of mathematics.

Potential Careers:

Actuary, Mathematician, Quantitative Analyst, Statistician.

Bachelor of Applied Science - Medical Radiation Technology (Medical Imaging Technology) (PH38)

Year offered: 2011
Admissions: No
CRICOS code: 037588F
Course duration (full-time): 3 Years
Domestic fees (indicative): 2011: CSP $3,878 (indicative) per semester
International Fees (indicative): 2011: $11,250 (indicative) per semester
Domestic Entry: February. For 2011 entry, please refer to ST30 Bachelor of Medical Imaging Science
International Entry: February - IELTS of 7.0 with no sub-score less than 7.0, or its equivalent Occupational English Test
QTAC code: 418182
Past rank cut-off: 96
Past OP cut-off: 3
Assumed knowledge: English (4, SA), Maths B (4, SA) and Physics (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 288
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Pam Rowntree
Discipline coordinator: Mrs Debbie Starkey
Campus: Gardens Point

Overview

QUT is currently the only university in Queensland to offer a medical imaging technology undergraduate qualification. This course leads to employment as a medical imaging technologist or diagnostic radiographer, a rewarding profession with excellent employment prospects. Radiographers play an important role in the health-care sector, providing vital information to assist with the diagnosis and treatment of medical disorders.

Why Choose this Course

Excellent employment prospects can be expected as QUT works closely with the health sector to ensure that the number of graduates is in line with demand. In recent years, more than 95 per cent of graduates gained full-time employment within four months of graduation. This course is designed in consultation with clinical staff from radiology departments, so you will gain advanced knowledge of new diagnostic techniques and equipment used in the workplace. QUT's well-equipped X-ray laboratories allow you to graduate with experience using equipment and techniques similar to those used in industry.
Clinical placements in hospitals and private practices provide an opportunity to use your skills in a real workplace.

Career Outcomes

As a radiographer you will play a key role in patient care by providing referring medical practitioners with additional diagnostic information to assist in patient management and treatment. You may become a team member in a radiology department in a hospital, private radiology practice or health department, or you may be employed in medical equipment sales.

Professional Recognition

On graduation, you will be eligible for provisional accreditation by the Australian Institute of Radiography. Full accreditation requires the completion of an additional professional development year of clinical experience.

English Language Skills Applicable to health practitioners applying for registration)
All applicants must be able to demonstrate English language skills at IELTS academic level 7 or equivalent. Test results from examinations will generally need to be obtained within two years prior to applying for registration.

Other Course Requirements

You are required to undertake clinical experience in hospital departments and private practices during the course and, as a result, will have direct patient contact during the clinical placement, and may be exposed to blood and body fluids of patients. You must be vaccinated for Hepatitis B and must provide a postvaccination
pathological report or similar certification showing proof of immunity
prior to undertaking the first clinical placement.

Cardiopulmonary resuscitation (CPR) certification is also required to undertake clinical placements. In addition, you must satisfy criteria related to health status. You should declare height, physical disabilities, treatment of nervous condition, any drug/alcohol disorder, and a current immunisation status (specifically Hepatitis B) as part of the online enrolment process.

A current Blue Card authorised with QUT may be required prior to commencing the clinical placement components of this course. For more
information visit www.bluecard.qut.edu.au, and ensure that you allow adequate time for processing your application and issuing of the card in order to avoid clinical experience delays.

Your Course
Year 1
You will develop a solid grounding in anatomy and medical physics along with introductory knowledge of patient health-care needs, professional communication techniques and ethical, legal and accountability issues. Introductory studies in medical radiation technology are complemented with practical sessions in QUT's medical imaging laboratories, allowing you to develop your skills in patient
positioning and image production for skeletal radiography.

Year 2
Building on your introductory units, you will progress to more advanced and specialised study of human anatomy including diseases of the organ systems, obstetrics, gynaecology, central nervous system, paediatrics and geriatrics. Specialised practical sessions in QUT's facilities will focus on regional anatomy of the head, neck, upper limb and lower limb. You will learn about the specialist

techniques
of mammography, tomography, trauma radiography, and ward and operating theatre radiography. In each semester you will have an opportunity to practise your skills in a real workplace through placements in clinical departments.

Year 3

You will continue to develop your skills through clinical placements in hospitals or private practices. At QUT, you will undertake theoretical and practical classes in advanced techniques such as angiography, and interventional techniques. In-depth knowledge of the uses and applications of X-ray computed tomography (CT) and magnetic resonance imaging (MRI) will be covered along with valuable techniques
in digital image processing. You will round off your professional education by learning about the techniques used in professional practice including image formation evaluation and image interpretation.

Majors

There are two majors in the Bachelor of Applied Science - Medical Radiation Technology. Students choose either Radiotherapy Technology or Medical Imaging Technology

OP Guarantee

The OP Guarantee does not apply to this program.

Further Information

For Further information on the course, pleaes contact the following:

Medical Imaging Technology Coordinator

Mrs Debbie Starkey
Phone: +61 7 3138 2596
Email: d.starkey@qut.edu.au

Course Coordinator

Associate Professor Pam Rowntree
Phone: +61 7 3138 2346
Email: p.rowntree@qut.edu.au

Course structure for students who commenced in 2009 and 2010

Year 1, Semester 1	
LSB145	Anatomy 1
PCB007	Patient Care in Professional Practice
PCB178	Principles of Medical Radiations
PCB272	Radiation Physics

Year 1, Semester 2	
LSB245	Anatomy 2 and Introductory Pathology
PCB276	General Radiography 1
PCB277	Radiographic Practice
PCB675	Radiation Safety and Biology

Year 2, Semester 1	
LSB321	Systematic Pathology
LSB345	Regional & Imaging Anatomy 1
PCB375-1	Radiographic Equipment
PCB377	General Radiography 2
PCB379	Clinical Radiography 1

Year 2, Semester 2	
LSB445	Regional and Imaging Anatomy 2
PCB375-2	Radiographic Equipment
PCB476	Special Procedures
PCB477	Complementary Imaging Techniques
PCB479	Clinical Radiography 2

Year 3, Semester 1	
PCB567	Advanced Radiographic Technique 1
PCB581-1	Clinical Radiography 3
PCB593	Digital Image Processing
PCB672-1	Project
PCB681	Computed Tomography Imaging

Year 3, Semester 2	
PCB581-2	Clinical Radiography 3
PCB667	Advanced Radiographic Technique 2
PCB672-2	Project
PCB682	Magnetic Resonance Imaging

Course structure for students who commenced prior to 2009

Year 1, Semester 1	
LSB145	Anatomy 1
PCB007	Patient Care in Professional Practice
PCB107	Physics and Quantitative Techniques
PCB178	Principles of Medical Radiations

Year 1, Semester 2	
LSB245	Anatomy 2 and Introductory Pathology
PCB272	Radiation Physics
PCB276	General Radiography 1
PCB277	Radiographic Practice

Year 2, Semester 1	
LSB321	Systematic Pathology
LSB345	Regional & Imaging Anatomy 1
PCB375-1	Radiographic Equipment
PCB377	General Radiography 2
PCB379	Clinical Radiography 1

Year 2, Semester 2	
LSB445	Regional and Imaging Anatomy 2
PCB375-2	Radiographic Equipment
PCB476	Special Procedures

PCB477   Complementary Imaging Techniques

PCB479   Clinical Radiography 2

Year 3, Semester 1

PCB567   Advanced Radiographic Technique 1

PCB580-1 Clinical Radiography 3

PCB593   Digital Image Processing

PCB672-1 Project

PCB681   Computed Tomography Imaging

Year 3, Semester 2

PCB580-2 Clinical Radiography 3

PCB667   Advanced Radiographic Technique 2

PCB672-2 Project

PCB675   Radiation Safety and Biology

PCB682   Magnetic Resonance Imaging

Potential Careers:

Medical Imaging Technologist, Radiographer.

Bachelor of Applied Science - Medical Radiation Technology (Radiotherapy Technology) (PH38)

Year offered: 2011
Admissions: No
CRICOS code: 037588F
Course duration (full-time): 3 Years
Domestic fees (indicative): 2011: CSP $2,671 (indicative) per semester
International Fees (indicative): 2011: $11,250 (indicative) per semester
Domestic Entry: February. For 2011 entry, please refer to ST31 Bachelor of Radiation Therapy
QTAC code: 418192
Past rank cut-off: 94 and a successful questionnaire (see Additional Entry Requirements)
Past OP cut-off: 4 and a successful questionnaire (see Additional Entry Requirements)
Assumed knowledge: English (4, SA), Maths B (4, SA) and Physics (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 288
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Pam Rowntree
Campus: Gardens Point

Overview

QUT is currently the only university in Queensland to offer a radiotherapy technology undergraduate qualification. This course leads to employment as a radiation therapist, assisting cancer patients at the most difficult time in their lives.

Why Choose this Course

QUT works closely with the health sector in an effort to ensure that the number of graduates is in line with demand. In recent years, more than 95 per cent of graduates gained full-time employment within four months of graduation.

This course is designed in consultation with clinical staff from radiation oncology departments, so you will gain advanced knowledge of new treatment techniques and equipment used in the workplace. QUT's well equipped laboratories allow you to graduate with experience using treatment planning equipment and techniques similar to those used in industry. Close links with local oncology departments allow you to complete practical work and clinical placements using specialised, state-of-the-art radiotherapy equipment.

Career Outcomes

As a radiation therapist in a radiotherapy department of a major hospital or private institution, you may become a member of a team treating cancer patients and be responsible for planning and delivering prescribed radiation doses.

Professional Recognition

On graduation, you will be eligible for provisional accreditation by the Australian Institute of Radiography (AIR). Full accreditation requires the completion of an additional professional development year of clinical experience.

English Language Skills (Applicable to health practitioners applying for registration)
All applicants must be able to demonstrate English language skills at IELTS academic level 7 or equivalent. Test results from examinations will generally need to be obtained within two years prior to applying for registration.

Other Majors

See also the separate entry for the following major in this course: Bachelor of Applied Science - Medical Radiation Technology (Medical Imaging Technology).

Early Closing Date

Late QTAC applications and changes of preference for this program close **26 November 2010**.

International Student Entry

This course is not available for international student entry.

Other Course Requirements

You will be required to undertake clinical experience in hospital departments and private practices during the course and, as a result, will have direct patient contact during your placement and may be exposed to blood and body fluids of patients. You must be vaccinated for Hepatitis B and must provide a post-vaccination pathological report or similar certification showing proof of immunity, prior to undertaking the first clinical placement.

Cardiopulmonary resuscitation (CPR) certification is also required to undertake clinical placements. In addition, you should satisfy criteria related to health status, including declaration of height, physical disabilities, treatment of nervous condition, any drug/alcohol disorder and a current immunisation status (specifically Hepatitis B) as part of the online enrolment process.

Blue Card: A current blue card authorised with QUT may be required prior to commencing the clinical placement components of this course. For more information visit www.bluecard.qut.edu.au, and ensure that you allow adequate time for processing your application and issuing of the card in order to avoid clinical experience delays.

Your Course
Year 1
You will develop a solid grounding in anatomy and medical physics along with introductory knowledge of patient health-care needs, professional communication techniques and ethical, legal and accountability issues. Introductory studies in medical radiation and
radiotherapy techniques are complemented with practical sessions using equipment in clinical departments. You will learn a range of skills including patient data acquisition, radiation dosimetry and the basic techniques of treatment

delivery including beam direction and beam defining devices.

Year 2

You will progress to further studies in anatomy and pathology as well as the planning of complex techniques like photon therapy, electron therapy, and megavoltage therapy, including techniques for specific sites. The use of computer software to assist with the optimisation of isodose distributions will be covered along with issues related to the interaction of radiation with tissue, dose measurement and related quality assurance procedures. You will undertake practical exercises in hospital clinical departments along with your first clinical placement period, allowing you to gain real experience in a working environment.

Year 3

You will continue to develop your skills through clinical placements in hospitals and practical classes using equipment in clinical settings. You will cover the techniques of medical imaging used in the detection of cancer, along with future directions of three dimensional treatment planning. You will progress to more complex and specialised techniques for child patients and patients with communicable disease, along with the latest developments and techniques complementary to the modern radiotherapy treatment of cancer. You will learn important information about the biological effects of ionising radiation and the philosophy and protocol in radiation protection and quality assurance.

Further Information

For further information about this course, please contact:

Radiotherapy Technology Coordinator
Mrs Julie Burbery
Phone: +61 7 3138 2273
Email: julie.burbery@qut.edu.au

Course Coordinator
Associate Professor Pam Rowntree
Phone: +61 7 3138 2346
Email: p.rowntree@qut.edu.au

Course structure for students who commenced in 2009 and 2010

Year 1, Semester 1	
LSB145	Anatomy 1
PCB007	Patient Care in Professional Practice
PCB178	Principles of Medical Radiations
PCB272	Radiation Physics

Year 1, Semester 2	
LSB245	Anatomy 2 and Introductory Pathology
PCB286	Treatment Planning 1
PCB287	Radiation Therapy 1
PCB675	Radiation Safety and Biology

Year 2, Semester 1	

LSB321	Systematic Pathology
LSB345	Regional & Imaging Anatomy 1
PCB389	Clinical Radiotherapy 1
PCB396	Treatment Planning 2
PCB397-1	Radiation Therapy 2

Year 2, Semester 2	
LSB445	Regional and Imaging Anatomy 2
PCB397-2	Radiation Therapy 2
PCB489	Clinical Radiotherapy 2
PCB495	Treatment Planning 3
PCB496	Radiotherapy Equipment

Year 3, Semester 1	
PCB587	Radiation Therapy 3
PCB591-1	Clinical Radiotherapy 3
PCB593	Digital Image Processing
PCB595	Treatment Planning 4
PCB672-1	Project

Year 3, Semester 2	
PCB591-2	Clinical Radiotherapy 3
PCB672-2	Project
PCB687	Specialised Radiotherapy Technique
PCB695	Advanced Treatment Planning Topics

Course structure for students who commenced prior to 2009

Year 1, Semester 1	
LSB145	Anatomy 1
PCB007	Patient Care in Professional Practice
PCB107	Physics and Quantitative Techniques
PCB178	Principles of Medical Radiations

Year 1, Semester 2	
LSB245	Anatomy 2 and Introductory Pathology
PCB272	Radiation Physics
PCB286	Treatment Planning 1
PCB287	Radiation Therapy 1

Year 2, Semester 1	
LSB321	Systematic Pathology
LSB345	Regional & Imaging Anatomy 1
PCB389	Clinical Radiotherapy 1
PCB396	Treatment Planning 2
PCB397-1	Radiation Therapy 2

Year 2, Semester 2	
LSB445	Regional and Imaging Anatomy 2
PCB397-2	Radiation Therapy 2

PCB489   Clinical Radiotherapy 2

PCB495   Treatment Planning 3

PCB496   Radiotherapy Equipment

Year 3, Semester 1

PCB587   Radiation Therapy 3

PCB590-1 Clinical Radiotherapy 3

PCB593   Digital Image Processing

PCB595   Treatment Planning 4

PCB672-1 Project

Year 3, Semester 2

PCB590-2 Clinical Radiotherapy 3

PCB672-2 Project

PCB675   Radiation Safety and Biology

PCB687   Specialised Radiotherapy Technique

PCB695   Advanced Treatment Planning Topics

Potential Careers:

Radiation Therapist.

Graduate Certificate in Applied Science (Breast Ultrasound) (PH60)

Year offered: 2011
Admissions: Yes
Course duration (part-time): 2 semesters (1 year)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Domestic Entry: February
Total credit points: 48
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Pam Rowntree
Discipline coordinator: Gillian Kennedy (Breast Ultrasound)
Campus: Gardens Point

Overview

This Graduate Certificate offers studies specifically in breast ultrasound techniques. Students are given the scientific basis for understanding, using and evaluating relevant equipment and techniques.

Career Outcomes

This course is particularly designed for graduates and practitioners in ultrasound fields, such as radiographers, medical imaging technologists and sonographers, who wish to upgrade their qualifications and are interested in an in-depth study in this rapidly developing specialty area of ultrasound.

Entry requirements

To be eligible for admission an applicant:

-   will normally be qualified as a medical imaging technologist (diagnostic radiographer) at degree or diploma level, and
-   have a minimum of two years experience in a clinical medical imaging practice.

    Students must give written proof of access to suitable clinical experience for the duration of the course.

    Applicants with other qualifications and appropriate experience may be permitted to enter subject to approval.

Course Design

Students must be employed in a suitable clinical practice with adequate access to clinical experience for the duration of the course. Formal lectures are conducted in an intensive one-week block of classes at the beginning of each semester. Further academic requirements can be met without requiring on-campus attendance.
Students not based in Brisbane can minimise their time on campus by completing an intensive oneweek block each semester.

Professional Recognition

This course is accredited with the Australasian Sonographer Accreditation Registry (ASAR).

International Student Entry

This course is not available to international students.

Further Information

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

Course Coordinator

Associate Professor Pam Rowntree
Phone: +61 7 3138 2346
Email: p.rowntree@qut.edu.au

Discipline Coordinator

Gillian Kennedy (Breast Ultrasound)
Phone: +61 7 3138 7684
Email: gillian.kennedy@qut.edu.au

Course structure

To complete the Graduate Certificate in Applied Science (Breast Ultrasound), students must complete the units listed below (total 48 credit points).

Semester 1	
PCN162	Principles of Medical Ultrasound
PCN187	Specialist Studies
PCN397-1	Clinical Attachment

Semester 2	
PCN184	Breast Imaging
PCN397-2	Clinical Attachment
NOTE:	The PCN397 clinical attachment unit is a 2 semester unit

Potential Careers:

Sonographer.

Graduate Certificate in Lighting (on-shore) (PH62)

Year offered: 2011
Admissions: Yes
Course duration (part-time): 2 semesters (1 year) (Internal and External)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Domestic Entry: July
Total credit points: 48
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Ian Cowling
Campus: Gardens Point

Overview

The Graduate Certificate in Lighting (PH62) is designed primarily for people working in all areas of the lighting industry and engineers or architects whose work includes some aspects of lighting.

The Graduate Certificate in Lighting (PH62) provides an overview of all aspects of lighting, including light measurement, lamp properties and luminaire design, design of lighting installations, daylighting and the human factors associated with lighting.

The Graduate Diploma (PH72) then provides, through electives, the opportunity for some degree of specialisation appropriate to the student's needs and interests.

Finally the Master of Lighting (PH82) provides the opportunity for graduates of the above programs to undertake a Masters in the form of a project with some coursework.

Entry Requirements

- Bachelor-level degree in an appropriate field, **or**
- Demonstrated minimum of three years relevant experience in the lighting industry and successful completion of one or more recognised introductory courses in lighting as determined by the course coordinator.

Course Design

Graduate Certificate students will undertake four units (12 credit points each) covering the perception, specification and measurement of light, lamp and luminaire design, lighting design, sustainability issues and human factors.

Further Information

Course Coordinator

Associate Professor Ian Cowling
Phone: +61 7 3138 2592
Email: i.cowling@qut.edu.au

Course structure - Part-time

Year 1, Semester 2 (July to October)

PCN121	Vision Colour and Photometry

PCN124	Lamps and Luminaires

Year 2, Semester 1 (February to June)

PCN122	Lighting Design
PCN123	Sustainability and Human Factors

NOTES: PH62 is offered part-time comprising a lecture/tutorial format, and where appropriate practical and field work. Some units will have a significant computer-design type component and all units will incorporate learning through assignment work, all of which will be incorporated into the assessment program. Most units in the internal mode will be offered in block format on weekends.

Domestic students in the Graduate Certificate in Lighting (PH62) will be invited, on successful completion of 48 credit points, to continue with studies in the Graduate Diploma in Lighting (PH72), or can enrol directly in Master of Lighting (PH82).

International students wishing to change courses should consult International Student Business Services.

Potential Careers:

Architect, Electrical Contractor, Electrical Engineer, Energy Consultant, Industrial Designer, Landscape Architect, Lighting Designer, Lighting Technician, Luminaire Designer, Physicist, Sales Person, Scientist, Theatre Lighting.

Graduate Diploma in Applied Science (Medical Physics) (PH71)

Year offered: 2011
Admissions: Yes
CRICOS code: 020315D
Course duration (full-time): 2 semesters (1 year)
Course duration (part-time): 4 semesters (2 years)
Domestic fees (indicative): 2011: CSP $3,878 (indicative) per semester
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 96
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Andrew Fielding
Campus: Gardens Point

Overview

These courses deal with well-established and emerging areas of medical and health physics including clinical measurement, computing, health physics, instrumentation, medical electronics, medical imaging, physiological monitoring, physics of radiotherapy, radiobiology, and radiological imaging sciences. The coursework also contains an introduction to the clinical sciences.

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.

Entry Requirements

A bachelor degree in Physics or equivalent qualification, or other evidence of qualifications that satisfactorily demonstrate that the applicant possesses the capacity to pursue the course of study.

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

For further information about this course, please contact:

Dr Andrew Fielding
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure - First Semester Entry - Full-time Course

Year 1, Semester 1 (February to June)	
LSB142	Human 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

Course structure - First Semester Entry - Part-time Course

Year 1, Semester 1 (February to June)	
LSB142	Human Anatomy and Physiology
PCN113	Radiation Physics

Year 1, Semester 2 (July to October)	
PCN112	Medical Imaging Science
PCN212	Radiotherapy

Year 2, Semester 1 (February to June)	
PCN114	Microprocessors and Instrumentation
PCN211	Physics of Medical Imaging

Year 2, Semester 2 (July to October)	
PCN214	Health and Occupational Physics
PCN218	Research Methodology and Professional Studies

Course structure - Mid-Year Entry - Full-time Course

Year 1, Semester 2 (July to October)	
LSB182	Bioscience 1

PCN112   Medical Imaging Science

PCN212   Radiotherapy

PCN214   Health and Occupational Physics

Year 2, Semester 1 (February to June)

PCN113   Radiation Physics

PCN114   Microprocessors and Instrumentation

PCN218   Research Methodology and Professional
           Studies

PCN211   Physics of Medical Imaging

Course structure - Mid-Year Entry - Part-time Course

Year 1, Semester 2 (July to October)

LSB182   Bioscience 1

PCN112   Medical Imaging Science

Year 2, Semester 1 (February to June)

PCN113   Radiation Physics

PCN114   Microprocessors and Instrumentation

Year 2, Semester 2 (July to October)

PCN212   Radiotherapy

PCN214   Health and Occupational Physics

Year 3, Semester 1 (February to June)

PCN211   Physics of Medical Imaging

PCN218   Research Methodology and Professional
           Studies

Potential Careers:

Health Physicist, Medical Equipment Sales, Medical
Physicist.

Graduate Diploma in Applied Science (Medical Ultrasound) (PH71)

Year offered: 2011
Admissions: Yes
CRICOS code: 020315D
Course duration (part-time): 4 semesters (2 years)
Domestic fees (indicative): 2011: CSP $3,878 (indicative) per semester
Domestic Entry: February
Total credit points: 96
Standard credit points per part-time semester: 24
Course coordinator: Chandeep Bakshi
Discipline coordinator: Mr. Chandeep Bakshi
Campus: Gardens Point

Overview

The Graduate Diploma and Master of Applied Science courses in medical ultrasound give students the scientific basis for understanding, using and evaluating relevant equipment and techniques.

Career Outcomes

This course is particularly designed for graduates and practitioners in medical ultrasound fields, such as radiographers, and medical imaging and nuclear medicine technologists, who wish to upgrade their qualifications and depth of knowledge in this rapidly developing area.

Entry Requirements

Students will normally be qualified diagnostic radiographers or medical imaging technologists at degree or diploma level, or degree qualified nurses, and have at least two years of experience in a clinical practice. Students must give written proof of access to suitable clinical experience for the duration of the course.

Entry Requirements

Students will normally be qualified diagnostic radiographers or medical imaging technologists at degree or diploma level, or degree qualified nurses, and have at least two years of experience in a clinical practice. Students must give written proof of access to suitable clinical experience for the duration of the course.

Course Design

Stage 1— Graduate Diploma (PH71) takes four semesters of part-time study to complete. Students must show that they have access to suitable clinical experience for the duration of Stage 1 before commencing the degree. Lectures are conducted in intensive four- to five-week blocks in each semester. Students undertake clinical experience throughout the semester.

Stage 2— Master of Applied Science (PH80) involves completion of a research project and submission of a thesis. Students can undertake this project externally under QUT staff supervision on appointment of a suitable external supervisor. This stage takes two semesters part-time to complete after successful completion of Stage 1.

Professional Recognition

This course is accredited with the Australasian Sonographer Accreditation Registry (ASAR).

International Student Entry

These courses are not available to international students.

Further Information

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

Course Coordinator

Mr. Chandeep Bakshi
Phone: +61 7 3138 4113
Email: chandeep.bakshi@qut.edu.au

Course structure - Part-time

Students must complete the units listed below (total 96 credit points)

Year 1, Semester 1

PCN159	Ultrasonic Examination 1
PCN162	Principles of Medical Ultrasound
PCN197-1	Clinical Attachment 1

Year 1, Semester 2

PCN197-2	Clinical Attachment 1
PCN356	Ultrasonic Examination 2

Year 2, Semester 1

PCN297-1	Clinical Attachment 2
PCN355	Vascular Ultrasound
PCN357	Advanced Ultrasound Topics

Year 2, Semester 2

PCN218	Research Methodology and Professional Studies
PCN297-2	Clinical Attachment 2
NOTES	The PCN197 and PCN297 clinical attachment units are 2 semester units
	Each clinical attachment unit (ie PCN197 and PCN297) involves clinical experience in the order of 3 days per week or equivalent.

Potential Careers:

Sonographer.

Graduate Diploma in Lighting (on-shore) (PH72)

Year offered: 2011
Admissions: Yes
Course duration (part-time): 4 semesters (2 years) (Internal and External)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Domestic Entry: July
Total credit points: 96
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Ian Cowling
Campus: Gardens Point

Overview

The Graduate Diploma in Lighting (PH72) is designed primarily for people working in all areas of the lighting industry and engineers or architects whose work includes some aspects of lighting.

The Graduate Certificate in Lighting (PH62) provides an overview of all aspects of lighting, including light measurement, lamp properties and luminaire design, design of lighting installations, daylighting and the human factors associated with lighting.

The Graduate Diploma (PH72) then provides, through electives, the opportunity for some degree of specialisation appropriate to the student's needs and interests.

Finally the Master of Lighting (PH82) provides the opportunity for graduates of the above programs to undertake a Masters in the form of a project with some coursework.

Entry Requirements

- Bachelor-level degree in an appropriate field, **or**
- Successful completion of the Graduate Certificate in Lighting or equivalent.

Course Design

Graduate Diploma students will undertake 24 credit points (two units) of advanced lighting design and applications studies and two other units (24 credit points) which could include at least one unit in Project Management, Project Cost and Risk Management or Quality Management.

Further Information

For further information about this course, please contact:

Associate Professor Ian Cowling
Phone: +61 7 3138 2592
Email: i.cowling@qut.edu.au

Course structure - Part-time

Year 1, Semester 2 (July to October)

| PCN121 | Vision Colour and Photometry |
| PCN124 | Lamps and Luminaires |

Year 2, Semester 1 (February to June)

| PCN122 | Lighting Design |
| PCN123 | Sustainability and Human Factors |

Year 2, Semester 2 (July to October)

| PCN223 | Lighting Applications |
| PCN222 | Advanced Lighting Design |

Year 3, Semester 1 (February to June)

| PCN221 | Best Practices in Lighting |
| PCN224 | Applied Lighting |

NOTES: PH72 is offered part-time internally and externally. The course comprises a lecture/tutorial format, and where appropriate practical and field work. Some units will have a significant computer-design type component and all units will incorporate learning through assignment work, all of which will be incorporated into the assessment program. Most units in the internal mode will be offered in block format on weekends. Students enrolling in the external mode will be required to attend QUT for 4 to 5 days per semester for intensive practical and tutorial work.

Domestic students in the Graduate Diploma in Lighting (PH72) will be invited, on successful completion of 96 credit points, to continue with studies in the Master of Lighting (PH82).

Students in the Graduate Diploma in Lighting (PH72) wishing to exit with the Graduate Certificate in Lighting (PH62) are required to submit an Application to Graduate Early with an Approved Exit Course (SRX) Form in their final semester of study.

International students wishing to change courses should consult International Student Business Services.

Potential Careers:

Architect, Electrical Contractor, Electrical Engineer, Energy Consultant, Industrial Designer, Landscape Architect, Lighting Designer, Lighting Technician, Luminaire Designer, Physicist, Sales Person, Scientist, Theatre Lighting.

Graduate Diploma in Lighting (off-shore) (PH73)

Year offered: 2011
Admissions: No
Course duration (external): 4 semesters part-time (Hong Kong)
Domestic fees (indicative): Off-shore Course
International Entry: September
Total credit points: 96
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Ian Cowling
Campus: City University of Hong Kong

Overview

The Graduate Diploma in Lighting (PH73) is designed primarily for people working in all areas of the lighting industry and engineers or architects whose work includes some aspects of lighting.

All students in the Graduate Diploma (PH73) will have undertaken the 4 units of the Graduate Certificate in Lighting (PH63), providing an overview of all aspects of lighting, including light measurement, luminaire design, design of lighting installations, sustainability, daylighting and the human aspects associated with providing good lighting.

The Graduate Diploma (PH73) then provides, through electives, the opportunity for some degree of specialisation appropriate to the student's needs and interests.

Finally the Master of Lighting (PH83) provides the opportunity for graduates of the above programs to undertake a Masters in the form of a project with some coursework.

Entry Requirements

(a) Bachelor level degree in an appropriate field

OR

(b) Successful completion of PH62/PH63 Graduate Certificate in Lighting or equivalent.

Note: Students with relevant experience in the lighting industry or recognised educational qualifications in lighting may be granted credit to a maximum of 36 credit points.

Course Design

Graduate Diploma students will undertake 24 credit points (two units) of advanced lighting design and applications studies and two other units (24 credit points) which could include at least one unit in Project Management, Project Cost and Risk Management or Quality.

Contact Details

Course Coordinator

Associate Professor Ian Cowling
Phone: +61 7 3138 2592
Email: i.cowling@qut.edu.au

Course structure - Part-time

First Semester (September to December)

PCZ121	Vision Colour and Photometry
PCZ124	Lamps and Luminaires

Second Semester (January to April)

PCZ122	Lighting Design
PCZ123	Sustainability and Human Factors

Third Semester (May to August)

PCZ222	Advanced Lighting Design
PCZ223	Lighting Applications

Fourth Semester (September to December)

PCZ221	Best Practices in Lighting
PCZ224	Applied Lighting

NOTES: PH73 is offered part-time in a combination of face-to-face lecture/tutorial/practical format, and on-line. Some units will have a computer-design type component and all units will incorporate learning through assignment work, all of which will be incorporated into the assessment program. Except for the fourth semester, the two units offered each semester will be presented sequentially. The face-to-face teaching component will be offered in block form over a weekend, usually on the first weekend of the teaching period assigned to that unit. There will then be a follow-up face-to-face session about three weekends later. In the fourth semester both units will commence at the start of the semester.

Students in the Graduate Diploma in Lighting (PH73) wishing to continue their studies in the Master of Lighting (PH83), on successful completion of 96 credit points, are required to seek admission using an International Student Degree Program Application (F) Form.

Students in the Graduate Diploma in Lighting (PH73) wishing to exit with the Graduate Certificate in Lighting (PH63) are required to submit an Application to Graduate Early with an Approved Exit Course (SRX) Form in their final semester of study.

Potential Careers:

Architect, Electrical Contractor, Electrical Engineer, Energy Consultant, Industrial Designer, Landscape Architect, Lighting Designer, Lighting Technician, Luminaire Designer, Physicist, Sales Person, Scientist, Theatre Lighting.

Graduate Diploma in Cardiac Ultrasound (PH75)

Year offered: 2011
Admissions: Yes
Course duration (part-time): 4 semesters (2 years) (External only)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester (Please refer to Domestic Fees note below)
International Fees (indicative): 2011: $11,350 (indicative) per semester
Domestic Entry: February: Early Closing Date - 1 December 2010.
Total credit points: 96
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Bonita Anderson
Campus: External

Overview

The Graduate Diploma and Master of Cardiac Ultrasound programs offer studies for practising cardiac sonographers. The courses use a combination of block classes of approximately one week's duration in each semester, webbased modules and clinical practice modules.

Entry Requirements

To be eligible for admission, an applicant:

- will normally have a diploma level qualification with a minimum of 5 years clinical experience in cardiac ultrasound degree or a bachelor degree in a relevant science or allied health field
- must provide written proof of a minimum of three months full-time equivalent prior supervised, hands-on clinical experience in cardiac ultrasound
- must have access to suitable clinical experience for the duration of the course (In accordance with the Australasian Sonographer Accreditation Registry (ASAR) Program Accreditation Guidelines, it is recommended that students be engaged in cardiac ultrasound practice for a minimum of 3 days/week over a 2 year period, full-time equivalent, in an Australian or New Zealand clinical setting)

Course Design

Stage 1— Graduate Diploma in Cardiac Ultrasound (PH75) takes two years of part-time study to complete. Students must be employed in a suitable clinical practice with access to clinical cardiac ultrasound experience for the course duration. Students outside Brisbane may complete the formal classroom component in an intensive one-week block.

Professional Recognition

This course is accredited with the Australasian Sonographer Accreditation Registry (ASAR).

International Student Entry

These courses are not available to student visa holders. **International students on a work visa of 2 years or more including study rights in Australia are eligible to apply for this course.**

NB: New Zealand citizens may apply for entry into this course as domestic students.

Domestic Fees:

Please note that the Domestic Fees quoted above are based on full-time studies. This course is a part-time course. For Domestic postgraduate tuition fees please refer to this web site to view the costs of individual units: **student.qut.edu.au/fees-and-finances/study-costs/fee-schedule/table-b-domestic-postgraduate-tuition-fee/**

Further Information

For further Information about this course, please contact:

Bonita Anderson
Phone: +61 7 3138 2585
Email: b.anderson@qut.edu.au

Course structure

Year 1, Semester 1	
PCN155	Cardiac Ultrasound 1
PCN162	Principles of Medical Ultrasound
PCN497-1	Clinical Attachment 4

Year 1, Semester 2	
PCN259	Cardiac Ultrasound 2
PCN497-2	Clinical Attachment 4

Year 2, Semester 1	
PCN218	Research Methodology and Professional Studies
PCN359	Cardiac Ultrasound 3
PCN597-1	Clinical Attachment 5

Year 2, Semester 2	
PCN459	Advanced Cardiac Ultrasound
PCN597-2	Clinical Attachment 5

NOTES:	The PCN497 and PCN597 clinical attachment units are 2 semester units.
	Domestic students in the Graduate Diploma in Cardiac Ultrasound (PH75) will be invited, on successful completion of 96 credit points, to continue with studies in the Master of Cardiac Ultrasound (PH85).

Potential Careers:

Sonographer.

Master of Applied Science (Medical Physics) (PH80)

Year offered: 2011
Admissions: Yes
CRICOS code: 043548G
Course duration (full-time): 3 semesters (1.5 years)
Course duration (part-time): 6 semesters (3 years)
Domestic fees (indicative): 2011: CSP $3,878 per semester (indicative)
International Fees (indicative): 2011: $11,250 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Andrew Fielding
Campus: Gardens Point

Overview

These courses deal with well-established areas of medical and health physics including clinical measurement, computing, health physics, instrumentation, medical electronics, medical imaging, physiological monitoring, physics of radiotherapy, radiobiology and radiological imaging sciences. The coursework also contains an introduction to the clinical sciences.

Other Majors

See also the separate entry for the following major in this course: Master of Applied Science (Medical Ultrasound).

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.

Entry Requirements

Applicants must possess an acceptable Bachelor of Science degree with a major in physics. 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.

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

For further information about this course, please contact:

Dr Andrew Fielding
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure - First Semester Entry - Full-time Course

STAGE 1: Students must complete units from the list below, totalling 96 credit points:	

Year 1, Semester 1 (February to June)	
LSB142	Human 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)

Course structure - First Semester Entry - Part-time Course

STAGE 1: Students must complete units from the list below, totalling 96 credit points:	

Year 1, Semester 1 (February to June)	
LSB142	Human Anatomy and Physiology
PCN113	Radiation Physics

Year 1, Semester 2 (July to October)	
PCN112	Medical Imaging Science
PCN212	Radiotherapy

Year 2, Semester 1 (February to June)

PCN114   Microprocessors and Instrumentation

PCN211   Physics of Medical Imaging

Year 2, Semester 2 (July to October)

PCN214   Health and Occupational Physics

PCN218   Research Methodology and Professional Studies

STAGE 2: Project over Two Semesters:

PCN540-1 Project (Part-time)

PCN540-2 Project (Part-time)

Course structure - Mid-Year Entry - Full-time Course

STAGE 1: Students must complete units from the list below, totalling 96 credit points:

Year 1, Semester 2 (July to October)

LSB182   Bioscience 1

PCN112   Medical Imaging Science

PCN212   Radiotherapy

PCN214   Health and Occupational Physics

Year 2, Semester 1 (February to June)

PCN113   Radiation Physics

PCN114   Microprocessors and Instrumentation

PCN211   Physics of Medical Imaging

PCN218   Research Methodology and Professional Studies

STAGE 2: Project over One Semester or Summer Program

PCN520   Project (Full-time)

Course structure - Mid-Year Entry - Part-time Course

STAGE 1: Students must complete units from the list below, totalling 96 credit points:

Year 1, Semester 2 (July to October)

LSB182   Bioscience 1

PCN112   Medical Imaging Science

Year 2, Semester 1 (February to June)

PCN113   Radiation Physics

PCN114   Microprocessors and Instrumentation

Year 2, Semester 2 (July to October)

PCN212   Radiotherapy

PCN214   Health and Occupational Physics

Year 3, Semester 1 (February to June)

PCN211   Physics of Medical Imaging

PCN218   Research Methodology and Professional Studies

STAGE 2: Project over Two Semesters:

PCN540-1 Project (Part-time)

PCN540-2 Project (Part-time)

Potential Careers:

Health Physicist, Medical Equipment Sales, Medical Physicist, Medical Scientist.

Master of Applied Science (Medical Ultrasound) (PH80)

Year offered: 2011
Admissions: Yes
CRICOS code: 043548G
Course duration (part-time): 6 semesters (3 years)
Domestic fees (indicative): 2011: CSP $3,878 per semester (indicative)
International Fees (indicative): 2011: $11,250 (indicative) per semester
Domestic Entry: February
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Chandeep Bakshi
Discipline coordinator: Mr. Chandeep Bakshi
Campus: Gardens Point

Overview

The Graduate Diploma and Master of Applied Science courses in medical ultrasound give students the scientific basis for understanding, using and evaluating relevant equipment and techniques.

Other Majors

See also the separate entry for the following major in this course: Master of Applied Science (Medical Physics).

Career Outcomes

This course is particularly designed for graduates and practitioners in medical ultrasound fields, such as radiographers, and medical imaging and nuclear medicine technologists, who wish to upgrade their qualifications and depth of knowledge in this rapidly developing area.

Entry Requirements

To be eligible for admission an applicant:

- will normally have a degree or diploma-level qualification in a relevant science or allied health field, and
- access to suitable clinical experience for the duration of the course.

  Students who do not meet normal entry requirements may be permitted to enter the course subject to approval.

  Applicants should submit relevant details of previous studies and prior learning experiences. In some cases a bridging program may be required.

Course Design

Stage 1— Graduate Diploma (PH71) takes four semesters of part-time study to complete. Students must show that they have access to suitable clinical experience for the duration of Stage 1 before commencing the degree. Lectures are conducted in intensive four- to five-week blocks in each semester. Students undertake clinical experience throughout the semester.

Stage 2— Master of Applied Science (PH80) involves completion of a research project and submission of a thesis. Students can undertake this project externally under QUT staff supervision on appointment of a suitable external supervisor. This stage takes two semesters part-time to complete after successful completion of Stage 1.

Professional Recognition

This course is accredited with the Australasian Sonographer Accreditation Registry.

International Student Entry

These courses are not available to international students.

Contact Details

For further information about this course, please contact:

Chandeep Bakshi
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure - First Semester Entry - Part-time Course

STAGE 1: Students must complete the units listed below, totalling 96 credit points:

Year 1, Semester 1

PCN159	Ultrasonic Examination 1
PCN162	Principles of Medical Ultrasound
PCN197-1	Clinical Attachment 1

Year 1, Semester 2

PCN197-2	Clinical Attachment 1
PCN356	Ultrasonic Examination 2

Year 2, Semester 1

PCN297-1	Clinical Attachment 2
PCN355	Vascular Ultrasound
PCN357	Advanced Ultrasound Topics

Year 2, Semester 2

PCN218	Research Methodology and Professional Studies
PCN297-2	Clinical Attachment 2
NOTES	- The Clinical Ultrasound units PCN197 and PCN297 are 2 semester units.
	- Each clinical attachment unit (ie PCN197 and PCN297) involves clinical experience in the order of 3 days per week or equivalent.

STAGE 2

Project over One Semester or Summer Program:

PCN520	Project (Full-time)

Project over Two Semesters:

PCN540-1   Project (Part-time)

PCN540-2   Project (Part-time)

NOTE   A student may request an extension of time in
            which to submit the project report for
            assessment. A request for an extension of time
            up to a maximum of six months shall be made
            in writing through the Head of School to the
            Dean. Any request for a further extension, or
            any request for an extension to a date later
            than six months after the original due date,
            shall be made in writing to the Academic
            Board. The Academic Board may grant the
            extension under such conditions as it may
            consider appropriate, or may award the student
            a "Fail" result in the project unit. A student who
            has received a "Fail" result in the project unit
            may re-enrol in the unit only in exceptional
            circumstances and with the express permission
            of the Academic Board.

Potential Careers:

Sonographer.

Master of Lighting (on-shore) (PH82)

Year offered: 2011
Admissions: Yes
CRICOS code: 058287A
Course duration (full-time): 3 semesters (1.5 years) (Internal only)
Course duration (part-time): 6 semesters (3 years) (Internal and External)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
International Fees (indicative): 2011: $11,500 (indicative) per semester
Domestic Entry: July
International Entry: July
Total credit points: 144
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Ian Cowling
Campus: Gardens Point

Overview

The Master of Lighting (PH82) is designed primarily for people working in all areas of the lighting industry and engineers or architects whose work includes some aspects of lighting. It provides the opportunity for graduates of the Graduate Certificate in Lighting (PH62) and the Graduate Diploma in Lighting (PH72) to undertake a Masters in the form of a project with some coursework.

Entry Requirements
- Bachelor-level degree in an appropriate field, **or**
- successful completion of the Graduate Certificate or Graduate Diploma in Lighting or equivalent.

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.

Further Information

For further information about this course, please contact:

Ian Cowling
Phone: +61 7 3138 2592
Email: i.cowling@qut.edu.au

Course structure - Full-time

Year 1, Semester 2 (July to October)	
PCN121	Vision Colour and Photometry
PCN123	Sustainability and Human Factors
PCN124	Lamps and Luminaires
PCN224	Applied Lighting

Year 2, Semester 1 (February to June)	
PCN122	Lighting Design

PCN221	Best Practices in Lighting
PCN321	Reading Topic 1
PCN322	Reading Topic 2

Year 2, Semester 2 (July to October)	
PCN222	Advanced Lighting Design
PCN223	Lighting Applications
PCN320	Lighting Project

Course structure - Part-time

Year 1, Semester 2 (July to October)	
PCN121	Vision Colour and Photometry
PCN124	Lamps and Luminaires

Year 2, Semester 1 (February to June)	
PCN122	Lighting Design
PCN123	Sustainability and Human Factors

Year 2, Semester 2 (July to October)	
PCN223	Lighting Applications
PCN222	Advanced Lighting Design

Year 3, Semester 1 (February to June)	
PCN221	Best Practices in Lighting
PCN224	Applied Lighting

Year 3, Semester 2* (July to October)	
PCN321	Reading Topic 1
	or approved elective
PCN322	Reading Topic 2
	or approved elective

Year 4, Semester 1* (February to June)	
PCN320	Lighting Project

* The Fifth and Sixth semesters can be taken concurrently in full-time mode.

PH82 is offered full-time internally and part-time internally and externally. The course comprises a lecture/tutorial format, and where appropriate practical and field work. Some units will have a significant computer-design type component and all units will incorporate learning through assignment work, all of which will be incorporated into the assessment program. Most units in the internal mode will be offered in block format on evenings and weekends. Students enrolling in the external mode will be required to attend QUT for 4 to 5 days per semester for intensive practical and tutorial work.

Students in the Master of Lighting (PH82) wishing to exit with the Graduate Certificate in Lighting (PH62) or Graduate Diploma in Lighting (PH72) are required to submit an Application to Graduate Early with an Approved Exit Course (SRX) Form in their final semester of study.

International students wishing to change
courses should consult International Student
Business Services.

Potential Careers:

Architect, Electrical Contractor, Electrical Engineer, Energy
Consultant, Industrial Designer, Landscape Architect,
Lighting Designer, Lighting Technician, Luminaire Designer,
Physicist, Sales Person, Scientist, Theatre Lighting.

Master of Lighting (off-shore) (PH83)

Year offered: 2011
Admissions: No
Course duration (external): 3 semesters (1 year) full-time and 6 semesters (2 years) part-time (Hong Kong)
Domestic fees (indicative): Off-shore course
International Entry: September
Total credit points: 144
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Ian Cowling
Campus: City University of Hong Kong

Overview

The Master of Lighting (PH83) is designed primarily for people working in all areas of the lighting industry and engineers or architects whose work includes some aspects of lighting. It provides the opportunity for graduates of the Graduate Certificate in Lighting (PH63) and the Graduate Diploma in Lighting (PH73) to undertake a Masters in the form of a project with some coursework.

Entry Requirements

(a) Bachelor level degree in an appropriate field

OR

(b) Successful completion of the PH72/PH73 Graduate Diploma in Lighting or equivalent.

Note: Students with relevant experience in the lighting industry or recognised educational qualifications in lighting may be granted credit to a maximum of 36 credit points.

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.

Contact Details
Course Coordinator

Associate Professor Ian Cowling
Phone: +61 7 3138 2592
Email: i.cowling@qut.edu.au

Course structure - Part-time

First Semester (September to December)

| PCZ121 | Vision Colour and Photometry |
| PCZ124 | Lamps and Luminaires |

Second Semester (January to April)

| PCZ122 | Lighting Design |
| PCZ123 | Sustainability and Human Factors |

Third Semester (May to August)

| PCZ222 | Advanced Lighting Design |
| PCZ223 | Lighting Applications |

Fourth Semester (September to December)

| PCZ221 | Best Practices in Lighting |
| PCZ224 | Applied Lighting |

Fifth Semester (January to April)

PCZ321	Reading Topic 1
	Or approved elective
PCZ322	Reading Topic 2
	Or approved elective

Sixth Semester (May to August)

| PCZ320 | Lighting Project |

NOTE: PH83 will be offered part-time in a combination of face-to-face lecture/tutorial/practical format, and on-line. Some units will have a computer-design type component and all units will incorporate learning through assignment work, all of which will be incorporated into the assessment program. For the first three semesters the two units offered each semester will be presented sequentially. The face-to-face teaching component will be offered in block form over a weekend, usually on the first weekend of the teaching period assigned to that unit. There will then be a follow-up face-to-face session about three weekends later. For the fourth and fifth semesters both units will commence together at the start of the semester.

Students in the Master of Lighting (PH83) wishing to exit with the Graduate Certificate in Lighting (PH63) or Graduate Diploma in Lighting (PH73) are required to submit an Application to Graduate Early with an Approved Exit Course (SRX) Form in their final semester of study.

Potential Careers:

Architect, Electrical Contractor, Electrical Engineer, Energy Consultant, Industrial Designer, Landscape Architect, Lighting Designer, Lighting Technician, Luminaire Designer, Physicist, Sales Person, Scientist, Theatre Lighting.

Master of Cardiac Ultrasound (PH85)

Year offered: 2011
Admissions: Yes
Course duration (part-time): 6 semesters (3 years) (External only)
Domestic fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Domestic Entry: February: Early Closing Date - 1 December 2010. Stage 1 of this course commences in February and July (students with advanced standing). Stage 2 commences in February and July 2011.
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Bonita Anderson
Campus: Gardens Point

Overview

The Graduate Diploma and Master of Cardiac Ultrasound programs offer studies for practising cardiac sonographers. The courses use a combination of block classes of approximately one week's duration in each semester, webbased modules and clinical practice modules.

Entry Requirements

To be eligible for admission, an applicant:

- will normally have a diploma level qualification with a minimum of 5 years clinical experience in cardiac ultrasound degree or a bachelor degree in a relevant science or allied health field
- must provide written proof of a minimum of three months full-time equivalent prior supervised, hands-on clinical experience in cardiac ultrasound
- must have access to suitable clinical experience for the duration of the course.

    July entry into the Master of Cardiac Ultrasound is available only to students who have completed the Graduate Diploma in Cardiac Ultrasound or students with advanced standing.

    Advanced standing is granted to students who hold the Diploma in Medical Ultrasonography (Cardiac) awarded by the Australasian Society for Ultrasound in Medicine. An appropriate program of coursework should be discussed with the course coordinator.

Course Design

Stage 1— Graduate Diploma in Cardiac Ultrasound (PH75) takes two years
of part-time study to complete. Students must be employed in a suitable clinical practice with access to clinical cardiac ultrasound experience for the course duration. Students outside Brisbane may complete the formal classroom component in an intensive one-week block.

Stage 2— Master of Cardiac Ultrasound (PH85) involves completion of a research project and submission of a thesis. Students undertake this project externally under supervision of QUT staff and a suitable external supervisor. This stage takes one year part-time to complete after successful completion of Stage 1.

Professional Recognition

This course is accredited with the Australasian Sonographer Accreditation Registry (ASAR).

International Student Entry

These courses are not available to international students.

Fees

Please note that the Domestic Fees quoted above are based on full-time studies. This course is a part-time course. For Domestic postgraduate tuition fees please refer to this web site to view the costs of individual units: **student.qut.edu.au/fees-and-finances/study-costs/fee-schedule/table-b-domestic-postgraduate-tuition-fee/**

Further Information

For further information about this course, please contact:

Bonita Anderson
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

STAGE 1: Students must complete the units listed below, totalling 96 credit points:

Year 1, Semester 1

PCN155	Cardiac Ultrasound 1
PCN162	Principles of Medical Ultrasound
PCN497-1	Clinical Attachment 4

Year 1, Semester 2

PCN259	Cardiac Ultrasound 2
PCN497-2	Clinical Attachment 4

Year 2, Semester 1

PCN218	Research Methodology and Professional Studies
PCN359	Cardiac Ultrasound 3
PCN597-1	Clinical Attachment 5

Semester 2, Semester 2

PCN459	Advanced Cardiac Ultrasound
PCN597-2	Clinical Attachment 5
NOTE:	The PCN497 and PCN597 clinical attachment units are 2 semester units.

STAGE 2:* Students must complete the units listed below, totalling 48 credit points:

First Semester ** (Project Over Two Semesters)

PCN640-1	Project
PCN640-2	Project

Notes: A student may request an extension of time in which to submit the project report for assessment. A request for an extension of time up to a maximum of six months should be made in writing through the Head of School to the Dean. Any request for a further extension, or any request for an extension to a date later than six months after the original due date, should be made to the Academic Board. The Academic Board may grant the extension under such conditions as it may consider appropriate, or may award the student a "Fail" result in the project unit.

A student who has received a 'Fail' result in the project unit may re-enrol in the unit only in exceptional circumstances and with the express permission of the Academic Board.

* Masters project units are offered in both semesters.

** Second Semester enrolments for PH85 will only be accepted under the following circumstances:

1. Students who have successfully completed PH75 Graduate Diploma in Cardiac Ultrasound may enrol into the Masters project (PCN640-1) in second semester.

2. Students who have completed the Cardiac DMU and who are eligible to apply for advanced standing may enrol into PH85 in second semester.#

Under university rules and regulations, these students are required to undertake 50% of the coursework for PH85. Therefore, in addition to the Masters project, students will be required to complete two other units (PCN218 Research Methodology and Professional Studies and PCN459 Advanced Cardiac Ultrasound).

Students in the Master of Cardiac Ultrasound (PH85) wishing to exit with the Graduate Diploma in Cardiac Ultrasound (PH75) are required to submit an Application to Graduate Early with an Approved Exit Course (SRX) Form in their final semester of study.

Potential students are required to contact the course coordinator prior to applying for entry into PH85 to outline their research/project proposal.

Potential Careers:

Sonographer.

Bachelor of Applied Science (SC01)

Year offered: 2011
Admissions: Yes
CRICOS code: 003502J
Course duration (full-time): 3 Years
Course duration (part-time): 6 Years
Domestic fees (indicative): 2011: CSP $2,178 per semester (indicative)
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July* (Conditions apply for July entry)
QTAC code: 418011
Past rank cut-off: 77
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 288
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Marion Bateson
Discipline coordinator: Dr Perry Hartfield (Biochemistry Major); Dr Marion Bateson (Biotechnology Major); Dr Dennis Arnold (Chemistry Major); Dr Ian Williamson (Ecology Major); Dr Robin Thwaites (Environmental Science Major); Dr Emad Kiriakous (Forensic Science Major); Dr Gary Huftile (Geoscience Major); Dr Christine Knox (Microbiology Major); Dr Stephen Hughes (Physics Major)
Campus: Gardens Point

Overview

The flexibility of QUT's Bachelor of Applied Science allows you to tailor the qualification to your needs and career aspirations. Would you like to be at the forefront of the latest discoveries in genetic engineering, improve the lives of others by researching new diagnostic techniques and treatments for diseases, or monitor a community's water supply ensuring it is safe to drink? You could help save an endangered species, investigate renewable energy sources or formulate solutions to problems like water shortages and salinity. You could advise world leaders on the causes and effects of global warming or even discover a new star in a far away galaxy.

Why Choose this Course

Employability:
Our courses are designed in consultation with industry, government and the professions. At QUT you won't just learn theory, you will apply it to real-world situations, ensuring your skills will be in demand when you graduate.

Practical teaching
From the beginning of your course you can expect to spend quality time in QUT's state-of-the-art laboratories learning the latest techniques and using equipment found in industry.

Learn from the experts
Our lecturers are experts in their field and include award-winning teachers and world-renowned researchers.

Cutting-edge technologies
You will learn about the latest discoveries from QUT's internationally recognised research facilities ensuring you graduate with the most up-to-date knowledge.

Financial support
A range of scholarships is available including the Dean's Scholars Accelerated Honours Program, Vice-Chancellor's Scholarship and Industrial Chemistry bursaries.

Real experience
If you are considering a career in research you can apply for a Vacation Research Experience Scholarship and undertake a real research project during the Summer Program.

Convenience
Gardens Point campus has a prime location in Brisbane's city centre with easy access via buses, trains and ferries.

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:

- Biochemistry
- Biotechnology
- Chemistry
- Ecology
- Environmental Science
- Forensic Science*
- Geoscience
- Microbiology
- Physics

* Students who select the Forensic Science major must

also select a 96cp Second Major in either Chemistry, Biotechnology, Biochemistry or Microbiology.

Second major (six units)

Personalise your degree by choosing a secondary specialisation (your second major) to complement your major area of study. This secondary specialisation may be one of the other majors, a second major (listed below), or an area outside the science disciplines:

- One of the nine science majors listed above or
- Applied Geology
- Astrophysics
- Biodiversity
- Chemistry for Industry
- Life Science Technologies
- Mathematics

or a non-science second major from this list:

- Aviation
- Corporate IT Systems
- Environmental Engineering Studies
- Ethics and Human Rights
- Foreign Languages
- Games Technology
- Geography
- Journalism
- Management
- Marketing
- Music
- Nutrition
- Psychology
- Spatial Science

Optional units (two units)

You also have the freedom to choose two units of study from Science and Technology, or across the University, to suit your own interests. Alternatively you may choose units to complement or deepen your expertise in your chosen science area of study.

Professional Recognition

For graduates with approved study: AusBiotech Ltd, Australasian Association of Clinical Biochemists (AACB), Australasian Institute of Mining and Metallurgy (AIMM), Australian and New Zealand Forensic Science Society (ANZFSS), Australian Institute of Geoscientists (AIG), Australian Institute of Physics (AIP), Australian Society for Biochemistry and Molecular Biology (ASBMB), Australian Society for Medical Research (ASMR), Australian Society for Microbiology (ASM), Australian Wildlife Management Society (AWMS), Ecological Society of Australia (ESA), Environment Institute of Australia and New Zealand (EIANZ), Geological Society of Australia (GSA), Royal Australian Chemical Institute (RACI), Soil Science Society of Australia (SSSA).

Recommended Study

At least one of the sciences. For biochemistry, biotechnology, forensic science, and microbiology majors -

Biological Science and Chemistry; for physics major - Maths C.

Science Second Major Areas of Study

You will choose a second major to complement your major area of study. This second major may be one of the majors offered within the Bachelor of Applied Science, or it may be one of the science second majors listed below. Alternatively you may choose another area of study outside the sciences.

Science Second Majors:

Applied Geology:

The Applied Geology second major is designed to complement the Geoscience major. The skills learned through core units in the major are applied to activities related to the petroleum, mineral, hydrogeological and environmental professions. You will learn the specialist techniques required to understand the genesis of ore deposits, set up mineral exploration programs, produce groundwater models, understand the fluid flow in petroleum reservoirs or manage the effects of human activity on the environment.

Astrophysics:

The Astrophysics second major is an exciting blend of astrophysics, geophysics, cosmology, digital image processing and remote sensing units, designed to be taken with a major in Physics, Mathematics or Geoscience. The second major is relevant to many real-world problems and applications, including satellite technology, telecommunications, minerals exploration and global warming. By taking this second major you will develop skills in computing, instrumentation, image processing, geodesy and materials science that will be useful for a wide variety of careers in industry and the public sector.

Biodiversity:

Biodiversity has evolved over the years as a discipline concerned with the conservation and sustainable use of the earth's biological diversity. It deals with the components of biological diversity, genes to biomes, and seeks to describe and quantify this diversity, and determine how it is produced and maintained. The Biodiversity second major is designed to complement both the Ecology and Environmental Science majors. Common threads are the basic biology of the species in Australian ecosystems, the systems they are a part of, and the evolution of these species and ecosystems.

Chemistry for Industry:

The Industrial Chemistry second major is designed to partner the Chemistry major. The emphasis is on analytical chemistry and chemical technology. It aims to familiarise you with state-of-the-art equipment and modern laboratory information systems as well as online monitoring and control of industrial processes. This second major is well recognised by employers in industrial, hospital and sports laboratories, by food and pharmaceutical producers and by instrument manufacturers as well as research organisations. As a graduate from this program you can look forward to a rewarding career commencing employment as a chemist and then moving through an organisation in supervisory and

managerial capacities. A number of industry-sponsored bursaries are available each year for students enrolled in the Chemistry and Chemistry for Industry second majors.

Life Science Technologies:
The many and varied disciplines which are characteristic of research and development activities in the life sciences are reflected in employer demand for a broad range of graduates with different specialisations and skills. The life sciences technologies second major addresses this demand by enabling you to tailor units from an available list to reflect your personal interests while strengthening your skills and expertise. In second year, you will undertake three units that expand your knowledge in a range of basic life science areas including physiology. In third year you will build your expertise and practical skills by selecting three advanced units from an approved list in the areas of biotechnology, biochemistry, microbiology or physiology. The strong technology focus of these units will complement your primary major and enhance your opportunities in an ever-increasing variety of niche employment areas.

Mathematics:
Mathematical Science provides powerful tools for analysis of today's complex world and gives an insight into many important real-world problems.

Course Rules
1. To fulfil the requirements for the award of the Bachelor of Applied Science degree, a student 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:

(a) the first year program as outlined in the course summary
(b) a major study
(c) a second major study

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

A major must be completed in one of the following discipline areas: biochemistry; biotechnology; chemistry; ecology; environmental science; forensic science; geoscience; microbiology; physics. A major comprises 96 credit points of units at advanced level, including at least 48 credit points at the third level.

A second major may be completed by selecting appropriate units from another major, or from the following discipline areas:

Science applied geology, astrophysics, biodiversity, chemistry for industry, life science technologies, mathematics.

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

A second major comprises 72 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) SCO1 majors/second majors other than those undertaken by a student, (b) other appropriate units offered by the Faculty of Science and Technology, and (c) units offered by other faculties.

3. Students are normally expected to complete the course in minimum time. A full-time student normally enrols in an average of 48 credit points per semester for six semesters and a part-time student normally enrols 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 Faculty of Science and Technology, the term advanced level refers to units in Schedules 2 and 3. For units offered outside the Faculty of Science and Technology, 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 BAppSc and will appear in the award title in parentheses. The general form of the award will therefore be: BAppSc(Major).

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 on deferment.

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

Course Coordinator
Dr Marion Bateson
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au

Discipline Coordinators

Biochemistry Major (Cell and Molecular Biosciences Discipline)
Dr Perry Hartfield

Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au
Alternative phone contact: +61 7 3138 2782
Alternative email contact: enquiry.scitech@qut.edu.au

Biotechnology Major (Cell and Molecular Biosciences Discipline)
Dr Marion Bateson
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au

Chemistry Major (Chemistry Discipline)
Dr Dennis Arnold
Phone: +61 7 3138 2482
Email: d.arnold@qut.edu.au
Alternative phone contact: +61 7 3138 2782
Alternative email contact: enquiry.scitech@qut.edu.au

Ecology Major (Biogeosciences Discipline)
Dr Ian Williamson
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Environmental Science Major (Biogeosciences Discipline)
Dr Robin Thwaites
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Forensic Science Major (Chemistry Discipline)
Dr Emad Kiriakous
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Geoscience Major (Biogeosciences Discipline)
Dr Gary Huftile
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Microbiology Major (Cell and Molecular Biosciences Discipline)
Dr Christine Knox
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Physics Major (Physics Discipline)
Dr Stephen Hughes
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Second Major in Applied Geology (compatible with Geoscience Major only)

NOTES: - In the full-time course structure each of the two electives available in the course need to be selected in the relevant semesters to total 4 units per semester.

- Select SIX appropriate units from the following program: [Note: units cannot be included if already counted towards Geoscience Major]

Year 1, Semester 1	
	Units as per Geoscience major

Year 1, Semester 2	
	Units as per Geoscience major

Year 2, Semester 1	
NQB302	Earth Surface Systems
	Recommended Elective:
UDB281	Geographic Information Systems

Year 2, Semester 2	
NQB403	Soils and the Environment
NQB413	Stratigraphy

Year 3, Semester 1	
NQB503	Spatial Analysis of Environmental Systems
NQB512	Economic Geology

Year 3, Semester 2	
NQB612	Basin Analysis and Petroleum Geology
NQB613	Plate Tectonics
NQB614	Groundwater Systems

Recommended Majors:	
	This second major is compatible with Geoscience Major only

Second Major in Astrophysics (compatible with Physics major only)

Year 1, Semester 1	
	Units as per Physics major

Year 1, Semester 2	
	Units as per Physics major

Year 2, Semester 1	
PCB593	Digital Image Processing
PQB360	Global Energy Balance and Climate Change

Year 2, Semester 2	
PQB460	Astrophysics 1
	Plus Elective

Year 3, Semester 1	
MAB312	Linear Algebra
	Plus Elective

Year 3, Semester 2	
PQB661	Lasers and Photonics
	Plus either:
ENB422	Energy Management
	Or

PQB660   Astrophysics 2

Recommended Majors:

> This second major is compatible with Physics major only

Second Major in Aviation (subject to timetable availability)

> Students who complete a Diploma of Aviation, approved by the Civil Aviation Authority of Australia, from an external provider can apply for a second major in Aviation. These students would receive 96 credit points toward the Bachelor of Applied Science (72 credit points at advanced level for the second major plus a further 24 credit points of elective units).

Note:

> Students interested in undertaking this second major should consult the course coordinator.

Second Major in Biochemistry (compatible with Life Science or Chemistry major only)

> This second major comprises six units, in excess of those already included in your major, from Biochemistry. You will need to ensure all necessary pre- and co-requisites are satisfied. Note: LQB386 can be included in the second major when taken with a Biotechnology major.

Recommended Majors:

> This second major is compatible with Life Science or Chemistry major only.

Second Major in Biodiversity (compatible with any Science major)

NOTES: - In the full-time course structure each of the two electives available in the course need to be selected in the relevant semesters to total 4 units per semester.

> - Select SIX appropriate units from the following program:

Year 1, Semester 1

> Units as per selected major

Year 1, Semester 2

> Units as per selected major

Year 2, Semester 1

LQB386   Microbial Structure and Function
NQB322   Invertebrate Biology
NQB323   Plant Biology

Year 2, Semester 2

LQB489   Plant Physiology and Cell Biology
NQB403   Soils and the Environment
NQB423   Vertebrate Biology

Year 3, Semester 1

NQB502   Field Methods in Natural Resource Sciences
NQB503   Spatial Analysis of Environmental Systems

Year 3, Semester 2

NQB601   Sustainable Environmental Management

Recommended Majors:

> This second major is compatible with any Science major

Note:

> NQB322, NQB323 and NQB423 are mandatory if not already taken in the major.

Second Major in Biotechnology (compatible with Life Science or Chemistry major only)

> This second major comprises six units, in excess of those already included in your major, from Biotechnology. You will need to ensure all necessary pre- and co-requisites are satisfied. Note: LQB386 can be included in the second major when taken with a Biochemistry major.

Recommended Majors:

> This second major is compatible with Life Science or Chemistry major only.

Second Major in Chemistry (compatible with Life Science or Environmental Science major only)

> This second major comprises six units, in excess of those already included in your major, from Chemistry. You will need to ensure all necessary pre- and co-requisites are satisfied.

Recommended Majors:

> This second major is compatible with Life Science or Environmental Science major only.

Second Major in Chemistry for Industry (compatible with Chemistry major only)

Year 1, Semester 1

> Units as per Chemistry major

Year 1, Semester 2

> Units as per Chemistry major

Year 2, Semester 1

PQB313   Analytical Chemistry For Industry
          Plus Elective

Year 2, Semester 2

PQB404   Nanotechnology and Nanoscience
PQB423   Process Principles

Year 3, Semester 1

PQB513	Instrumental Analysis
PQB525	Unit Operations

Year 3, Semester 2

PQB623	Chemistry in Industry and Technology
	Plus Elective

Recommended Majors:

This co-major is compatible with Chemistry major only

Second Major in Corporate IT Systems (subject to timetable availability)

Year 1, Semester 1

Units as per selected major

Year 1, Semester 2

Units as per selected major

Years 2 and 3, Semester 1

INB120	Corporate Systems
INB220	Business Analysis
	Select ONE unit from:
INB221	Technology Management
INB312	Enterprise Systems Applications
INB321	Business Process Management
INB322	Information Systems Consulting

Years 2 and 3, Semester 2

INB103	Industry Insights
INB123	Project Management Practice
INB335	Information Resources

Recommended Majors:

This second major is compatible with any Science major

Second Major in Ecology (compatible with Natural Resource Science or Chemistry major only)

This second major comprises six units, in excess of those already included in your major, from Ecology. You will need to ensure all necessary pre- and co-requisites are satisfied.

Recommended Majors:

This second major is compatible with Natural Resource Science or Chemistry major only.

Second Major in Environmental Engineering Studies (subject to timetable availability)

Year 1, Semester 1

Units as per selected major

Year 1, Semester 2

Units as per selected major

Choose any 6 of the following units for years 2 and 3

Years 2 and 3, Semester 1

ENB100	Engineering and Sustainability
OR	
UDB100	Urban Development and Sustainability

Years 2 and 3, Semester 2

ENB274	Design of Environmentally Sustainable Systems
UDB164	Population and Urban Studies

Years 2 and 3, Semester 1

ENB383	Environmental Resource Management
UDB266	Planning Processes and Consultations

Years 2 and 3 Semester 2

ENB380	Environmental Law and Assessment
UDB370	Environmental Planning and Management

Second Major in Environmental Science (compatible with Natural Res Science or Chemistry major only)

This second major comprises six units*, in excess of those already included in your major, from Environmental Science. You will need to ensure all necessary pre- and co-requisites are satisfied.

*Please Note: NQB403, NQB501 and NQB601 are compulsory.

Recommended Majors:

This second major is compatible with Natural Resource Science or Chemistry major only.

Second Major in Ethics and Human Rights (subject to timetable availability)

No longer available (2010 onwards). Students already enrolled should contact the course coordinator.

Second Major in Foreign Languages (subject to timetable availability)

Year 1, Semester 1

Units as per selected major

Year 1, Semester 2

Units as per selected major

Years 2 and 3, Semester 1 and 2

SIX units in either French or German or Indonesian or Japanese (with at least 4 units at advanced level). Note: these units may be undertaken at UQ or Griffith University

Recommended Majors:

> This co-major is compatible with any Science major

Second Major in Forensic Science (compatible with Life Science or Chemistry major only)

> This second major comprises six units, in excess of those already included in your major, from Forensic Science. You will need to ensure all necessary pre- and co-requisites are satisfied.

Recommended Majors:

> This second major is compatible with Life Science or Chemistry major only.

Second Major in Games Technology (subject to timetable availability)

Year 1, Semester 1

> Units as per selected major

Year 1, Semester 2

> Units as per selected major

Select a total of 6 units from Years 2 and 3, Semesters 1 and 2:

Years 2 and 3, Semester 1

INB104	Building IT Systems
INB270	Programming
INB370	Software Development
INB371	Data Structures and Algorithms
INB382	Real Time Rendering Techniques
INB383	AI for Games

Years 2 and 3, Semester 2

INB104	Building IT Systems
INB270	Programming
INB381	Modelling and Animation Techniques
MAB281	Mathematics for Computer Graphics

Recommended Majors:

> This second major is compatible with any Mathematics or Physics major

Second Major in Geography (subject to timetable availability)

Year 1, Semester 1

> Units as per selected major

Year 1, Semester 2

> Units as per selected major

Years 2 and 3, Semester 1

CLB113	Australian Geographical Studies

> Plus TWO units in consultation with the course coordinator.

Years 2 and 3, Semester 2

CLB105	Australia and the South Pacific
CLB110	Environment and Society
CLB111	Environmental Hazards

Recommended Majors:

> This second major is compatible with any Natural Resource Science major

Second Major in Geoscience (compatible with a Natural Resource Science or Physics major only)

> This second major comprises six units, in excess of those already included in your major, from Geoscience. You will need to ensure all necessary pre- and co-requisites are satisfied.

Recommended Majors:

> This second major is compatible with Natural Resource Science or Physics major only.

Second Major in Journalism (subject to timetable availability)

Year 1, Semester 1

> Units as per selected major

Year 1, Semester 2

> Units as per selected major

Years 2 and 3, Semester 1

KJB101	Digital Journalism
KJB120	Newswriting
KJB239	Journalism Ethics and Issues

Years 2 and 3, Semester 2

KFB205	Fashion and Style Journalism
KJB224	Feature Writing
KJB280	International Journalism

Recommended Majors:

> This second major is compatible with any Science major

Second Major in Life Science Technologies (compatible with any Life Science major)

Year 1, Semester 1

> Units as per selected major

Year 1, Semester 2

> Units as per selected major

Year 2, Semester 1

LQB388	Medical Physiology 1
	Plus either:
LQB383	Molecular and Cellular Regulation
	Or
LQB386	Microbial Structure and Function

Year 2, Semester 2

LQB488	Medical Physiology 2
	Or
LQB489	Plant Physiology and Cell Biology

Year 3, Semesters 1 and 2

	Select a total of THREE units from semester 1 and 2 units listed:
LQB582	Biomedical Research Technologies
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation
LQB588	Applied Medical Physiology

Year 3, Semester 2

LQB681	Biochemical Research Skills
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions
LQB686	Microbial Technology and Immunology

Recommended Majors:

This second major is compatible with any Life Science major (ie Biochemistry, Biotechnology, Microbiology)

Second Major in Management (subject to timetable availability)

Year 1, Semester 1

Units as per selected major

Year 1, Semester 2

Units as per selected major

Years 2 and 3, Semesters 1 and 2

BSB115	Management
MGB200	Leading Organisations
MGB210	Managing Operations
MGB223	Entrepreneurship and Innovation
MGB309	Strategic Management
	Plus either:
MGB310	Sustainability in A Changing Environment
	Or
MGB225	Intercultural Communication and Negotiation Skills

Recommended Majors:

This second major is compatible with any Science major

Second Major in Marketing (subject to timetable availability)

Year 1, Semester 1

Units as per selected major

Year 1, Semester 2

Units as per selected major

Years 2 and 3, Semesters 1 and 2

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
AMB240	Marketing Planning and Management
BSB126	Marketing
	Select TWO units from:
AMB202	Integrated Marketing Communication
AMB335	E-marketing Strategies
AMB336	International Marketing
AMB340	Services Marketing

Recommended Majors:

This second major is compatible with any Science major

Second Major in Mathematics (compatible with any Science major)

Please consult the Mathematics coordinator, Dr Dann Mallet (Email: dg.mallet@qut.edu.au) and the MA54 Bachelor of Mathematics course structure

Second Major in Microbiology (compatible with Life Science or Chemistry major only)

This second major comprises six units, in excess of those already included in your major, from Microbiology. You will need to ensure all necessary pre- and co-requisites are satisfied.

Recommended Majors:

This second major is compatible with Life Science or Chemistry major only.

Second Major Music (subject to timetable availability)

Year 1, Semester 1

Units as per selected major

Year 1, Semester 2

Units as per selected major

Years 2 and 3, Semester 1

KMB003	Sex Drugs Rock 'N' Roll
KMB004	World Music
KMB119	Music and Sound Production 1

Years 2 and 3, Semester 2

KMB107	Sound, Image, Text
KMB129	Music and Sound Production 2
KMB252	Multi-Platform Sound Design

Recommended Majors:

This second major is compatible with any Science major

Second Major in Nutrition (compatible with any Life Science major)

Year 1, Semester 1

Units as per selected major

Year 1, Semester 2

Units as per selected major

Years 2 and 3, Semester 1

LQB388	Medical Physiology 1
PUB474	Food Science

Years 2 and 3, Semester 2

LQB488	Medical Physiology 2
PUB201	Food and Nutrition
PUB405	Nutrition Science
LQB481	Biochemical Pathways and Metabolism
	OR
LQB484	Introduction to Genomics and Bioinformatics

All students should select LQB481 except Biochemistry major students who must select LQB484.

Recommended Majors:

This second major is compatible with Life Science majors

Second Major in Physics (compatible with Geoscience major only)

This second major comprises six units, in excess of those already included in your major, from Physics. You will need to ensure all necessary pre- and co-requisites are satisfied.

Recommended Majors:

This second major is compatible with Geoscience major only.

Second Major in Psychology (subject to timetable availability)

Year 1, Semester 1

Units as per selected major

Year 1, Semester 2

Units as per selected major

Years 2 and 3, Semester 1

PYB100	Foundation Psychology
PYB202	Social and Organisational Psychology
PYB304	Physiological Psychology

Years 2 and 3, Semester 2

PYB007	Interpersonal Processes and Skills
PYB203	Developmental Psychology
PYB204	Perception and Cognition

Recommended Majors:

This second major is compatible with any Science major

Second Major in Spatial Science (subject to timetable availability)

Year 1, Semester 1

Units as per selected major

Year 1, Semester 2

Units as per selected major

Years 2 and 3, Semester 1

UDB181	Geospatial Positioning and GPS
UDB281	Geographic Information Systems
UDB381	Geospatial Mapping
UDB387	Spatial and Land Information Management
	OR
UDB388	Spatial Analysis Practice

Please Note: UDB388 is a semester 2 unit.

Years 2 and 3, Semester 2

UDB182	Surveying
UDB282	Remote Sensing

Recommended Majors:

This second major is compatible with any Science majors

Potential Careers:

Actuary, Air Traffic Controller, Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Database Manager, Ecologist, Environmental Scientist, Exploration Geologist, Forensic Biologist, Forensic Chemist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist, Laboratory Technician (Chemistry), Marine Scientist, Mathematician, Medical Biotechnologist, Medical Physicist, Microbiologist, Mine Geologist, Molecular Biologist, Natural Resource Scientist, Pharmaceutical Research Scientist, Physicist, Plant Biotechnologist, Population Ecologist, Programmer, Quantitative Analyst, Research and Development Chemist, Statistician, Virologist.

Bachelor of Applied Science & Bachelor of Applied Science (Honours) - Dean's Scholars Accelerated Honours Program (SC01 + SC60)

Year offered: 2011
Admissions: Yes
CRICOS code: 003502J/009041G
Course duration (full-time): 3 Years (plus initial summer term)
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February: Fixed Closing Date- 26 November 2010.
International Entry: February: Fixed Closing Date- 26 November 2010. This course is only available to international students completing Year 12 in Australia.
QTAC code: 418042
Past rank cut-off: 97 plus successful questionnaire and interview. Please refer to Additional Entry Requirements.
Past OP cut-off: 2 plus successful questionnaire and interview. Please refer to Additional Entry Requirements.
Assumed knowledge: English (4, SA) and Maths B (4, VHA) plus two (2) of Biological Science, Chemistry, Earth Science, Maths C or Physics (4, VHA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384 [BAppSc 288 cp and BAppSc(Hons) 96 cp]
Course coordinator: Mr Richard Thomas
Discipline coordinator: Associate Professor John Aaskov (Microbiology, Biochemistry, Biotechnology Majors); Dr Madeleine Schultz (Chemistry Major); Dr Konstantin Momot (Physics major)
Campus: Gardens Point

Overview

The Bachelor of Applied Science Dean's Scholars Accelerated Honours Program is an accelerated program designed specifically for outstanding current, or returning from a gap year, Year 12 students who completed their Year 12 education in Australia. It also offers an accelerated pathway that enables students to complete both the Bachelor of Applied Science and the Bachelor of Applied Science (Honours) courses in just three years. A scholarship is offered to students in the Bachelor of Applied Science Dean's Scholars Accelerated Honours Program. Students are accepted into the program on the basis of outstanding academic ability and an interest in scientific research.

Additional Entry Requirements

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

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

Professional Recognition

As a graduate of the Bachelor of Applied Science Dean's Scholars Accelerated Honours Program you will qualify for professional recognition and employment in fields relevant to the specialisations that you have chosen. It is expected that many Dean's Scholars will proceed to Doctor of Philosophy studies.

Financial support

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

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

Fixed Closing Date

Applications for this program will close on **26 November, 2010**.

Who should apply?

The program is open to applicants currently undertaking Year 12 studies at a secondary school, and who achieve an OP 1 or 2 (or interstate equivalent). Applicants must be outstanding current, or returning from a gap year, Year 12 students who completed their Year 12 education in Australia.

Deferment

QUT's deferment policy does not apply to this course.

Course Structure

As a student in the Dean's Scholars Accelerated Honours Program you will choose one of the following nine majors. You will also choose a co-major to accompany your major area of study. The co-major may be one of the other majors, or it could be one of the co-majors listed below:

Majors: Biochemistry, Biotechnology, Chemistry, Ecology, Environmental Science, Forensic Science, Geoscience, Microbiology, Physics.

Co-majors: Applied Geology, Astrophysics, Biodiversity, Chemistry for Industry, Life Science Technologies.

To allow the Dean's Scholars Program to be completed in an accelerated format some changes are made to the first year of the standard Bachelor of Applied Science (SC01) degree. The core units normally studied in first year are replaced by an enriched course of study which includes the following units:

SCB301 Science for Dean's Scholars

An intensive preparatory program immediately preceding the commencement of the first semester. This preparatory program commences mid-January and requires attendance

for approximately 18 hours per week for six weeks.

SCB303 Tutorial Program for Dean's Scholars

An individually-tailored tutorial program during the first semester, under the guidance of an academic mentor. This unit is designed in a consultative process involving the student, the academic mentor, and the Dean.

SCB401 Research Methods for Dean's Scholars

The unit allows research skills to be developed through a literature review, experimental design considerations, research proposal formulation and writing, and the presentation of a research proposal.

SCB501 Research Project for Dean's Scholars

An individually tailored research project is carried out under the supervision of a research mentor.

Honours Program

Following the successful completion of the coursework and your initial research project in the first two years of the program, you will then commence the Bachelor of Applied Science (Honours) course. The Honours program continues the study of your chosen scientific major and also provides the opportunity to undertake a large research project. The Honours degree provides an excellent preparation to continue onto postgraduate research.

Note:

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

OP Guarantee

The OP Guarantee does not apply to this course

Further Information

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

Course Coordinator
Dr Dann Mallet
Phone: +61 7 3138 2354
Email: dg.mallet@qut.edu.au

Discipline Coordinators

Life Sciences Major:
Associate Professor John Aaskov
Phone: +61 7 3138 2144
Email: j.aaskov@qut.edu.au

Natural Resource Sciences Major:
Associate Professor David Gust
Phone: +61 7 3138 2217
Email: d.gust@qut.edu.au

Physical & Chemical Sciences Major:
Dr John McMurtrie
Phone: +61 7 3138 1220

Email: j.mcmurtrie@qut.edu.au

Course structure - Majors in Biochemistry, Biotechnology and Microbiology

Year 1, Summer Term (24 cp)	
	Dean's Scholars Program enrichment unit:
SCB301	Science for Dean's Scholars

Year 1, Semester 1 (60 cp)	
	Dean's Scholars Program enrichment unit:
SCB303	Tutorial Program for Dean's Scholars
	Normal BAppSc and BAppSc(Hons) units: BAppSc Coursework (48 cp)

Year 1, Semester 2 (60 cp)	
	Dean's Scholars Program enrichment unit:
SCB401	Research Methods for Dean's Scholars
	Normal BAppSc and BAppSc(Hons) units: BAppSc Coursework (48 cp)

Year 2, Semester 1 (72 cp)	
	Dean's Scholars Program enrichment unit:
SCB501-1	Research Project for Dean's Scholars
SCB501-2	Research Project for Dean's Scholars
	Note: It may be possible/required to take SCB501-2 in the following semester.
	Normal BAppSc and BAppSc(Hons) units: BAppSc Coursework (48 cp)

Year 2, Semester 2 (60 cp)	
	Dean's Scholars Program enrichment unit: Elective (12 cp)
	Normal BAppSc and BAppSc(Hons) units: BAppSc Coursework (48 cp)

Year 3, Semester 1 (60 cp) and Semester 2 (48 cp)	
	Normal BAppSc and BAppSc(Hons) units: BAppSc + BAppSc(Hons) Coursework (12cp + 36 cp respectively)
	Normal BAppSc and BAppSc(Hons) units: BAppSc(Hons) Research (60 cp)

Course structure - Major in Chemistry

Year 1, Summer Term (24 cp)	
	Dean's Scholars Program enrichment unit:
SCB301	Science for Dean's Scholars

Year 1, Semester 1 (60 cp)	
	Dean's Scholars Program enrichment unit:
SCB303	Tutorial Program for Dean's Scholars
	Normal BAppSc and BAppSc(Hons) units: BAppSc Coursework (48 cp)

Year 1, Semester 2 (60 cp)	
	Dean's Scholars Program enrichment unit:

Elective (12 cp)

Normal BAppSc and BAppSc(Hons) units:
BAppSc Coursework (48 cp)

Year 2, Semester 1 (60 cp)

Dean's Scholars Program enrichment unit:

SCB401   Research Methods for Dean's Scholars

Normal BAppSc and BAppSc(Hons) units:
BAppSc Coursework (48 cp)

Year 2, Semester 2 (72 cp)

Dean's Scholars Program enrichment unit:

SCB501-1   Research Project for Dean's Scholars

SCB501-2   Research Project for Dean's Scholars

Note: It may be possible/required to take
SCB501-2 in the following semester.

Normal BAppSc and BAppSc(Hons) units:
BAppSc Coursework (48 cp)

Year 3, Semester 1 (60 cp) and Semester 2 (48 cp)

Normal BAppSc and BAppSc(Hons) units:
BAppSc + BAppSc(Hons) Coursework (12 cp +
36 cp respectively)

Normal BAppSc and BAppSc(Hons) units:
BAppSc(Hons) Research (60 cp)

Course structure - Major in Physics

Year 1, Summer Term (24 cp)

Dean's Scholars Program enrichment unit:

SCB301   Science for Dean's Scholars

Year 1, Semester 1 (60 cp)

Dean's Scholars Program enrichment unit:

SCB303   Tutorial Program for Dean's Scholars

Normal BAppSc and BAppSc(Hons) units:
BAppSc Coursework (48 cp)

Year 1, Semester 2 (60 cp)

Dean's Scholars Program enrichment unit:
Elective (12 cp)

Normal BAppSc and BAppSc(Hons) units:
BAppSc Coursework (48 cp)

Year 2, Semester 1 (60 cp)

Dean's Scholars Program enrichment unit
(approved Physics elective)

Normal BAppSc and BAppSc(Hons) units:
BAppSc Coursework (48 cp)

Year 2, Semester 2 (72 cp)

Dean's Scholars Program enrichment unit:

SCB501-1   Research Project for Dean's Scholars

SCB501-2   Research Project for Dean's Scholars

Note: It may be possible/required to take
SCB501-2 in the following semester.

Normal BAppSc and BAppSc(Hons) units:

BAppSc Coursework (24 cp)

Year 3, Semester 1 (60 cp) and Semester 2 (48 cp)

Normal BAppSc and BAppSc(Hons) units:
BAppSc + BAppSc(Hons) Coursework (12 cp +
36 cp respectively)

Normal BAppSc and BAppSc(Hons) units:
BAppSc(Hons) Research (60 cp)

Potential Careers:

Actuary, Air Traffic Controller, Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Cell Biologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Database Manager, Ecologist, Environmental Scientist, Exploration Geologist, Forensic Chemist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist, Laboratory Technician (Chemistry), Marine Scientist, Mathematician, Medical Biotechnologist, Medical Physicist, Microbiologist, Mine Geologist, Molecular Biologist, Natural Resource Scientist, Pharmaceutical Research Scientist, Physicist, Plant Biotechnologist, Population Ecologist, Programmer, Quantitative Analyst, Research and Development Chemist, Statistician, Virologist.

Bachelor of Applied Science/Bachelor of Mathematics (SC20)

Year offered: 2011
Admissions: Yes
CRICOS code: 049434C
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $11,875 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418712
Past rank cut-off: 81
Past OP cut-off: 10
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr Perry Hartfield (Science Major); Professor Graeme Pettet (Mathematics Major)
Campus: Gardens Point

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.

Career Outcomes

Graduates find work in a diverse range of exciting fields. Some examples include:
• natural resources: measuring fish populations and predicting sustainable fishing limits
• agriculture: from climate modelling to the interaction between crop yields and prices, harvest schedules and environmental impacts
• genetics: including gene sequencing and quantitative genetics
• chemistry and biochemistry: operations research and statistical techniques to improve workflow processes of chemical laboratories. Scientific computation and visualisation related to research areas such as drug design using combinatorial chemistry

• infection and disease control: using statistics and mathematical modelling
• bioinformatics: analysing and modelling data arising in molecular biology, genome sequencing and gene networks
• physical measuring and imaging techniques: measuring and modelling using applied and computational mathematics.

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.

Recommended Study

Maths C and knowledge of at least one of the sciences. For the majors in biochemistry, biotechnology, forensic science, and microbiology - Biological Science and Chemistry are recommended.

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 on deferment.

Further Information

For further information about this course please contact:

Science Coordinator

Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au
Alternative phone contact: +61 7 3138 2782
Alternative email: enquiry.scitech@qut.edu.au

Mathematics Coordinator

Professor Graeme Pettet
Phone: +61 7 3138 5238
Email: g.pettet@qut.edu.au

Course structure

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:

Students must complete the following Level 1 Mathematics units:

MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus

MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1
NOTE:	MAB120 is for students who do not have an exit assessment of at least Sound Achievement in four semesters of both Senior Mathematics B and Senior Mathematics C (or equivalent).
	Students with Sound Achievement in both Senior Mathematics B and C take a level 2 Mathematics unit option instead of MAB120.
	Students must complete the following Level 1 Science Foundation units:
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	In addition, students are required to complete any mandatory units - and should complete all recommended units, specified for the science major selected.

Level 2 and 3 Mathematics Units:

At least 120 credit points (10 twelve credit point units) must be taken from Level 2 and Level 3 Mathematics units with at least 48 credit points (4 twelve credit point units) from Level 3 Mathematics units:

Students must complete:

| MAB311 | Advanced Calculus |
| MAB312 | Linear Algebra |

Level 2 and 3 Science Units:

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:

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.

Science Units: Biochemistry Major (Mandatory units)

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	TWO Mathematics Units

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
	TWO Mathematics units

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Science Elective unit
	TWO Mathematics units

Year 2, Semester 2

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
	TWO Mathematics units

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation
	TWO Mathematics units

Year 3, Semester 2

LQB481	Biochemical Pathways and Metabolism
LQB483	Molecular Biology Techniques
	TWO Mathematics units

Year 4, Semester 1

LQB581	Functional Biochemistry
LQB582	Biomedical Research Technologies
	TWO Mathematics units

Year 4, Semester 2

LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering
	TWO Mathematics units

Science Units: Biotechnology Major (Mandatory units)

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	TWO Mathematics units

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
	TWO Mathematics units

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Science Elective unit
	TWO Mathematics units

Year 2, Semester 2

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
	TWO Mathematics units

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation
	TWO Mathematics units

Year 3, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
	TWO Mathematics units

Year 4, Semester 1

	TWO units from:
LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation
	TWO Mathematics units

Year 4, Semester 2

	TWO units from:
LQB682	Protein Biochemistry and Bioengineering
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions
	TWO Mathematics units

Science Units: Chemistry Major (Mandatory units)

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	TWO Mathematics units

Year 1, Semester 2 (Chemistry Pre-Major Strand)

SCB121	Chemistry 2
SCB123	Physical Science Applications
	TWO Mathematics units

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Science Elective unit
	TWO Mathematics units

Year 2, Semester 2

SCB131	Experimental Chemistry
	Science Elective unit
	TWO Mathematics units

Year 3, Semester 1

| PQB312 | Analytical Chemistry For Scientists and Technologists |

| PQB331 | Structure and Bonding |
| | TWO Mathematics units |

Year 3, Semester 2

PQB401	Reaction Kinetics, Thermodynamics and Mechanisms
PQB442	Chemical Spectroscopy
	TWO Mathematics units

Year 4, Semester 1

PQB502	Advanced Physical Chemistry
PQB531	Organic Mechanisms and Synthesis
	TWO Mathematics units

Year 4, Semester 2

PQB631	Advanced Inorganic Chemistry
PQB642	Chemical Research
	TWO Mathematics units

Science Units: Ecology Major (Mandatory units)

Year 1, Semester 1

SCB111	Chemistry 1
	TWO Mathematics units
SCB112	Cellular Basis of Life

Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)

SCB120	Plant and Animal Physiology
SCB122	Cell and Molecular Biology
	TWO Mathematics units

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Science Elective unit
	TWO Mathematics units

Year 2, Semester 2

NQB201	Planet Earth
NQB202	History of Life on Earth
	TWO Mathematics units

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology
	TWO Mathematics units

Year 3, Semester 2

NQB421	Experimental Design
NQB422	Genetics and Evolution
	TWO Mathematics units

Year 4, Semester 1

NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management
	TWO Mathematics units

Year 4, Semester 2

NQB622	Conservation Biology
NQB623	Ecological Systems
	TWO Mathematics units

Science Units: Environmental Science Major (Mandatory units)

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	TWO Mathematics units

Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
	TWO Mathematics units

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB123	Physical Science Applications
	TWO Mathematics units

Year 2, Semester 2

NQB202	History of Life on Earth
	Science Elective unit
	TWO Mathematics units

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology
	TWO Mathematics units

Year 3, Semester 2

NQB403	Soils and the Environment
NQB421	Experimental Design
	TWO Mathematics units

Year 4, Semester 1

NQB501	Environmental Modelling
NQB502	Field Methods in Natural Resource Sciences
	TWO Mathematics units

Year 4, Semester 2

NQB601	Sustainable Environmental Management
NQB602	Environmental Chemistry
	TWO Mathematics units

Science Units: Forensic Science Major (Mandatory units)

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	TWO Mathematics units

Year 1, Semester 2 (Forensic Science Pre-Major Strand)

SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
	TWO Mathematics units

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Science Elective unit
	TWO Mathematics units

Year 2, Semester 2

SCB123	Physical Science Applications
SCB131	Experimental Chemistry
	TWO Mathematics units

Year 3, Semester 1

LQB383	Molecular and Cellular Regulation
SCB384	Forensic Sciences - From Crime Scene to Court
	TWO Mathematics units

Year 3, Semester 2

JSB979	Forensic Scientific Evidence
PQB312	Analytical Chemistry For Scientists and Technologists
	TWO Mathematics units

Year 4, Semester 1

PQB513	Instrumental Analysis
PQB584	Forensic Physical Evidence
	TWO Mathematics units

Year 4, Semester 2

LQB680	Forensic DNA Profiling
PQB684	Forensic Analysis
	TWO Mathematics units

Science Units: Geoscience Major (Mandatory units)

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	TWO Mathematics units

Year 1, Semester 2 (Geoscience Pre-Major Strand)

| NQB201 | Planet Earth |

| SCB123 | Physical Science Applications |
| | TWO Mathematics units |

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Science Elective unit
	TWO Mathematics units

Year 2, Semester 2

NQB202	History of Life on Earth
SCB222	Exploration of the Universe
	TWO Mathematics units

Year 3, Semester 1

NQB311	Mineralogy
NQB314	Sedimentary Geology
	TWO Mathematics units

Year 3, Semester 2

NQB411	Petrology of Igneous and Metamorphic Rocks
NQB412	Structural Geology and Field Methods
	TWO Mathematics units

Year 4, Semester 1

NQB502	Field Methods in Natural Resource Sciences
NQB513	Geophysics
	TWO Mathematics units

Year 4, Semester 2

NQB615	Geochemistry
	Plus ONE of
NQB612	Basin Analysis and Petroleum Geology
NQB613	Plate Tectonics
NQB614	Groundwater Systems
	TWO Mathematics units

Science Units: Microbiology Major (Mandatory units)

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	TWO Mathematics units

Year 1, Semester 2 (Life Sciences Pre-Major Strand)

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
	TWO Mathematics units

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Science Elective unit
	TWO Mathematics units

Year 2, Semester 2

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
	TWO Mathematics units

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB386	Microbial Structure and Function
	TWO Mathematics units

Year 3, Semester 2

LQB483	Molecular Biology Techniques
LQB486	Clinical Microbiology 1
	TWO Mathematics units

Year 4, Semester 1

LQB586	Clinical Microbiology 2
LQB587	Applied Microbiology 1: Water, Air and Soil
	TWO Mathematics units

Year 4, Semester 2

LQB686	Microbial Technology and Immunology
LQB687	Applied Microbiology 2: Food and Quality Assurance
	TWO Mathematics units

Science Units: Physics Major (Mandatory units)

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
	TWO Mathematics units

Year 1, Semester 2 (Physics Pre-Major Strand)

PQB250	Mechanics and Electromagnetism
	Science Elective unit
	TWO Mathematics units

Year 2, Semester 1

SCB112	Cellular Basis of Life
	Science Elective unit
	TWO Mathematics units

Year 2, Semester 2

PQB251	Waves and Optics
	Science Elective unit
	TWO Mathematics units

Year 3, Semester 1

PQB350	Thermodynamics of Solids and Gases
	Level 2 Science Elective unit
	TWO Mathematics units

Year 3, Semester 2	
PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation
	TWO Mathematics units

Year 4, Semester 1	
PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques
	TWO Mathematics units

Year 4, Semester 2	
PQB650	Advanced Theoretical Physics
PQB651	Experimental Physics
	TWO Mathematics units

Mathematics Component (Mandatory units) (WITH Maths C)

For Students with at least Sound Achievement in both Senior Mathematics B and C

Year 1, Semester 1	
MAB101	Statistical Data Analysis 1
MAB121	Calculus and Differential Equations
	Plus TWO units selected according to the Science major requirements

Year 1, Semester 2	
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
	Plus TWO units selected according to the Science major requirements

Year 2, Semester 1	
MAB220	Computational Mathematics 1
MAB311	Advanced Calculus
	Plus TWO units selected according to the Science major requirements

Year 2, Semester 2	
	TWO Mathematics unit
	Plus TWO units selected according to the Science major requirements

Year 3, Semester 1	
MAB312	Linear Algebra
	ONE Mathematics unit
	Plus TWO units selected according to the Science major requirements

Year 3, Semester 2	
	TWO Mathematics units
	Plus TWO units selected according to the Science major requirements

Year 4, Semester 1	
	TWO Level 3 Mathematics units
	Plus TWO units selected according to the Science major requirements

Year 4, Semester 2	
	TWO Level 3 Mathematics units
	Plus TWO units selected according to the Science major requirements

Mathematics Component (Mandatory units) (WITHOUT Maths C)

For Students with Sound Achievement or Better in Senior Mathematics B Only

Year 1, Semester 1	
MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus
	Plus TWO unit selected according to the Science major

Year 1, Semester 2	
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
	Plus TWO unit selected according to the Science major

Year 2, Semester 1	
MAB220	Computational Mathematics 1
MAB311	Advanced Calculus
	Plus TWO units selected according to the Science major

Year 2, Semester 2	
MAB210	Statistical Modelling 1
	ONE Mathematics unit
	Plus TWO unit selected according to the Science major

Year 3, Semester 1	
MAB312	Linear Algebra
	ONE Mathematics unit
	Plus TWO units selected according to the Science major

Year 3, Semester 2	
	TWO Mathematics units
	Plus TWO units selected according to the Science major

Year 4, Semester 1	
	TWO Level 3 Mathematics units
	Plus TWO units selected according to the Science major

Year 4, Semester 2

TWO Level 3 Mathematics units

Plus TWO units selected according to the Science major

Mathematics Units

Level 1

MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1

Level 2

MAB311	Advanced Calculus
MAB312	Linear Algebra
MAB313	Mathematics of Finance
MAB314	Statistical Modelling 2
MAB315	Operations Research 2
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB420	Computational Mathematics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation

Level 3

You must complete at least four units from:

MAB521	Applied Mathematics 3
MAB522	Computational Mathematics 3
MAB524	Statistical Inference
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB536	Time Series Analysis
MAB613	Partial Differential Equations
MAB623	Financial Mathematics
MAB624	Applied Statistics 3
MAB625	Operations Research 3B
MAB640	Industry Project
MAB672	Advanced Mathematical Modelling

Science Elective Units

The number of elective units will depend upon the major selected. These elective units can be selected from Faculty of Science and Technology units - make sure you meet any prerequisites and don't take an incompatible unit. Some majors include alternative units and you could select an additional unit(s) from these.

Information on some possible Science elective units.

NQB201	Planet Earth
NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
SCB131	Experimental Chemistry
SCB222	Exploration of the Universe
NOTE:	Other elective units may be found in the co-majors listed in the SC01 Course Summary Sheet.

Level 2 or 3 Elective Unit Suggestions for Physics Major

PQB360	Global Energy Balance and Climate Change
PQB460	Astrophysics 1
PQB660	Astrophysics 2

Potential Careers:

Actuary, Analytical Chemist, Astrophysicist, Biochemist, Bioinformatician, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Database Manager, Ecologist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist, Laboratory Technician (Chemistry), Marine Scientist, Mathematician, Medical Biotechnologist, Medical Physicist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Physicist, Plant Biotechnologist, Population Ecologist, Programmer, Quantitative Analyst, Statistician, Virologist.

Bachelor of Biomedical Science (SC40)

Year offered: 2011
Admissions: Yes
CRICOS code: 052768K
Course duration (full-time): 3 Years
Course duration (part-time): 6 Years
Domestic fees (indicative): 2011: CSP $2,388 (indicative) per semester
International Fees (indicative): 2011: $12,125 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 418401
Past rank cut-off: 79
Past OP cut-off: 11
OP Guarantee: Yes
Assumed knowledge: English (4, SA), Maths B (4, SA) and Chemistry (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 288
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Laura Gregory
Campus: Gardens Point

Overview

The Bachelor of Biomedical Science is a highly relevant and appropriate qualification for entry into postgraduate medicine studies. You will study a winning blend of essential science, humanities and health-related topics to give you the best grounding possible for a career in the medical profession.

Why Choose this Course

QUT's real-world focus and practical approach to teaching in all degree qualifications has resulted in science graduates consistently gaining entry to postgraduate medicine studies from our courses. This course allows you to keep your options open by offering a range of alternative career paths. In the second or third year of your course you may apply for postgraduate medicine studies by sitting the entrance exam (GAMSAT).

Career Outcomes

This course provides a solid foundation for the areas tested in GAMSAT. Many opportunities are also available for postgraduate study in health and science, including honours and postgraduate qualifications leading to careers in medical research. The Bachelor of Biomedical Science is also designed for students seeking a science-based qualification that will lead to employment opportunities in medical biotechnology, medical microbiology and clinical biochemistry fields.

Professional Recognition

Depending on the units selected in the final year of the course, graduates will be eligible for membership into one or more of the following organisations: Australian Association of Clinical Biochemists (AACB), AusBiotech Ltd, Australian Society for Microbiology (ASM).

Your Course

Year 1

In the first year of the course you will undertake units covering chemistry, physics, anatomy, and cell biology, providing a solid knowledge base for GAMSAT. With QUT's practical approach to teaching, you will not only learn the theory, but gain a wealth of practical experience in state-of-the-art laboratories. You will also gain an introduction to the essential communication skills required for a career in the health and medical professions.

Year 2

Units in the second year combine more advanced studies in cell biology with units in physiology, biochemistry, microbiology and human rights and ethics. If you wish to proceed to postgraduate medicine studies, you will have the opportunity to attend information sessions on the GAMSAT exam.

Year 3

You will have some flexibility in subject choices to allow you to tailor the qualification to suit your desired career outcomes. You may choose to take units in medical biotechnology, clinical biochemistry, or microbiology (including parasitology) and there are also opportunities to complement your scientific studies with topics such as psychology, exercise physiology, indigenous issues or ethical issues related to gene technology.

Recommended Study

Biological 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 on deferment.

Further Information

For further information about the course, please contact:

Course Coordinator
Dr Laura Gregory
Phone: +61 7 3138 1281
Email: l.gregory@qut.edu.au

Course structure - Full-time

Year 1, Semester 1	
MAB141	Mathematics and Statistics for Medical Science
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE elective to be chosen from the following list:
KWB101	Introduction to Creative Writing
PYB007	Interpersonal Processes and Skills

Or another elective to be approved by the course coordinator

Year 1, Semester 2

LSB255	Human Anatomy
PCB150	Physics 1H
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function
LQB388	Medical Physiology 1
LSB325	Biochemistry

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB486	Clinical Microbiology 1
LSB425	Quantitative Medical Science
SWB105	Introduction to Human Rights and Ethics

Year 3, Semester 1

LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB586	Clinical Microbiology 2
LSB525	Clinical Biochemistry 1

Year 3, Semester 2

LQB488	Medical Physiology 2
LQB684	Medical Biotechnology
LSB625	Clinical Biochemistry 2
LSB658	Clinical Physiology

NOTE:

Students may substitute ONE unit from EACH of Year 3/Semesters 1 and 2 (or Year 2/Semester 2) with an approved pair of electives from one stream only from the following list, providing that a MATCHING SET of science units is deleted: (ie. [a] LQB583 and LQB684 OR [b] LSB525 and LSB625 OR [c] LQB486 and LQB586). Students may choose to enrol in SCB500 with course coordinator approval based on the completion of 144 credit points of SC40 units. Students may then choose any unit from this list to complete the pair of electives. The elective options are subject to timetabling and campus offerings.

PSYCHOLOGY AND COUNSELLING

Semester 1:

PYB100	Foundation Psychology

Semester 2:

PYB208	Counselling Theory and Practice 1

PUBLIC HEALTH

Semester 1:

PUB104	Australian Health Care Systems
	or
PUB326	Epidemiology

Semester 2:

PUB251	Contemporary Public Health
	or
PUB436	Evidence Based Practice

EXERCISE SCIENCE FOR PREVENTIVE MEDICINE

Semester 1:

HMB271	Foundations of Motor Control, Learning and Development

Semester 2:

HMB273	Exercise Physiology 1

INDIGENOUS PERSPECTIVES

Semester 1:

EDB038	Indigenous Australian Culture Studies

Semester 2:

EDB040	Indigenous Knowledge: Research Ethics and Protocols

HEALTH AND SCIENCES

ECG COURSE	ECG Analysis and Interpretation Course is offered at QUT Health Clinics, Kelvin Grove or UQ Sport, St Lucia

Semester 1:

PUB326	Epidemiology
	Or
LQB588	Applied Medical Physiology
	Or
LSB384	Pharmacology For Health Professionals

Semester 2:

LQB686	Microbial Technology and Immunology
	Or
LSB384	Pharmacology For Health Professionals

Course structure - Part-time

Year 1, Semester 1

MAB141	Mathematics and Statistics for Medical Science
SCB112	Cellular Basis of Life

Year 1, Semester 2

LSB255	Human Anatomy
SCB122	Cell and Molecular Biology

Year 2, Semester 1

SCB111	Chemistry 1
	Plus ONE elective to be chosen from the following list:
KWB101	Introduction to Creative Writing

PYB007   Interpersonal Processes and Skills

Or another elective to be approved by the course coordinator

Potential Careers:

Laboratory Assistant, Laboratory Technician, Medicine (after further study), Research Assistant.

Year 2, Semester 2

PCB150   Physics 1H

SCB121   Chemistry 2

Year 3, Semester 1

LQB383   Molecular and Cellular Regulation

LSB325   Biochemistry

Year 3, Semester 2

LQB483   Molecular Biology Techniques

LSB425   Quantitative Medical Science

Year 4, Semester 1

LQB386   Microbial Structure and Function

LQB388   Medical Physiology 1

Year 4, Semester 2

LQB486   Clinical Microbiology 1

SWB105   Introduction to Human Rights and Ethics

Year 5, Semester 1

LQB584   Medical Cell Biology

LQB586   Clinical Microbiology 2

Year 5, Semester 2

LQB488   Medical Physiology 2

LSB658   Clinical Physiology

Year 6, Semester 1

LQB583   Genetic Research Technology

LSB525   Clinical Biochemistry 1

Year 6, Semester 2

LQB684   Medical Biotechnology

LSB625   Clinical Biochemistry 2

Note for Years 5 and 6:

Students may substitute ONE unit from EACH of Year 4 Semester 2 and Year 5 Semester 1, OR Year 6 Semester 1 and Year 6 Semester 2 with an approved pair of electives from one stream only from the list which appears under the Note for Year 3 in the Full-time course structure, providing that a MATCHING SET of science units is deleted: (eg [a] LQB583 and LQB684 OR [b] LSB525 and LSB625 OR [c] LQB486 and LQB586). Students may choose to enrol in SCB500 with course coordinator approval based on the completion of 144 credit points of SC40 units. Students may then choose any unit from this list to complete the pair of electives. The elective options are subject to timetabling and campus offerings.

Bachelor of Pharmacy (SC45)

Year offered: 2011
Admissions: Yes
CRICOS code: 055902G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,458 (indicative) per semester
International Fees (indicative): 2011: $11,875 (indicative) per semester
Domestic Entry: February
International Entry: February - IELTS of 7.0 with no sub-score less than 7.0 (Quota applies)
QTAC code: 418512
Past rank cut-off: 92
Past OP cut-off: 5
Assumed knowledge: English (4, SA), Maths B (4, SA) and Chemistry (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Fraser Ross
Campus: Gardens Point

Overview

QUT's Bachelor of Pharmacy has been designed in close consultation with the pharmacy profession to capture the latest practices and emerging trends in community and hospital pharmacy. Pharmacists play an important role in the health-care sector by dispensing medications and counselling patients on their appropriate use.

Why Choose This Course

This course is continually updated in close consultation with senior representatives of the pharmacy profession. The inclusion of essential pharmacy and business management skills will help you to operate effectively in your chosen setting. QUT's small class sizes and comprehensive modern facilities ensure a high-quality educational experience.

Career Outcomes

Pharmacists are employed in a range of settings including community pharmacies, hospitals, the pharmaceutical industry and in drug regulatory and research roles. Community pharmacists are often the first health professionals contacted for medical advice and play a major role as health providers and educators for the general public. Hospital pharmacists work closely with doctors in a patient-care role, conduct and manage clinical drug trials, evaluate newly released medicines and prepare medicines for patients requiring specialised treatments.

Professional Recognition

Following graduation, approximately 12 months of pre-registration training performed under the supervision of a registered pharmacist is required to meet the registration requirements of the Pharmacists Board of Queensland.

Graduates will be eligible for membership of a number of professional associations, including the Pharmaceutical Society of Australia, the Pharmacy Guild and the Society of Hospital Pharmacists of Australia.

English Language Skills (Applicable to health practitioners applying for registration)
All applicants must be able to demonstrate English language skills at IELTS academic level 7.5 or equivalent. Test results from examinations will generally need to be obtained within two years prior to applying for registration.

Other Course Requirements

You must be vaccinated for Hepatitis B and provide a post-vaccination pathological report or similar certification showing proof of immunity prior to undertaking your first clinical placement.

Blue card

A current blue card authorised with QUT may be required prior to commencing the clinical placement components of this course. For more information visit Blue Card, and ensure that you allow adequate time for processing your application and issuing of the card in order to avoid clinical experience delays.

Your Course

Year 1

You will undertake theoretical and practical studies covering chemistry, maths, anatomy and biology. You will begin practising your communication skills in QUT's pharmacy counselling room, which operates like a real pharmacy counter. You will gain an understanding of the operations of a community pharmacy, including prescription processing, product labelling, and the therapeutic use of over-the-counter (OTC) medications. You will also gain an introduction to retailing skills.

Year 2

You will undertake your first clinical placement in a real community pharmacy environment. At QUT you will expand your counselling skills and increase your knowledge regarding a range of OTC and prescription medications used to treat cardiovascular and gastrointestinal tract disorders. You will learn how to perform pharmaceutical calculations, prepare basic pharmaceutical products and gain a deeper understanding of how drugs interact with the human body, producing their therapeutic and sometimes adverse effects.

Year 3

You will proceed to topics which provide vital information to health professionals regarding the optimal choice of drug therapy for individual patients. There is an emphasis on drugs used to treat central nervous system disorders, in addition to drugs prescribed for cancer and infectious diseases. You will learn how to prepare more complex product formulations and spend three hours per week in a community or hospital pharmacy followed by a one-week full-time clinical placement in each semester.

Year 4

You will study further specialised topics including

pharmacotherapeutics, epidemiology and pharmacoeconomics. There is an emphasis on the integration and application of your studies into current pharmacy practice. A range of guest lecturers will also present material regarding social issues and current practices in women's and Indigenous health.

Recommended Study

Biological Science.

OP Guarantee

The OP Guarantee does not apply to this course.

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 on deferment.

Further Information

For further information about this course, pleaes contact:

Course Coordinator

Associate Professor Fraser Ross
Phone: +61 7 3138 2502
Email: fb.ross@qut.edu.au

Course structure

Year 1, Semester 1

MAB141	Mathematics and Statistics for Medical Science
PYB007	Interpersonal Processes and Skills
SCB112	Cellular Basis of Life
SCB113	Chemistry for Health and Medical Science

Year 1, Semester 2

LSB255	Human Anatomy
SCB122	Cell and Molecular Biology
SCB131	Experimental Chemistry
SCB208	Introduction to Pharmacy Practice

Year 2, Semester 1

LQB388	Medical Physiology 1
LSB325	Biochemistry
SCB308	Pharmacy Practice 1
SCB338	Pharmaceutical Chemistry and Pharmacology 1

Year 2, Semester 2

LQB488	Medical Physiology 2
SCB408	Pharmacy Practice 2
SCB428	Pharmacokinetics
SCB438	Medicinal Chemistry and Pharmacology 2

Year 3, Semester 1

LQB386	Microbial Structure and Function
SCB508	Pharmacy Practice 3
SCB528	Pharmaceutics 1
SCB538	Pharmacology 3

Year 3, Semester 2

SCB608	Pharmacy Practice 4
SCB628	Pharmaceutics 2
SCB638	Pharmacogenomics and Drug Metabolism
SCB648	Pharmacotherapeutics 1
NOTES:	- Progression to Year 4 cannot occur before the successful completion of Years 1, 2 and 3.
	- Year 4 requires enrolment in all four (4) units each semester.

Year 4, Semester 1

SCB708	Pharmacy Practice 5
SCB748	Pharmacotherapeutics 2
SCB758	Pharmacy Management 1
SCB768	Professional Placements 1

Year 4, Semester 2

SCB808	Pharmacy Practice 6
SCB848	Pharmacotherapeutics 3
SCB858	Pharmacy Management 2
SCB868	Professional Placements 2

Potential Careers:

Community Pharmacist, Hospital Pharmacist, Pharmaceutical Research Scientist.

Bachelor of Applied Science (Honours) (SC60)

Year offered: 2011
Admissions: Yes
CRICOS code: 009041G
Course duration (full-time): 1 Year
Course duration (part-time): 2 Years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,375 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Terry Walsh
Discipline coordinator: Dr David Hurwood (Biogeosciences majors); Dr John McMurtrie (Chemistry Major); Associate Professor Terry Walsh (Life Science Major); Dr Troy Farrell (Mathematics Major); Dr Esa Jaatinen (Physics Major)
Campus: Gardens Point

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.

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.

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.

Career Outcomes

The Bachelor of Applied Science (Honours) program is designed for graduates who have excelled in their degree from a recognised tertiary institution, with major studies in a relevant discipline. The course not only enhances your professional employability in your chosen discipline but also prepares you for a research career. The Honours qualification opens a direct pathway to postgraduate studies, qualifying you for entry into Doctor of Philosophy and Master of Applied Science courses.

Professional Recognition

Relevant scientific professional bodies include Australasian Association of Clinical Biochemists, Australasian Institute of Mining and Metallurgy, AusBiotech Ltd, Australian Institute of Geoscientists, Australian Institute of Physics, Australian Mathematical Society, Australian Society for Biochemistry and Molecular Biology, Australian Society for Medical Research, Australian Society for Microbiology, Australian Society for Operations Research, Ecological Society of Australia, Geological Society of Australia, Royal Australian Chemical Institute, and Statistical Society of Australia. Eligibility for membership is based on the combination of units undertaken in the degree and the Bachelor of Applied Science course that underpins it.

Course Structure

The Honours year comprises coursework and a major research project supervised by QUT staff, in some cases in conjunction with local industry. Majors are offered in chemistry, ecology, environmental science, geology, life science, mathematics and physics.

Further Information

Course Coordinator
Associate Professor Peter Mather
Phone: +61 7 3138 1737
Email: p.mather@qut.edu.au

Discipline Coordinators

Chemistry
Dr John McMurtrie
Phone: +61 7 3138 1220
Email: j.mcmurtrie@qut.edu.au

Ecology
Dr David Hurwood
Phone: +61 7 3138 5072
Email: d.hurwood@qut.edu.au

Environmental Science
Associate Professor Peter Mather
Phone: +61 7 3138 1737
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Geology

FACULTY OF SCIENCE AND TECHNOLOGY

Mr David Hurwood
Phone: +61 7 3138 5072
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Life Science
Associate Professor Terry Walsh
Phone: +61 7 3138 2347
Email: t.walsh@qut.edu.au

Mathematics
Dr Troy Farrell
Phone: +61 7 3138 2364
Email: t.farrell@qut.edu.au

Physics
Dr Esa Jaatinen
Phone: +61 7 3138 4281
Email: e.jaatinen@qut.edu.au

Course structure - Major in Chemistry

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
NOTE:	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).

Course structure - Major in Ecology, Environmental Science, Geology

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
NOTE:	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).

Course structure - Major in Life Science

Year 1, Semester 1	
LSB850-1	Research Strategies
LSB851-1	Readings in Life Science 1
LSB852-1	Project

Year 1, Semester 2	
LSB850-2	Research Strategies
LSB851-2	Readings in Life Science 1
LSB852-2	Project
NOTE:	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).

Course structure - Major in Mathematics

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	
MAN717	Minor Project
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis
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
MAB613	Partial Differential Equations
MAB672	Advanced Mathematical Modelling
MAN536	Time Series Analysis
	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.

NOTE: 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).

Course structure - Major in Physics

Year 1, Semester 1	
PCB700-1	Research Project
PCB700-2	Research Project
PCB706	Quantum Mechanics
	Elective
NOTE:	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
NOTE:	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
PQB660	Astrophysics 2
PQB661	Lasers and Photonics
NOTE:	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.

Potential Careers:

Actuary, Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Database Manager, Ecologist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist, Laboratory Technician (Chemistry), Marine Scientist, Mathematician, Medical Biotechnologist, Medical Physicist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Physicist, Plant Biotechnologist, Population Ecologist, Programmer, Quantitative Analyst, Statistician, Virologist.

Graduate Diploma in Applied Science (SC71)

Year offered: 2011
Admissions: Yes
CRICOS code: 020314E
Course duration (full-time): 2 semesters (1 year)
Course duration (part-time): 4 semesters (2 years)
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,000 (indicative) per semester
Domestic Entry: February and July
International Entry: February
Total credit points: 96
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Terry Walsh
Discipline coordinator: Dr Geoffrey Will (Chemistry Major); Dr Mark O'Brien (Life Science Major); Dr Troy Farrell (Mathematics Major); Associate Professor Peter Mather (Natural Resource Sciences Major); Dr Andrew Fielding (Physics Major)
Campus: Gardens Point

Overview

This course offers students currently employed in industry the opportunity to upgrade their professional qualificiations 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.

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.

Course Design

This coursework program allows students to complete a minor research project of up to 36 credit points in some discipliines (as approved by the Academic Board). The assessed coursework may include advanced lectures, seminars, reading units or independent study designed to focus on information retrieval skills. Coursework units are chosen from those in the Master of Applied Science course and may contain units from other postgraduate courses, the Bachelor of Applied Science (Honours) program or advanced undergraduate programs.

Further Information

For further information about this course, please contact:

Science and Technology Coordinator
Associate Professor Peter Mather
Phone: +61 7 3138 1737
Email: p.mather@qut.edu.au

Discipline Coordinators

Chemistry
Dr Geoffrey Will
Phone: +61 7 3138 2297
Email: g.will@qut.edu.au

Life Science
Dr Mark O'Brien
Phone: +61 7 3138 2568
Email: m.obrien@qut.edu.au

Mathematics
Dr Troy Farrell
Phone: +61 7 3138 2364
Email: t.farrell@qut.edu.au

Natural Resource Sciences
Associate Professor Peter Mather
Phone: +61 7 3138 1737
Email: p.mather@qut.edu.au

Physics
Dr Andrew Fielding
Phone: +61 7 3138 5325
Email: a.fielding@qut.edu.au

Course structure - Chemistry Strand

PCN701	Topics in Advanced Chemistry 1
PCN705-1	Research Methodology
PCN705-2	Research Methodology
PCN710	Chemical Instrumentation
PCN720	Chemometrics
PCN730	Advanced Physical Methods in Chemistry
PCN740	Laboratory Techniques for Preparative Chemistry
PCN801	Topics in Advanced Chemistry 2

Course structure - Ecology, Environmental Science & Geoscience Strands

NRN100	Readings in Natural Resource Sciences 1
NRN101	Readings in Natural Resource Sciences 2
NRN104	Advanced Topics in Natural Resource Sciences 1
NRN105	Advanced Topics in Natural Resource Sciences 2
	And units approved by the Strand Coordinator

Course structure - Life Science Strand

LSN011	Research Seminars in Life Science 1
LSN013	Readings in Life Science 3
LSN023	Research Seminars in Life Science 3

Course structure - Mathematics Strand

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.

Course structure - Physics Strand

PCN715   Advanced Topics in Physics 1

PCN716   Advanced Topics in Physics 2

And/or alternative unit(s) approved by the Physics Coordinator

Potential Careers:

Actuary, Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Database Manager, Ecologist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist, Laboratory Technician (Chemistry), Marine Scientist, Mathematician, Medical Biotechnologist, Medical Physicist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Physicist, Plant Biotechnologist, Population Ecologist, Programmer, Quantitative Analyst, Statistician, Virologist.

Master of Applied Science (Research) (SC80)

Year offered: 2011
Admissions: Yes
CRICOS code: 007897G
Course duration (full-time): Standard duration is 2 years
Course duration (part-time): Standard duration is 4 years
Domestic fees (indicative): Aust citizens or PRs will be awarded an RTS/RTA place or a QUT sponsorship for tuition fees. If you exceed the max time, you will be charged - 2011: $9,375 per semester (indicative)
International Fees (indicative): 2011: $12,125 (indicative) per semester
Domestic Entry: At any time
International Entry: At any time
Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Terry Walsh
Discipline coordinator: Aspro Louise Hafner (Cell & Molecular Biosciences); Aspro Peter Fredericks (Chemistry); Professor Vo Anh (Mathematics); Dr Fiona Harden (Medical Radiation Sciences); Aspro Lisa Chopin (Medical Science); Aspro Tony Clarke (Biogeosciences); Dr Andrew Fielding (Physics); Dr Trudi Collet (Pharmacy)
Campus: Gardens Point

Entry Requirement

- A Bachelor of Applied Science, equivalent qualification or other evidence of qualifications that demonstrate that the applicant possesses the capacity to pursue the course of study.

  In addition to assessing qualifications, the Faculty must also be satisfied that adequate supervision and resources are available to support the applicant's proposed research.

Course Design

This degree consists of coursework that can comprise up to one-third of the course and research, which must be at least two-thirds of the course. The assessed coursework may be in the form of advanced lectures, seminars, reading courses or independent study designed to focus on information retrieval skills. The research component is a program of supervised research and investigation at a level of scientific competence significantly higher than that expected from an undergraduate degree and, typically, a masters thesis does not need to be as substantial as a Doctor of Philosophy thesis.

Students undertake a program of research and investigation on a topic approved by the Academic Board. All projects should be sponsored either by outside agencies such as industry, government authorities, or professional organisations, or by the University itself.

Students entering the course with an honours degree or equivalent substantial relevant work experience normally gain exemptions to a maximum of 96 credit points at the discretion of the Academic Board on the recommendation of the Head of School.

Students entering the course with a graduate diploma may gain exemption to a maximum of 96 credit points at the discretion of the Academic Board on the recommendation of the Head of School.

A full-time candidate who does not hold an honours degree appropriate to the course of study will normally be required to complete both course and research work, including submission of the thesis for examination during a period of registration of 24 months. The corresponding period in the case of a part-time candidate shall be 48 months. In special cases the Academic Board may approve a shorter period.

A holder of an honours degree or its equivalent appropriate to the course of study may submit the thesis for examination after not less than 12 months of registration if a full-time student, or 24 months if a part-time student. In special cases the Academic Board may approve a shorter period.

Overview

The objectives of this course are to:

- provide postgraduate educational opportunities in specialised fields of applied science by means of a program that involves either an original contribution to knowledge or an original application of existing knowledge

- provide education in research methods

- enable graduates employed in industry to undertake further education by a combination of coursework, research and thesis

- expand the involvement of students employed in industrial organisations and external agencies in undertaking relatively short-duration applied research or investigation.

  Students can undertake an approved project in any area of interest supported by a research area or school within the Faculty of Science. Please note that these areas of research specialisation are only a guide. Staff are happy to discuss study choices directly with students.

Further Information

For further information about this course, please contact:

Terry Walsh
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure - Chemistry

PCN701	Topics in Advanced Chemistry 1
PCN705-1	Research Methodology

PCN705-2   Research Methodology

      Select one of the following Elective Units:

PCN710   Chemical Instrumentation

PCN720   Chemometrics

PCN730   Advanced Physical Methods in Chemistry

PCN740   Laboratory Techniques for Preparative Chemistry

PCN801   Topics in Advanced Chemistry 2

Course structure - Biogeosciences

      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

Course structure - Cell & Molecular Science, Medical Sciences and Pharmacy

LSN011   Research Seminars in Life Science 1

LSN013   Readings in Life Science 3

LSN023   Research Seminars in Life Science 3

Course structure - Mathematics

      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

Course structure - Medical Radiation Sciences

PCN718   Advanced Topics in Medical Radiation Sciences 1

PCN719   Advanced Topics in Medical Radiation Sciences 2

      and alternative unit(s) approved by the Medical Radiaiton Sciences coordinator

Course structure - Physics

PCN715   Advanced Topics in Physics 1

PCN716   Advanced Topics in Physics 2

      and/or alternative unit(s) approved by the Physics coordinator

Research Work

      The Research Work component of the degree must constitute at least 96 credit points. The units below have been devised to represent the EFTSU (Effective Full-time Student Unit) and attendance type of graduate research students.

At the end of each semester a grade of T - Assessment Continues will be awarded in any IFNXXX units provided satisfactory progress is being maintained. A final grade (S - Satisfactory or U - Unsatisfactory) will be awarded once the thesis has been examined according to the degree rules.

Disciplines

1.	Mathematical Sciences	
IFT611	Thesis	
2.	Chemical Sciences	
IFT612	Thesis	
3.	Earth Sciences	
IFT613	Thesis	
4.	Biological Sciences, Agriculture, Horticulture & Viticulture, Forestry Studies, Fisheries Studies, Environmental Studies, Other Agriculture, Environmental & Related Studies	
IFT614	Thesis	
5.	Physics & Astronomy, Other Natural & Physical Sciences	
IFT615	Thesis	
6.	Computer Science	
IFT621	Thesis	
7.	Information Systems & Other Information Technology	
IFT622	Thesis	
8.	Electrical & Electronic Engineering	
IFT635	Thesis	
9.	Environmental Engineering, Biomedical Engineering	
IFT637	Thesis	
10.	Medical Studies, Pharmacy, Dentistry	
IFT661	Thesis	
11.	Political Science & Policy Studies; Human Welfare Studies & Services; Behavioural Science; Librarianship, Information Management & Curatorial Studies; Language & Literature; Philosophy & Religious Studies; Sport & Recreation; Other Society & Culture	
IFT696	Thesis	

Potential Careers:

Actuary, Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Database Manager, Ecologist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist, Laboratory Technician (Chemistry), Marine Scientist, Mathematician, Medical Biotechnologist, Medical Physicist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Physicist, Plant Biotechnologist, Population

Ecologist, Programmer, Quantitative Analyst, Statistician, Virologist.

Bachelor of Medical Imaging Science (ST30)

Year offered: 2011
Admissions: Yes
CRICOS code: 073448G
Course duration (full-time): 3 Years
Domestic fees (indicative): 2011: CSP $3,375 (indicative) per semester
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 418182
Past rank cut-off: 96
Past OP cut-off: 3
Assumed knowledge: English (4 SA), Maths B (4 SA) and Physics (4 SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 288
Standard credit points per full-time semester: 48
Course coordinator: Debbie Starkey
Discipline coordinator: Debbie Starkey
Campus: Gardens Point

Overview

QUT offers a professionally accredited Medical Imaging Technology degree. Employment prospects can be expected to be good as QUT works closely with the health industry to try to ensure that the number of graduates is in line with industry demand. In recent years, over 95 per cent of graduates have been employed within four months of graduation.

This course is designed in consultation with clinical staff from radiology departments, so you'll gain advanced knowledge of new diagnostic techniques and equipment used in the workplace. QUT's well equipped X-ray laboratories allow you to graduate with experience using equipment and techniques similar to those used in industry. Clinical placements in hospitals and private practices provide an opportunity to use your skills in a real workplace

Career Outcomes

After graduating from the Bachelor of Medical Imaging Science, you may be employed as a medical imaging technologist or diagnostic radiographer. As a radiographer you will play a key role within the health care industry by providing referring medical practitioners with additional diagnostic information to assist in patient management and treatment. You may become a team member in a radiology department in a hospital, private radiology practice or health department, or you may be employed in medical equipment sales.

Professional Membership

On graduation, students will be eligible for provisional accreditation by the Australian Institute of Radiography. Full membership requires the completion of an additional professional development year of clinical experience.

English Language Skills (Applicable to health practitioners applying for registration)
All applicants must be able to demonstrate English language skills at IELTS academic level 7 or equivalent. Test results from examinations will generally need to be obtained within two years prior to applying for registration.

Other Course Requirements

You are required to undertake clinical experience in hospital departments and private practices during the course and, as a result, will have direct patient contact during the clinical placement, and may be exposed to blood and body fluids of patients. You must be vaccinated for Hepatitis B and must provide a post-vaccination pathological report or similar certification showing proof of immunity prior to undertaking the first clinical placement.

Cardiopulmonary resuscitation (CPR) certification is also required to undertake clinical placements. In addition, you must satisfy criteria related to health status. You should declare height, physical disabilities, treatment of nervous condition, any drug/alcohol disorder, and a current immunisation status (specifically Hepatitis B) as part of the online enrolment process.

A current Blue Card authorised with QUT may be required prior to commencing the clinical placement components of this course. For more
information visit Blue Card, and ensure that you allow adequate time for processing your application and issuing of the card in order to avoid clinical experience delays.

OP Guarantee

The OP Guarantee does not apply to this program.

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 on deferment.

Further Information

For Further information on the course, please contact the following:

Course Coordinator
Debbie Starkey
Phone: +61 7 3138 2596
Email: d.starkey@qut.edu.au

Course structure - 2011

Year 1, Semester 1	
LSB145	Anatomy 1
PCB007	Patient Care in Professional Practice
PCB178	Principles of Medical Radiations
PCB272	Radiation Physics

Year 1, Semester 2

LSB245	Anatomy 2 and Introductory Pathology
PCB276	General Radiography 1
PCB277	Radiographic Practice
PCB675	Radiation Safety and Biology

Year 2, Semester 1

LSB321	Systematic Pathology
LSB345	Regional & Imaging Anatomy 1
PCB375-1	Radiographic Equipment
PCB377	General Radiography 2
PCB379	Clinical Radiography 1

Year 2, Semester 2

LSB445	Regional and Imaging Anatomy 2
PCB375-2	Radiographic Equipment
PCB476	Special Procedures
PCB477	Complementary Imaging Techniques
PCB479	Clinical Radiography 2

Year 3, Semester 1

PCB567	Advanced Radiographic Technique 1
PCB581-1	Clinical Radiography 3
PCB593	Digital Image Processing
PCB672-1	Project
PCB681	Computed Tomography Imaging

Year 3, Semester 2

PCB581-2	Clinical Radiography 3
PCB667	Advanced Radiographic Technique 2
PCB672-2	Project
PCB682	Magnetic Resonance Imaging

Potential Careers:

Medical Equipment Sales, Medical Imaging Technologist, Radiographer.

Bachelor of Radiation Therapy (ST31)

Year offered: 2011
Admissions: Yes
CRICOS code: 073449G
Course duration (full-time): 3 Years
Domestic fees (indicative): 2011: CSP $3,375 (indicative) per semester
International Fees (indicative): 2011: $11,000 (indicative) per semester
Domestic Entry: February: Fixed Closing Date - 26 November 2010
International Entry: February: Students must have a background in Radiation Therapy
QTAC code: 418192
Past rank cut-off: 92 plus successful questionnaire. Please refer to Additional Entry Requirements.
Past OP cut-off: 5 plus successful questionnaire. Please refer to Additional Entry Requirements.
Assumed knowledge: English (4, SA), Maths B (4, SA) and Physics (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 288
Standard credit points per full-time semester: 48
Course coordinator: Pete Bridge
Campus: Gardens Point

Overview

QUT is currently the only university in Queensland to offer a radiation therapy undergraduate qualification. This course leads to employment as a radiation therapist, assisting cancer patients at the most difficult time in their lives.

Why choose this course

QUT works closely with the health sector in an effort to ensure that the number of graduates is in line with demand. In recent years, more than 95 per cent of graduates gained full-time employment within four months of graduation.

This course is designed in consultation with clinical staff from radiation oncology departments, so you will gain advanced knowledge of new treatment techniques and equipment used in the workplace. QUT's well equipped laboratories allow you to graduate with experience using treatment planning equipment and techniques similar to those used in industry. Close links with local oncology departments allow you to complete practical work and clinical placements using specialised, state-of-the-art radiotherapy equipment.

Career Outcomes

As a radiation therapist in a radiotherapy department of a major hospital or private institution, you may become a member of a team treating cancer patients and be responsible for planning and delivering prescribed radiation doses.

Professional Recognition

This course is provisionally accredited by the Australian Institute of Radiography and undergoing review during 2011.

English Language Skills (Applicable to health practitioners applying for registration)
All applicants must be able to demonstrate English language skills at IELTS academic level 7 or equivalent. Test results from examinations will generally need to be obtained within two years prior to applying for registration.

Early Closing Date

Late QTAC applications and changes of preference for this program close **26 November 2010**.

Additional Entry Requirements

Radiation Therapy applicants are required to lodge a questionnaire, available from **addentry.qut.edu.au**, by no later than **26 November 2010** (questionnaire available late August). Late submissions will not be accepted.

International Student Entry

International students may be offered a place in Radiation Therapy on condition they have met the Clinical Placement requirement. Please refer to Course Coordinator for further information.

Other course requirements

You will be required to undertake clinical experience in hospital departments and private practices during the course and, as a result, will have direct patient contact during your placement and may be exposed to blood and body fluids of patients. You must be vaccinated for Hepatitis B and must provide a post-vaccination pathological report or similar certification showing proof of immunity, prior to undertaking the first clinical placement.

Cardiopulmonary resuscitation (CPR) certification is also required to undertake clinical placements. In addition, you should satisfy criteria related to health status, including declaration of height, physical disabilities, treatment of nervous condition, any drug/alcohol disorder and a current immunisation status (specifically Hepatitis B) as part of the online enrolment process.

Blue Card: A current blue card authorised with QUT may be required prior to commencing the clinical placement components of this course. For more information visit Blue Card, and ensure that you allow adequate time for processing your application and issuing of the card in order to avoid clinical experience delays.

Your course

Year 1

You will develop a solid grounding in anatomy and medical physics along with introductory knowledge of patient health-care needs, professional communication techniques and ethical, legal and accountability issues. Introductory studies in medical radiation and
radiotherapy techniques are complemented with practical sessions using equipment in clinical departments. You will learn a range of skills including patient data acquisition, radiation dosimetry and the basic techniques of treatment delivery including beam direction and beam defining

devices.

Year 2

You will progress to further studies in anatomy and pathology as well as the planning of complex techniques like photon therapy, electron therapy, and megavoltage therapy, including techniques for specific sites. The use of computer software to assist with the optimisation of isodose distributions will be covered along with issues related to the interaction of radiation with tissue, dose measurement and related quality assurance procedures. You will undertake practical exercises in hospital clinical departments along with your first clinical placement period, allowing you to gain real experience in a working environment.

Year 3

You will continue to develop your skills through clinical placements in hospitals and practical classes using equipment in clinical settings. You will cover the techniques of medical imaging used in the detection of cancer, along with future directions of three dimensional treatment planning. You will progress to more complex and specialised techniques for child patients and patients with communicable disease, along with the latest developments and techniques complementary to the modern radiotherapy treatment of cancer. You will learn important information about the biological effects of ionising radiation and the philosophy and protocol in radiation protection and quality assurance.

Further Information

For further information about this course, please contact:

Course Coordinator

Mr Pete Bridge
Phone: +61 7 3138 2273
Email: pete.bridge@qut.edu.au

Deferment

QUT's deferment policy does not apply to this course.

Course structure - 2011

Year 1, Semester 1

LSB145	Anatomy 1
PCB007	Patient Care in Professional Practice
PCB178	Principles of Medical Radiations
PCB272	Radiation Physics

Year 1, Semester 2

LSB245	Anatomy 2 and Introductory Pathology
PCB286	Treatment Planning 1
PCB287	Radiation Therapy 1
PCB675	Radiation Safety and Biology

Year 2, Semester 1

LSB321	Systematic Pathology
LSB345	Regional & Imaging Anatomy 1
PCB389	Clinical Radiotherapy 1
PCB396	Treatment Planning 2
PCB397-1	Radiation Therapy 2

Year 2, Semester 2

LSB445	Regional and Imaging Anatomy 2
PCB397-2	Radiation Therapy 2
PCB489	Clinical Radiotherapy 2
PCB495	Treatment Planning 3
PCB496	Radiotherapy Equipment

Year 3, Semester 1

PCB587	Radiation Therapy 3
PCB591-1	Clinical Radiotherapy 3
PCB593	Digital Image Processing
PCB595	Treatment Planning 4
PCB672-1	Project

Year 3, Semester 2

PCB591-2	Clinical Radiotherapy 3
PCB672-2	Project
PCB687	Specialised Radiotherapy Technique
PCB695	Advanced Treatment Planning Topics

Potential Careers:

Radiation Therapist.

Bachelor of Technology Innovation (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA), Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

The Bachelor of Technology Innovation covers the innovation contexts of science and information technology, within your primary study area of choice. Choose from:

• biochemistry
• biomedical science
• biotechnology
• chemistry
• digital media
• ecology
• environmental science
• forensic science
• games technology
• geoscience
• information technology
• microbiology
• physics

Why Choose this Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

Professional Recognition

On graduation, you will be eligible to join professional organisations relevant to your disciplinary specialisation, the Association of Professional Engineers, Scientists and Managers, Australia and the Australian Institute of Management.

Your Course

Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Further Information

For further information about this course, please contact:

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

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 on deferment.

Bachelor of Technology Innovation (Biochemistry) (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA), Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Biochemistry is the study of the chemical processes that occur in living organisms including the chemical structure, function and properties and energy flows. Biochemistry underpins much of the life sciences industry.

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

Professional Recognition

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

Your Course

Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Biochemistry Major Course Structure

Year 1, Semester 1
SCB110   Science Concepts and Global Systems

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE of the following units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
NOTE:	1. Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105.
	2. Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101.
	3. Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121.
	4. Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120.

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 2, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation
	Plus TWO units from the relevant options List which may include one unit from outside of the Faculty *

Year 2, Semester 2

LQB481	Biochemical Pathways and Metabolism
LQB483	Molecular Biology Techniques
	Plus TWO units from the relevant options List which may include one unit from outside of the Faculty#

Year 3, Semester 1

BSB115	Management
LQB581	Functional Biochemistry
LQB582	Biomedical Research Technologies
STB551	Engaging with the Innovation Industry

Year 3, Semester 2

BSB126	Marketing
LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering
MGB223	Entrepreneurship and Innovation

Year 4, Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4, Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

* Recommended Year 2 Semester 1 Units

| LQB386 | Microbial Structure and Function |
| LQB388 | Medical Physiology 1 |

Recommended Year 2 Semester 2 Units

	Any TWO units listed below provided prerequisites are met:
LQB484	Introduction to Genomics and Bioinformatics
LQB486	Clinical Microbiology 1
LQB488	Medical Physiology 2
LQB489	Plant Physiology and Cell Biology

Potential Careers:

Biochemist.

Bachelor of Technology Innovation (Biomedical Science) (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA), Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Biomedical science is the study of the medical and clinicallyoriented biological sciences.

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

Professional Recognition

On graduation, you will be eligible to join professional organisations relevant to your disciplinary specialisation, the Association of Professional Engineers, Scientists and Managers, Australia and the Australian Institute of Management.

Your Course

Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Biomedical Science Major Course Structure

Year 1, Semester 1	
MAB141	Mathematics and Statistics for Medical Science

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

LSB255	Human Anatomy
PCB150	Physics 1H
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function
LQB388	Medical Physiology 1
LSB325	Biochemistry

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
LQB486	Clinical Microbiology 1
LSB425	Quantitative Medical Science

Year 3, Semester 1

BSB115	Management
STB551	Engaging with the Innovation Industry
	Plus any TWO of the following five units
LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB586	Clinical Microbiology 2
LSB525	Clinical Biochemistry 1
	Elective

Year 3, Semester 2

BSB126	Marketing
MGB223	Entrepreneurship and Innovation
	Plus any TWO units of the following five units provided the prerequisites are met:
LQB488	Medical Physiology 2
LQB684	Medical Biotechnology
LSB625	Clinical Biochemistry 2
LSB658	Clinical Physiology
	Elective

Year 4, Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4, Semester 2

| BSB311 | Innovation Commercialisation Strategies |

MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Biotechnology) (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA), Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Biotechnology is the application of cell and molecular biology and biochemical principles to create a new generation of products and processes for the benefit of society.

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

Professional Recognition

Graduates are eligible for membership of AusBiotech Ltd, Australian Society for Biochemistry and Molecular Biology (ASBMB) and, depending on unit selection, Australian Society for Medical Research (ASMR) and the Australian Society for Microbiology (ASM).

Your Course

Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Biotechnology Major Course Structure

Year 1 Semester 1	
SCB110	Science Concepts and Global Systems

FACULTY OF SCIENCE AND TECHNOLOGY

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE of the following units
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
	NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101
	Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105
	Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121
	Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 2 Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation
	Plus TWO units from the relevant options List which may inlcude one unit from outside the Faculty
	Relevant Options List for Year 2, Semester 1
LQB386	Microbial Structure and Function
LQB388	Medical Physiology 1
	Elective

Year 2 Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
	Plus TWO units from the relevant options List which may inlcude one unit from outside the Faculty
	Relevant Options List for Year 2, Semester 2
LQB481	Biochemical Pathways and Metabolism
LQB486	Clinical Microbiology 1
LQB488	Medical Physiology 2
LQB489	Plant Physiology and Cell Biology
	Elective

Year 3 Semester 1

BSB115	Management
STB551	Engaging with the Innovation Industry
	Plus any TWO of the three units below

	provided prerequisites are met
LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Year 3 Semester 2

BSB126	Marketing
MGB223	Entrepreneurship and Innovation
	Plus any TWO of the three units below provided prerequisites are met
LQB682	Protein Biochemistry and Bioengineering
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions

Year 4 Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Chemistry) (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA), Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Chemistry is the study of the structure, properties, synthesis and reactions of materials. Chemistry is one of the central sciences since its results are used in almost all areas of science including life sciences, the environment, geosciences, biology, and food science.

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

Professional Recognition

On graduation, you will be eligible to join professional organisations relevant to your disciplinary specialisation, the Association of Professional Engineers, Scientists and Managers, Australia and the Australian Institute of Management.

Your Course

Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Chemistry Major Course Structure

Year 1 Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE of the following units
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations

NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101

Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105

Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121

Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2

SCB121	Chemistry 2
SCB123	Physical Science Applications
SCB131	Experimental Chemistry
	Plus ONE of the following two units
MAB120	Algebra and Calculus
SCB122	Cell and Molecular Biology

Year 2 Semester 1

PQB312	Analytical Chemistry For Scientists and Technologists
PQB331	Structure and Bonding
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List for Year 2, Semester 1
MAB120	Algebra and Calculus
PQB313	Analytical Chemistry For Industry
	Elective
	MAB120 may be taken by students who undertook SCB122 in Year 1 Semester 2

Year 2 Semester 2

PQB401	Reaction Kinetics, Thermodynamics and Mechanisms
PQB442	Chemical Spectroscopy
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List for Year 2, Semester 2
PQB404	Nanotechnology and Nanoscience
PQB423	Process Principles
	Elective

Year 3 Semester 1

BSB115	Management
PQB502	Advanced Physical Chemistry
PQB531	Organic Mechanisms and Synthesis
STB551	Engaging with the Innovation Industry

Year 3 Semester 2

BSB126	Marketing
MGB223	Entrepreneurship and Innovation
PQB631	Advanced Inorganic Chemistry
PQB642	Chemical Research

Year 4 Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Digital Media) (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA), Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Digital media companies now dominate the multimedia and cinematic industries and the evolution of the industry is just beginning. Mixing graphics, video, animation and sound to produce stand alone digital entertainment or cinematic special effects is a growing global industry seeking new ideas and innovation.

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has

seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

Professional Recognition

No professional accreditation is currently available for courses in the games and entertainment area.

Your Course

Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Digital Media Major Course Structure

The course consists of four blocks of studies
BLOCK A   Core Studies - 13 units (156 credit points)

BLOCK B   Major - 13 units (156 credit points)

BLOCK C   Minor - 4 units (48 credit points)

BLOCK D   Electives - 2 units (24 credit points)

Year 1 Semester 1

INB101	Impact of IT
INB104	Building IT Systems
INB180	Computer Games Studies
INB182	Introducing Design

Year 1 Semester 2

INB103	Industry Insights
INB181	Introduction to Games Production
	Block C or Block D Unit
	Block C or Block D Unit

Year 2 Semester 1

INB385	Multimedia Systems
KIB101	Visual Communication
KIB230	Interface and Information Design
	Block C or Block D Unit

Year 2 Semester 2

INB386	Advanced Multimedia Systems
KIB102	Visual Interactions
	Block C or Block D Unit
	Block C or Block D Unit

Year 3 Semester 1

BSB115	Management
INB345	Mobile Devices
KIB309	Embodied Interactions
STB551	Engaging with the Innovation Industry

Year 3 Semester 2

BSB126	Marketing
KIB314	Tangible Media
MGB223	Entrepreneurship and Innovation
	Block C or Block D Unit

Year 4 Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Block C Minor List

ANIMATION:

KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KIB203	Introduction to 3D Computer Graphics
KIB225	Character Development, Conceptual Design and Animation Layout
KVB105	Drawing for Design
KVB106	Drawing for Animation

GAME DESIGN:

KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB280	Fundamentals of Game Design
	Plus ONE of the following two units:
INB281	Advanced Game Design
INB272	Interaction Design

MATHEMATICS FOR GAMES:

MAB120	Algebra and Calculus
MAB122	Algebra and Analytic Geometry
MAB121	Calculus and Differential Equations
MAB312	Linear Algebra
	[Students who have completed Maths C can susbtitute MAB120 with one of the following units: MAB311, MAB481 or MAB422]

MOBILE AND NETWORK TECHNOLOGIES:

INB102	Emerging Technology
INB251	Networks
INB350	Internet Protocols and Services
INB353	Wireless and Mobile Networks

SOUND DESIGN:

KMB107	Sound, Image, Text
KMB119	Music and Sound Production 1
KMB129	Music and Sound Production 2
KMB252	Multi-Platform Sound Design

SOFTWARE TECHNOLOGIES:

INB210	Databases
INB250	Foundations of Computer Science
INB270	Programming
INB371	Data Structures and Algorithms

PHYSICS FOR GAMES:

MAB121	Calculus and Differential Equations
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
	Plus ONE of the following three units:

PQB450   Energy, Fields and Radiation

PQB460   Astrophysics 1

PCB593   Digital Image Processing

Bachelor of Technology Innovation (Ecology) (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA); Maths B (4, SA) and Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Ecology is the study of relationships between organisms and their environment. Ecology helps us to understand the distribution and abundance of organisms. As an applied science it is used to design strategies for the management of populations of organisms (both natural and commercial). New means of managing populations in the deteriorating environment are key areas of growth relating to environmental management and conservation providing new commercial opportunities.

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

Professional Recognition

Professional recognition is achieved through membership of a scientific society, for example, the Ecological Society of Australia (ESA) or the Australian Wildlife Management Society (AWMS) and participation in its meetings and professional activities.

Your Course

Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4
You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and

ready you for your future career.

Ecology Major Course Structure

Year 1, Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE of the following four units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB121	Calculus and Differential Equations
MAB120	Algebra and Calculus
	NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101
	Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105
	Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121
	Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1, Semester 2	
NQB201	Planet Earth
NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology
	Plus ONE of the following three units:
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 2, Semester 1	
NQB321	Ecology
	Plus ONE of the following three units
NQB302	Earth Surface Systems
NQB322	Invertebrate Biology
NQB323	Plant Biology
	Plus TWO units from the relevant options List which may include one unit from outside of the Faculty
	Relevant Options List for Year 2 Semester 1
NQB322	Invertebrate Biology
NQB323	Plant Biology
	Elective

Year 2, Semester 2	
NQB421	Experimental Design
NQB422	Genetics and Evolution
	Plus TWO units from the relevant options List which may include one unit from outside of the Faculty
	Relevant Options List for Year 2 Semester 2
NQB423	Vertebrate Biology
	Elective

Year 3, Semester 1	
BSB115	Management
NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management
STB551	Engaging with the Innovation Industry

Year 3, Semester 2	
BSB126	Marketing
MGB223	Entrepreneurship and Innovation
NQB622	Conservation Biology
NQB623	Ecological Systems

Year 4, Semester 1	
AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4, Semester 2	
BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-2	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Environmental Science) (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA), Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Environmental Science is the application of fundamental, core science disciplines to problems encountered in the management and understanding of our environment. Issues of sustainability and resource utilisation mean that environmental science is a key area for development of new products and processes.

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has

seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

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).

Your Course

Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Environmental Science Major Course Structure

FACULTY OF SCIENCE AND TECHNOLOGY

Year 1 Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE of the following four units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations

NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101

Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105

Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121

Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2

NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology
SCB123	Physical Science Applications
	Plus ONE of the following two units:
NQB201	Planet Earth
SCB121	Chemistry 2

Year 2 Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List for Year 2 Semester 1
NQB322	Invertebrate Biology
NQB323	Plant Biology
	Elective

Year 2 Semester 2

NQB403	Soils and the Environment
NQB421	Experimental Design
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List for Year 2 Semester 2
NQB422	Genetics and Evolution
NQB423	Vertebrate Biology
	Elective

Year 3 Semester 1

BSB115	Management
NQB501	Environmental Modelling
STB551	Engaging with the Innovation Industry
	Plus ONE of the two following units:
NQB502	Field Methods in Natural Resource Sciences
NQB503	Spatial Analysis of Environmental Systems

Year 3 Semester 2

BSB126	Marketing
MGB223	Entrepreneurship and Innovation
NQB601	Sustainable Environmental Management
	Plus ONE of the three following units:
NQB602	Environmental Chemistry
NQB614	Groundwater Systems
NQB623	Ecological Systems

Year 4 Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Forensic Science) (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA), Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Forensic Science involves the application of chemical and biological principles and laboratory processes to identify and quantify matter within a legal context. Areas that are relevant to forensic science are wide ranging, and include: the detection and identification of illicit drugs, explosive and gunshot residues, accelerants used in arson cases, and trace evidence (eg paint, glass, fibres, soil); DNA profiling, where it is possible to distinguish between individuals on the basis of samples involving blood, saliva, hair or semen; toxicology studies to identify illicit and pharmaceutical drugs and poisons and interpret toxicity levels and their effect on the human body; and fingerprinting.

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

Professional Recognition

Graduates may be eligible for membership of the Australian and New Zealand Forensic Society (ANZFSS), AusBiotech Ltd, the Australian Society for Biochemistry and Molecular Biology (ASBMB), and the Royal Australian Chemical Institute (RACI).

Your Course

Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student

teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Forensic Science Major Course structure

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE from the following four units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations

NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101

Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105

Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121

Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1, Semester 2

SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
SCB131	Experimental Chemistry

Year 2, Semester 1

LQB383	Molecular and Cellular Regulation
SCB384	Forensic Sciences - From Crime Scene to Court
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List Year 2 Semester 1
PQB331	Structure and Bonding
	Elective

Year 2, Semester 2

JSB979	Forensic Scientific Evidence
PQB312	Analytical Chemistry For Scientists and Technologists
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List Year 2 Semester 2
PQB442	Chemical Spectroscopy
	Elective

Year 3, Semester 1

BSB115	Management
PQB513	Instrumental Analysis
PQB584	Forensic Physical Evidence
STB551	Engaging with the Innovation Industry

Year 3, Semester 2

BSB126	Marketing
MGB223	Entrepreneurship and Innovation
LQB680	Forensic DNA Profiling
PQB684	Forensic Analysis

Year 4, Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4, Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Games Technology) (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA), Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Software design and development underlying computer games and multimedia are fundamental to a growing global industry where creativity and innovation can quickly become new products in the global marketplace.

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

Professional Recognition

No professional accreditation is currently available for courses in the games and entertainment area.

Your Course

Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Games Technology Major Course Structure

The course consists of four blocks of studies
BLOCK A   Core Studies - 13 units (156 credit points)
BLOCK B   Major - 13 units (156 credit points)
BLOCK C   Minor - 4 units (48 credit points)

BLOCK D   Electives - 2 units (24 credit points)

Year 1 Semester 1

INB101	Impact of IT
INB104	Building IT Systems
INB180	Computer Games Studies
INB182	Introducing Design

Year 1 Semester 2

INB103	Industry Insights
INB181	Introduction to Games Production
INB270	Programming
MAB281	Mathematics for Computer Graphics

Year 2 Semester 1

INB370	Software Development
INB371	Data Structures and Algorithms
	Block C or Block D Unit
	Block C or Block D Unit

Year 2 Semester 2

INB210	Databases
INB250	Foundations of Computer Science
INB381	Modelling and Animation Techniques
	Block C or Block D Unit

Year 3 Semester 1

BSB115	Management
STB551	Engaging with the Innovation Industry
	Block C or Block D Unit
	Plus ONE of the following two units:
INB382	Real Time Rendering Techniques
INB383	AI for Games

Year 3 Semester 2

BSB126	Marketing
MGB223	Entrepreneurship and Innovation
	Block C or Block D Unit
	Block C or Block D Unit

Year 4 Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

BLOCK C Minor Units List

ANIMATION:

KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KIB108	Animation History and Practices
KIB225	Character Development, Conceptual Design and Animation Layout
KVB105	Drawing for Design
KVB106	Drawing for Animation

ADVANCED SOFTWARE TECHNOLOGIES:

INB365	Systems Programming
INB372	Agile Software Development
INB374	Enterprise Software Architecture
	Plus ONE from the following two units:
INB382	Real Time Rendering Techniques
INB383	AI for Games

DIGITAL MEDIA:

KIB101	Visual Communication
KIB102	Visual Interactions
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems

GAME DESIGN:

KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB280	Fundamentals of Game Design
	Plus ONE from the following two units:
INB272	Interaction Design
INB281	Advanced Game Design

MATHEMATICS FOR GAMES:

MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB312	Linear Algebra
	[Students who have completed Maths C can substitute MAB120 with one of the following units: MAB311, MAB481 or MAB422]

MOBILE AND NETWORK TECHNOLOGIES:

INB102	Emerging Technology
INB251	Networks
INB350	Internet Protocols and Services
INB353	Wireless and Mobile Networks

SOUND DESIGN:

| KMB106 | Music and Sound for Multimedia |
| KMB107 | Sound, Image, Text |

KMB119   Music and Sound Production 1

KMB129   Music and Sound Production 2

PHYSICS FOR GAMES:

MAB121   Calculus and Differential Equations

PQB250   Mechanics and Electromagnetism

PQB251   Waves and Optics

               Plus ONE from the following three units:

PQB450   Energy, Fields and Radiation

PQB460   Astrophysics 1

PCB593   Digital Image Processing

Bachelor of Technology Innovation (Geoscience) (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA), Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Geoscience is the systematic study of the earth and the dynamic interactions of its systems. Geoscience incorporates a study of the materials of the earth, the natural processes acting in and upon the earth, and its history. Australia has a long history of innovation in the utilisation, recycling and conservation of natural resources and will continue to do so, thus providing for new commercial opportunities in the mining industry.

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and

technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

Professional Recognition

Graduates are eligible for membership of the Australasian Institute of Mining and Metallurgy (AIMM), Australian Institute of Geoscientists (AIG), and the Geological Society of Australia (GSA).

Your Course

Year 1
You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2
You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3
In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4
You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Geoscience Major Course Structure

Year 1 Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE of the following four units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations

NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101

Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105

Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121

Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2

NQB201	Planet Earth
NQB202	History of Life on Earth
SCB123	Physical Science Applications
SCB222	Exploration of the Universe

Year 2 Semester 1

NQB311	Mineralogy
NQB314	Sedimentary Geology

Plus TWO units from the relevant options List which may include one unit from outside the Faculty

Relevant Options List for Year 2 Semester 1

NQB302	Earth Surface Systems
UDB281	Geographic Information Systems
	Elective

Year 2 Semester 2

NQB411	Petrology of Igneous and Metamorphic Rocks
NQB412	Structural Geology and Field Methods

Plus TWO units from the relevant options List which may include one unit from outside the Faculty

Relevant Options List for Year 2 Semester 2

NQB403	Soils and the Environment
NQB413	Stratigraphy
	Elective

Year 3 Semester 1

BSB115	Management
NQB502	Field Methods in Natural Resource Sciences
NQB513	Geophysics
STB551	Engaging with the Innovation Industry

Year 3 Semester 2

BSB126	Marketing
MGB223	Entrepreneurship and Innovation
NQB615	Geochemistry
	Plus ONE from the following three units:
NQB612	Basin Analysis and Petroleum Geology
NQB613	Plate Tectonics
NQB614	Groundwater Systems

Year 4 Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Information Technology) (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA), Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Creative and innovative IT ideas that give rise to new products and processes have been a major driver of world economies for over forty years. Existing IT areas such as business process management, data warehousing, networking, web technologies information management and digital societies will merge with other sciences and technologies to forge a future of opportunities for IT savvy technoentrepreneurs.

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and

technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

Professional Recognition

On graduation, you will be eligible to join professional organisations relevant to your disciplinary specialisation, the Association of Professional Engineers, Scientists and Managers, Australia and the Australian Institute of Management.

Your Course

Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Information Technology Major Course Structure

Plus ONE unit either from the IT Breadth Options List or the IT Specialisation Options List

Year 1 Semester 1

INB101	Impact of IT
INB102	Emerging Technology
INB103	Industry Insights
INB104	Building IT Systems

Year 1 Semester 2

Choose THREE units from the IT Breadth Options List

Plus ONE unit which may be any Faculty of Science and Technology unit or a unit from another Faculty

Please note that students must take a total of TWO Faculty of Science and Technology Units and a total of TWO units from another Faculty

Year 2 Semester 1

INB201	Scalable Systems Development

Plus ONE unit from the IT Breadth Options List

Plus ONE unit which may be any Faculty of Science and Technology unit or a unit from another Faculty

Plus ONE unit from the IT Specialisation Options List

Please note that students must take a total of TWO Faculty of Science and Technology Units and a total of TWO units from another Faculty

Year 2 Semester 2

Choose ONE unit from the IT Specialisation Options List

Plus TWO units which may be any Faculty of Science and Technology unit or a unit from another Faculty

Plus ONE unit either from the IT Breadth Options List or the IT Specialisation Options List

Please note that students must take a total of TWO Faculty of Science and Technology Units and a total of TWO units from another Faculty

Year 3 Semester 1

BSB115	Management
STB551	Engaging with the Innovation Industry

Plus ONE unit from the IT Specilisation Options List

Plus ONE unit either from the IT Breadth Options List or the IT Specialisation Options List

Year 3 Semester 2

BSB126	Marketing
MGB223	Entrepreneurship and Innovation

Plus ONE unit from the IT Specilisation Options List

Year 4 Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Information Technology Breadth Options List

Students must complete FOUR units from the following list:

INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Foundations of Computer Science
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

Information Technology Specialisation Options List

Students must complete FOUR units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units.

ENTERPRISE SYSTEMS:

INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB312	Enterprise Systems Applications

WEB TECHNOLOGIES:

INB313	Electronic Commerce Site Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems

BUSINESS PROCESS MANAGEMENT:

INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting

INB323	Smart Services

DATA WAREHOUSING:

INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining and Data Analysis
INB343	Advanced Data Mining and Data Warehousing

NETWORK SYSTEMS:

INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB352	Network Planning
INB353	Wireless and Mobile Networks

SOFTWARE ENGINEERING:

INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development
INB374	Enterprise Software Architecture

DIGITAL ENVIRONMENTS

INB334	Information Issues and Values
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications

UNGROUPED UNITS:

INB355	Cryptology and Protocols
INB365	Systems Programming
INB860	Computational Intelligence for Control and Embedded Systems

Bachelor of Technology Innovation (Microbiology) (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA), Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Microbiology is the study of living organisms of microscopic size. The principal components are bacteriology, virology and mycology, and areas of fundamental importance in the applied sciences of pathology and immunology. Diagnostics of viral and bacterial infection and immunology form the basis of recent innovation in microbial biotechnology.

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has

seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

Professional Recognition

Graduates are eligible for membership of the Australian Society for Microbiology (ASM).

Your Course

Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Microbiology Major Course Structure

Year 1 Semester 1	
SCB110	Science Concepts and Global Systems

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE from the following four units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations

NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101

Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105

Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121

Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 2 Semester 1

LQB381	Biochemistry: Structure and Function
LQB386	Microbial Structure and Function

Plus TWO units from the relevant options List which may include one unit from outside the Faculty

Relevant Options List for Year 2 Semester 1:

LQB383	Molecular and Cellular Regulation
LQB388	Medical Physiology 1
	Elective

Year 2 Semester 2

LQB483	Molecular Biology Techniques
LQB486	Clinical Microbiology 1

Plus TWO units from the relevant options List which may include one unit from outside the Faculty

Relevant Options List for Year 2 Semester 2:

LQB481	Biochemical Pathways and Metabolism
LQB484	Introduction to Genomics and Bioinformatics
LQB488	Medical Physiology 2
LQB489	Plant Physiology and Cell Biology
	Elective

Year 3 Semester 1

BSB115	Management
LQB586	Clinical Microbiology 2
LQB587	Applied Microbiology 1: Water, Air and Soil
STB551	Engaging with the Innovation Industry

Year 3 Semester 2

BSB126	Marketing
MGB223	Entrepreneurship and Innovation
LQB686	Microbial Technology and Immunology
LQB687	Applied Microbiology 2: Food and Quality Assurance

Year 4 Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Physics) (ST50)

Year offered: 2011
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2011: CSP $2,178 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 418311
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA), Chemistry (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Physics is the science discipline dealing with the natural laws and processes, with the states and properties of matter and energy. Physics also underlies many of the recent advances in information technology, medicine and biotechnology and thus provides a rich supply of innovation that feeds into commercial products.

The Bachelor of Technology Innovation is designed to train the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework plus honours degree focuses on the business of innovation where you will learn the skills required to bring complex emerging technologies to the global marketplace.

While research innovation is critical to the future economy of Australia, it is the commercialisation of innovations that serves to build and strengthen local high-technology industries. Australia already produces many competent scientists but has a poor history of capitalising on research outcomes. You can join an elite group of skilled professionals driving innovation commercialisation in the science and technology sector in Australia or into the international market.

Why Choose This Course

If you like to work in a dynamic world of translating discovery and creativity into commercial products, meeting people, and working in a high-powered team environment to build money-making enterprises, then this course is for you. The Bachelor of Technology Innovation will allow a rapid entry into the high-flying world of commercialisation and technology transfer. This new degree builds upon the successful Bachelor of Biotechnology Innovation which has seen graduates realise outstanding job outcomes, often successfully competing against graduates with PhDs and MBAs.

Career Outcomes

As a graduate of the Bachelor of Technology Innovation you can choose to be a business-savvy scientist, operate in the world of commercialisation and technology transfer, or start up a business enterprise to bring your own products to market. Graduates of the predecessor degree have taken up key positions in the biotechnology sector as investment analysts and advisors, business development associates, commercialisation officers, government advisers and scientists working on commercially oriented products. Some graduates have even established their own companies.

Professional Recognition

Graduates are eligible for membership of the Australian Institute of Physics (AIP).

Your Course

Year 1

You will be able to choose subjects from across a range of science and technology areas to help you define your choice of disciplinary major. The introductory core studies will provide you with a solid foundation in your chosen disciplinary skills and build the basis for future studies.

Year 2

You will be introduced to advanced theoretical concepts and practical skills that serve to build your expertise in the science and technology disciplines. A thorough understanding of science and technology theory and practice is necessary to understand, evaluate and communicate aspects of innovation to the business world.

Year 3

In third year, you will complete your science and technology disciplinary advanced studies and take basic and advanced business units that encompass the business of innovation, intellectual property law and professional skills development. Through the action learning framework of the Student Enterprise Scheme, professional skills development will concentrate on communication and team-building skills. These exercises will help prepare you for industry-based consultancy style projects and extra-curricular networking events and an industry career.

Year 4

You will undertake integrative business units that develop the entrepreneurial mindset needed for a career in innovation commercialisation. You will further develop your professional skills through networking events. Student teams will source an industry-based consultancy-style project that will serve to provide real world experience and ready you for your future career.

Physics Major Course Structure

Year 1 Semester 1
SCB110   Science Concepts and Global Systems

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE from the following four units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations

NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101

Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105

Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121

Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2

MAB122	Algebra and Analytic Geometry
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
	Plus ONE from the following two units
MAB121	Calculus and Differential Equations
MAB220	Computational Mathematics 1

Year 2 Semester 1

| MAB311 | Advanced Calculus |
| PQB350 | Thermodynamics of Solids and Gases |

Plus TWO units from the relevant options List which may include one unit from outside the Faculty

Relevant Unit Options List for Year 2, Semester 1:

PCB593	Digital Image Processing
PQB360	Global Energy Balance and Climate Change
	Elective

Year 2 Semester 2

| PQB450 | Energy, Fields and Radiation |
| PQB451 | Electronics and Instrumentation |

Plus TWO ADVANCED units offered by the Faculty of Science and Technology

Relevant Unit Options List for Year 2, Semester 2:

| PQB460 | Astrophysics 1 |

Year 3 Semester 1

BSB115	Management
PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques
STB551	Engaging with the Innovation Industry

Year 3 Semester 2

BSB126	Marketing
MGB223	Entrepreneurship and Innovation
PQB650	Advanced Theoretical Physics
PQB651	Experimental Physics

Year 4 Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

University Study Abroad Certificate (U080)

Year offered: 2011
Admissions: Yes
CRICOS code: 050556E
Course duration (full-time): One Semester
International Fees (indicative): 2011: $9,450 per semester (flat fee)
Campus: Gardens Point and Kelvin Grove

Course Description

The QUT Study Abroad Certificate is awarded to students who complete one semester of an approved study program. To be eligible, you must successfully complete credit points with a minimum grade of 4 in each unit. These subjects can be used for 48 academic credit at your home institution (subject to approval by the home institution).

What can I study?

You can select from a comprehensive range of QUT subjects and custom-design your program to suit your interests and meet the requirements of your home university. You can choose from over 2200 units, including well over 300 pre-approved units for Study Abroad and Exchange students, in Built Environment and Engineering, Business, Creative Industries, Education, Health, Law, Justice and Science and Technology.

Entry Requirements

To be eligible for the Study Abroad program you need:
• a minimum one year of full-time study at a recognised university (this criteria applies to a majority of applicants however, high school students from some countries may meet the entry requirements).
• a GPA (Grade Point Average) of 2.5 or better (on a 4-point scale) or equivalent.
• an English Language Proficiency level in accordance with QUT requirements* if English is not your first language (QUT requirements are an IELTS overall score of 6.5 with no less than 6.0 in the sub- bands, or a TOEFL score of 575, or a computerised TOEFL score of 230).

* You may be exempt from taking a formal test if your secondary or post-secondary studies were conducted entirely in English and you have passed an English language subject or one or more Communication subjects.

If students meet academic entry requirements but do not meet English requirements please email studyabroad@qut.edu.au for alternative entry options.

Accounting and Finance

Accounting and Finance- Semester 1	
AYB114	Business Technologies
AYB115	Governance Issues and Fraud
EFB201	Financial Markets
EFB210	Finance 1
BSB110	Accounting

Accounting and Finance- Semester 2	
AYB250	Personal Financial Planning
EFB201	Financial Markets
EFB210	Finance 1
BSB110	Accounting

Advertising and Marketing

Advertising and Marketing- Semester 1	
AMB120	Bridging Cultures
AMB210	Importing and Exporting
AMB220	Advertising Theory and Practice
AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques
BSB126	Marketing

Advertising and Marketing- Semester 2	
AMB120	Bridging Cultures
AMB210	Importing and Exporting
AMB220	Advertising Theory and Practice
AMB252	Business Decision Making
AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques
BSB126	Marketing

General Business

General Business- Semester 1	
BSB110	Accounting
BSB111	Business Law and Ethics
BSB113	Economics
BSB115	Management
BSB119	Global Business
BSB123	Data Analysis
BSB124	Working in Business
AMB120	Bridging Cultures
BSB126	Marketing

General Business- Semester 2	
BSB110	Accounting
BSB111	Business Law and Ethics
BSB113	Economics
BSB115	Management
BSB119	Global Business
BSB123	Data Analysis
BSB124	Working in Business
AMB120	Bridging Cultures

Corporate Systems Management

Corporate Systems Management- Semester 1

INB103	Industry Insights
INB120	Corporate Systems
INB122	Organisational Databases
INB220	Business Analysis
INB221	Technology Management
INB312	Enterprise Systems Applications
INB321	Business Process Management
INB322	Information Systems Consulting

Corporate Systems Management- Semester 2

INB103	Industry Insights
INB123	Project Management Practice
INB124	Information Systems Development
INB210	Databases
INB313	Electronic Commerce Site Development
INB320	Business Process Modelling
INB342	Enterprise Data Mining and Data Analysis

Creative Industries Foundation

Foundation- Semester 1

KKB101	Creative Industries: People and Practices

Foundation- Semester 2

KKB102	Creative Industries: Making Connections

Creative Writing

Creative Writing- Semester 1

KWB101	Introduction to Creative Writing
KWB102	Media Writing
KWB103	Persuasive Writing
KWB104	Creative Writing: the Short Story
KWB107	Creative Non-Fiction
KWB207	Great Books: Creative Writing Classics
KWB211	Stylistics and Poetics
KWB102	Media Writing
KWB104	Creative Writing: the Short Story
KWB106	Corporate Writing and Editing
KWB206	Youth and Children's Writing

Dance

Dance- Semester 1

KDB105	Architecture of the Body
KDB110	Deconstructing Dance in History

Dance- Semester 2

KDB106	Dance Analysis

KDB204	Australian Dance

Drama

Drama- Semester 1

KTB101	20th Century Performance
KTB102	Process Drama
KTB103	Performing Skills 1: Character and Scene
KTB204	Understanding Performance

Drama- Semester 2

KTB104	Performance Innovation
KTB106	Performing Skills 2: Style and Form

Education - General

Education - Semester 1

EDB004	Teaching and Learning Studies 4: Inclusive Education
EDB036	Introduction To Education

Education - Semester 2

EDB003	Teaching and Learning Studies 3: Practising Education
EDB041	Indigenous Australia: Country, Kin and Culture

Education: Cultural and Language Studies

Education: Cultural and Language Studies- Semester 1

CLB001	Records Management
CLB049	The Global Teacher
CLB050	Movies and Popular Culture
CLB321	Writing Workshop
CLB321	Writing Workshop
CLB403	Gender And Sexuality Issues For Teachers
CLB442	Teaching of Writing
CLB452	Media Literacy And The School

Education: Cultural and Language Studies- Semester 2

CLB002	Computer Applications in BCT
CLB003	Administrative Procedures
CLB004	Foundation: Language Design and Theory
CLB005	Foundation: Wellness and Active Citizenship
CLB006	Teaching Reading and Writing
CLB320	Studies In Language
CLB323	Teaching Adolescent Literature
CLB347	Teaching English as an Additional Language
CLB441	Children's Literature
EDB001	Teaching and Learning Studies 1: Teaching in New Times
EDB007	Culture Studies: Indigenous Education

Education: Early Childhood

Education: Early Childhood- Semester 1

EAB001	Early Childhood Foundations 1: Historical and Comparative Perspectives of EC Education
EAB005	Inclusion in Early Childhood Settings
EAB006	Leadership and Management in Early Childhood Services
EAB008	Early Childhood Language, Literacies and Communication I
EAB013	Early Childhood Society Environment and Health Education
EAB016	Research in Early Childhood Education
EAB027	Early Childhood Mathematics Education 1: Birth to Six Years
EDB006	Learning Networks

Education: Early Childhood- Semester 2

EAB002	Early Childhood Foundations 2: Families and Childhoods in EC Education and Care
EAB003	Development and Learning in Early Childhood
EAB011	Early Childhood Curriculum: Arts 1
EAB015	Early Childhood Science and Technology Education
EAB021	Early Childhood Health, Safety, Nutrition and Wellness Education
EAB022	Early Childhood Science Education
EAB023	Mathematical Explorations in Early Childhood
EAB028	Early Childhood Mathematics Education 2: Four to 8 Years
EAB361	Storytelling In Early Childhood
EAB363	Creating Curriculum With Young Children

Education Field Studies

Important Information

Field studies are only available in Semester 1 each year.

To be eligible to participate in field studies (school-based teaching practicum), Study Abroad students must be accepted into and undertake the appropriate set of units as listed below. Students must be willing to travel to and be based in a rural or remote Queensland school for a 20-day practicum placement. Travel and living costs while on practicum are not covered by tuition fees. Due to high demand, QUT is unable to provide practicum placements to Study Abroad students in the greater Brisbane region.

Study Abroad students who wish to undertake Field Studies in Education must also obtain a Blue Card before their placement begins. A Blue Card confirms that you have passed a screening of your criminal history (the 'Working with Children Check') and have been approved to work with children and young people under 18 years of age. Because Blue Card processing can take 10-12 weeks, students should submit a Blue Card application with their Study Abroad application form. More information about Blue Cards is available at http://www.studentservices.qut.edu.au/enrol/course/spec_req/bluecard.jsp

Field Studies- Secondary Education

EDB002	Teaching and Learning Studies 2: Development and Learning
EDB031	Secondary Field Studies 1
	Plus 2 Curriculum Studies Units from the following list (corresponding with your approved teaching areas)
CLB051	Business Education Curriculum Studies 1
MDB015	Computing Curriculum Studies 1
CLB018	English Curriculum Studies 1
CLB021	English as a Second Language Curriculum Studies 1
CLB024	Film and Media Curriculum Studies 1
HMB292	Health Education Curriculum Studies 1
PUB343	Home Economics Curriculum Studies 1
CLB036	LOTE Curriculum Studies 1
MDB021	Mathematics Curriculum Studies 1
HMB231	Physical Education Curriculum Studies 1
MDB031	Science Education Curriculum Studies 1
CLB054	Social Education Curriculum Studies 1

Field Studies- Primary Education

EDB002	Teaching and Learning Studies 2: Development and Learning
EDB021	Primary Field Studies 1: Development and Learning in the Field
KKB202	Teaching Primary Dance and Drama
MDB006	Teaching Primary Science

Field Studies- Early Childhood Education

EDB011	Early Childhood Field Studies 1: Development and Learning in the Field
EAB013	Early Childhood Society Environment and Health Education
EAB027	Early Childhood Mathematics Education 1: Birth to Six Years

Education: Learning and Professional Studies

Education: Learning and Professional Studies- Semester 1

SPB018	Teaching Strategies

Education: Learning and Professional Studies- Semester 2

SPB008	Middle Years Students and Schools

Education: Mathematics, Science and Technology

Education: Mathematics, Science and Technology- Semester 1

MDB001	Foundation: Scientific and Quantitative Literacy
MDB004	Teaching Primary ICT
MDB005	Teaching Primary Design and Technology

MDB006	Teaching Primary Science
MDB120	Mathematics Curriculum and Pedagogies
MDB349	Excursions in Mathematical Reasoning
MDB388	Numeracy in Games of Skill and Chance
MDB391	Earth And Space

Education: Mathematics, Science and Technology- Semester 2

MDB002	Teaching Primary Mathematics 1
MDB030	Understanding and Educating Gifted Learners
MDB349	Excursions in Mathematical Reasoning
MDB397	Digital Media in Education
MDB454	Science, Technology and Society

Engineering Design

Engineering Design- Semester 1

DAB110	Architectural Design 1
DAB325	Architecture in the 20th Century
DAB330	Integrated Technologies 1
DAB525	Architecture and the City
DEB101	Introducing Design
DEB102	Introducing Design History
DLB130	Landscape Design 1
DLB310	Landscape Design 3
DLB330	Landscape Ecology
DLB510	Landscape Design 5
DLB525	History and Criticism of Landscape Design
DLB530	Landscape Construction 2
DNB101	Industrial Design 1
DNB302	Computer Aided Industrial Design
DNB303	Manufacturing Technology
DNB502	Industrial Design History, Theory and Criticism
DNB702	Human-centred Design Innovation
DTB101	Interior Design 1
DTB302	Colour Studies
DTB303	Technical Design
DTB502	Environments in Transition

Engineering Design- Semester 2

DAB210	Architectural Design 2
DAB220	Placemaking in Architecture
DAB420	Architecture, Culture and Space
DAB435	Architectural Technology 1
DEB201	Digital Communication
DEB601	Collaborative Design
DLB210	Landscape Design 2
DLB230	Landscape Horticulture
DLB430	Landscape Construction 1

DLB645	Landscape Practice and Law
DLB810	Landscape Planning and Policy
DNB201	Industrial Design 2
DNB202	Product Usability
DNB402	Socio-cultural Studies
DNB602	New Product Development
DTB201	Interior Design 2
DTB202	Design Technology
DTB402	Interior Systems
DTB403	Human Environment
DTB602	Design in Society

Engineering Systems

Engineering Systems- Semester 1

ENB211	Dynamics
ENB231	Materials and Manufacturing 1
ENB240	Introduction To Electronics
ENB242	Introduction To Telecommunications
ENB245	Introduction To Design and Professional Practice
ENB246	Engineering Problem Solving
ENB272	Geotechnical Engineering 1
ENB273	Civil Materials
ENB277	Construction Engineering Law
ENB301	Instrumentation and Control
ENB311	Stress Analysis
ENB315	Motor Racing Vehicle Design
ENB316	Design of Machine Elements
ENB319	Biomechanical Engineering Design
ENB331	Materials and Manufacturing 2
ENB333	Operations Management
ENB343	Fields, Transmission and Propagation
ENB348	Aircraft Systems and Flight Control
ENB350	Real-time Computer-based Systems
ENB372	Design and Planning of Highways
ENB375	Structural Engineering 2
ENB378	Water Engineering
ENB379	Transport Engineering and Planning Applications
ENB380	Environmental Law and Assessment
ENB381	Civil Engineering Construction
ENB384	Design of Masonry Structures
ENB421	Thermodynamics 2
ENB432	Engineering Asset Management and Maintenance
ENB435	Computer Integrated Manufacturing
ENB436	Mechatronics System Design
ENB441	Applied Image Processing

ENB443	Space Technology
ENB451	Aerospace Radio and Radar Systems
ENB455	Power Electronics
ENB471	Design of Concrete Structures and Foundations
ENB473	Design and Construction of Multi-storey Buildings
ENB478	Advanced Water Engineering
ENB485	Advanced Geotechnical Engineering Practice

Engineering Systems- Semester 2

ENB103	Electrical Engineering
ENB121	Aerodynamics
ENB201	Fluid Mechanics
ENB215	Fundamentals of Mechanical Design
ENB222	Thermodynamics 1
ENB241	Software Systems Design
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice
ENB274	Design of Environmentally Sustainable Systems
ENB275	Project Engineering 1
ENB276	Structural Engineering 1
ENB312	Dynamics of Machinery
ENB318	Biomechanical Engineering Systems
ENB321	Fluids Dynamics
ENB322	Biofluids
ENB334	Design For Manufacturing
ENB335	Modelling and Simulation For Medical Engineers
ENB336	Industrial Engineering
ENB338	Biomaterials
ENB344	Industrial Electronics
ENB346	Digital Communications
ENB347	Modern Flight Control Systems
ENB352	Communication Environments For Embedded Systems
ENB355	Advanced Systems Design
ENB356	Military Combat Electronics
ENB373	Design and Construction of Steel Structures
ENB376	Transport Engineering
ENB377	Water and Waste Water Treatment Engineering
ENB384	Design of Masonry Structures
ENB422	Energy Management
ENB437	Health Legislation in the Medical Environment
ENB444	Spacecraft Guidance and Navigation
ENB446	Wireless Communications

ENB447	Navigation Systems For Aircraft
ENB448	Signal Processing and Filtering
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB457	Controls, Systems and Applications
ENB458	Modern Control Systems
ENB472	Project Engineering 2
ENB474	Finite Element Methods
ENB481	Civil Engineering Project Management

Entertainment

Entertainment- Semester 1

KWB102	Media Writing
KXB101	Introduction to Entertainment
KXB201	Entertainment Practice: Balancing Creativity and Business

Entertainment- Semester 2

KXB102	Global Entertainment

Fashion

Fashion- Semester 1

KFB103	Introduction to Fashion
KFB107	Drawing for Fashion
KFB206	Fashion and Modernity

Fashion- Semester 2

KFB106	Unspeakable Beauty: A History of Fashion and Style
KFB207	Contemporary Fashion

Film, TV and New Media

Film, TV and New Media- Semester 1

KPB101	Introduction to Film, TV and New Media Production
KPB104	Film and Television Production Resource Management
KPB109	Film and TV History
KPB113	TV and Film Text Analysis
KPB203	Australian Film

Film, TV and New Media- Semester 2

KPB101	Introduction to Film, TV and New Media Production
KPB110	The Movie, TV & New Media Business
KPB112	TV and Film Genres
KPB205	Documentary Theory and Practice
KPB206	International Cinema

Games and Interactive Entertainment

Games and Interactive Entertainment- Semester 1

INB180	Computer Games Studies
INB280	Fundamentals of Game Design
INB281	Advanced Game Design

Games and Interactive Entertainment- Semester 2	
INB181	Introduction to Games Production
INB272	Interaction Design

Geography

Geography- Semester 1	
CLB109	World Regions
CLB110	Environment and Society
CLB111	Environmental Hazards
CLB112	South East Asia in Focus
CLB113	Australian Geographical Studies
CLB114	Geography in the Field

Geography- Semester 2	
CLB109	World Regions
CLB110	Environment and Society
CLB111	Environmental Hazards
CLB114	Geography in the Field

History

History- Semester 1	
CLB101	Australian Society and Culture
CLB102	Australian Historical Studies
CLB103	Interpreting the Past
CLB104	Colonialism and Independence in Asia-Pacific
CLB105	Australia and the South Pacific
CLB106	Modern China
CLB107	The Classical World
CLB108	Nations and Nationalism in Modern Europe

History- Semester 2	
CLB101	Australian Society and Culture
CLB102	Australian Historical Studies
CLB104	Colonialism and Independence in Asia-Pacific
CLB105	Australia and the South Pacific
CLB107	The Classical World

Human Movement Studies

Human Movement Studies- Semester 1	
HMB171	Fitness Health and Wellness
HMB305	Personal Health
HMB314	Alternative Physical Education
HMB338	Wellness Processes and Strategies

Human Movement Studies- Semester 2	
HMB172	Nutrition and Physical Activity
HMB278	Foundations of Movement for Educators
HMB315	Games Based Learning in Physical Activity and Sport
HMB333	Child and Adolescent Health

Indigenous Studies

Indigenous Studies- Semester 1	
EDB038	Indigenous Australian Culture Studies
EDB039	Indigenous Politics and Political Culture
EDB040	Indigenous Knowledge: Research Ethics and Protocols

Indigenous Studies- Semester 2	
EDB039	Indigenous Politics and Political Culture
EDB040	Indigenous Knowledge: Research Ethics and Protocols

Information Technology

Information Technology- Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
INB104	Building IT Systems
INB271	The Web
INB300	Professional Practice in IT
INB301	The Business of IT
INB335	Information Resources
INB345	Mobile Devices
INB347	Web 2.0 Applications
INB385	Multimedia Systems
INB860	Computational Intelligence for Control and Embedded Systems

Information Technology- Semester 2	
INB101	Impact of IT
INB102	Emerging Technology
INB104	Building IT Systems
INB250	Foundations of Computer Science
INB271	The Web
INB300	Professional Practice in IT
INB301	The Business of IT
INB335	Information Resources
INB346	Enterprise 2.0
INB386	Advanced Multimedia Systems

Interactive and Visual Design/Animation

Interactive and Visual Design/Animation- Semester 1	
KIB101	Visual Communication
KIB103	Introduction to Web Design and Development
KIB104	Digital Media

KIB108	Animation History and Practices
KIB203	Introduction to 3D Computer Graphics
KVB105	Drawing for Design

Interactive and Visual Design/Animation- Semester 2

KIB101	Visual Communication
KIB104	Digital Media
KIB105	Animation and Motion Graphics

Journalism

Journalism- Semester 1

KJB101	Digital Journalism
KJB120	Newswriting
KJB239	Journalism Ethics and Issues

Journalism- Semester 2

KJB101	Digital Journalism
KJB120	Newswriting
KKB175	Creative Industries Legal Issues

Justice Studies

Justice Studies- Semester 1

JSB171	Justice and Society
JSB172	Professional Criminological Research Skills
JSB175	Social Ethics and the Justice System
JSB272	Theories of Crime
JSB273	Crime Research Methods
JSB274	Policing in Context
JSB371	Indigenous Justice
JSB373	Punishment and Penal Policy
JSB415	Advanced Research Management
JSB971	Gender Crime and the Criminal Justice System

Justice Studies- Semester 2

JSB174	Forensic Psychology and the Law
JSB271	Policy Governance and Justice
JSB374	Crime Prevention
JSB376	Information Management and Analysis
JSB377	Intelligence and Security

Law

Law- Semester 1

LWB145	Legal Foundations A
LWB146	Legal Foundations B
LWB142	Law, Society and Justice

Law- Semester 2

| LWB145 | Legal Foundations A |
| LWB146 | Legal Foundations B |

| LWB144 | Laws and Global Perspectives |

Literary and Cultural Studies

Literary and Cultural Studies- Semester 1

| KWB208 | Modern Times (Literature and Culture in the 20th Century) |
| KWB209 | Shakespeare, Then and Now |

Literary and Cultural Studies- Semester 2

| KWB108 | Introduction To Literary Studies |
| KWB109 | Writing Australia |

Management and International Business

Management and International Business- Semester 1

MGB207	Human Resource Issues and Strategy
MGB223	Entrepreneurship and Innovation
MGB225	Intercultural Communication and Negotiation Skills
BSB115	Management
BSB119	Global Business
AMB210	Importing and Exporting

Management and International Business- Semester 2

MGB207	Human Resource Issues and Strategy
MGB223	Entrepreneurship and Innovation
MGB225	Intercultural Communication and Negotiation Skills
BSB115	Management
BSB119	Global Business
AMB210	Importing and Exporting

Media and Communication

Media and Communication- Semester 1

KCB101	Introduction to Media and Communication: Texts
KCB102	Media Myth Busting 1
KCB103	Strategic Speech Communication
KCB110	Introduction to Mass Communication
KCB203	Consumption Matters: Consumer Cultures and Identity
KCB205	Professional Communication

Media and Communication- Semester 2

KCB101	Introduction to Media and Communication: Texts
KCB103	Strategic Speech Communication
KCB104	Media and Communications: Industries
KCB105	Media Myth Busting 2
KCB202	New Media 2: Applications and Implications
KCB203	Consumption Matters: Consumer Cultures and Identity

KCB205   Professional Communication

Music and Sound Studies

Music and Sound Studies- Semester 1

KMB003   Sex Drugs Rock 'N' Roll
KMB004   World Music
KMB119   Music and Sound Production 1
KMB122   Music and Sound Concepts 1
KMB200   Music Scenes and Subcultures

Music and Sound Studies- Semester 2

KMB107   Sound, Image, Text

Network Systems

Network Systems- Semester 1

INB251   Networks
INB255   Security
INB312   Enterprise Systems Applications
INB350   Internet Protocols and Services
INB353   Wireless and Mobile Networks
INB355   Cryptology and Protocols

Network Systems- Semester 2

INB251   Networks
INB351   Unix Network Administration
INB352   Network Planning
INB365   Systems Programming

Psychology and Counselling

Psychology and Counselling- Semester 1

PYB000   Psychology in Professional Contexts
PYB007   Interpersonal Processes and Skills
PYB012   Psychology
PYB100   Foundation Psychology
PYB054   Psychology and Gender

Psychology and Counselling- Semester 2

PYB007   Interpersonal Processes and Skills
PYB067   Human Sexuality
PYB012   Psychology
PYB100   Foundation Psychology
PYB110   Psychological Research Methods
PYB102   Introduction to Psychology 1B
PYB203   Developmental Psychology

Public Health

Public Health- Semester 1

PUB104   Australian Health Care Systems
PUB105   Family Influences on Health and Development

PUB113   Design and Technology
PUB251   Contemporary Public Health
PUB332   Sustainable Environments For Health
PUB474   Food Science
PUB514   Contract/Project Management

Public Health- Semester 2

PUB201   Food and Nutrition
PUB209   Health, Culture and Society
PUB251   Contemporary Public Health
PUB321   Textile Studies
PUB355   Hospitality Studies
PUB336   Women's Health
PUB480   Health Administration Finance
PUB609   Health Resource Allocation
PUB611   Risk Management

Science and Mathematics

Science and Mathematics- Semester 1

SCB112   Cellular Basis of Life
SCB110   Science Concepts and Global Systems
SCB111   Chemistry 1
SCB121   Chemistry 2
MAB101   Statistical Data Analysis 1
MAB105   Preparatory Mathematics
MAB210   Statistical Modelling 1
MAB120   Algebra and Calculus
MAB121   Calculus and Differential Equations
MAB122   Algebra and Analytic Geometry
MAB125   Foundations of Engineering Mathematics
MAB126   Mathematics for Engineering 1
MAB127   Mathematics for Engineering 2

Science and Mathematics- Semester 2

SCB112   Cellular Basis of Life
NQB201   Planet Earth
NQB202   History of Life on Earth
SCB123   Physical Science Applications
SCB111   Chemistry 1
SCB121   Chemistry 2
MAB101   Statistical Data Analysis 1
MAB105   Preparatory Mathematics
MAB210   Statistical Modelling 1
MAB120   Algebra and Calculus
MAB121   Calculus and Differential Equations
MAB122   Algebra and Analytic Geometry
MAB125   Foundations of Engineering Mathematics
MAB126   Mathematics for Engineering 1

MAB127   Mathematics for Engineering 2

Social Work and Human Services

Social Work and Human Services- Semester 1

SWB100   Introduction to Human Services and Social Work

SWB102   The Human Condition

SWB105   Introduction to Human Rights and Ethics

SWB106   Applied Skills and Scholarship

SWB212   Community Work

SWB221   Social Work Processes and Methods

SWB223   People, Society and Social Work

SWB312   International Social Work

Social Work and Human Services- Semester 2

SWB103   Contemporary Social and Community Issues

SWB105   Introduction to Human Rights and Ethics

SWB106   Applied Skills and Scholarship

SWB200   Working in Human Service Organisations

SWB204   Child and Family Services: Introduction

SWB206   Disability Services: Introduction

SWB207   Services to Young People: Introduction

SWB211   Casework and Case Management

SWB214   Team Practice and Group Processes

SWB216   The Human Dimensions of Space

SWB218   Social Change, Politics, Policy and Activism

SWB219   Ethical and Legal Dimensions of Human Services and Social Work

SWB300   Current Developments in Human Services

SWB302   Social Policy Processes

Software Architecture

Software Architecture- Semester 1

INB270   Programming

INB312   Enterprise Systems Applications

INB321   Business Process Management

INB322   Information Systems Consulting

INB340   Database Design

INB370   Software Development

INB371   Data Structures and Algorithms

INB373   Web Application Development

INB381   Modelling and Animation Techniques

Software Architecture- Semester 2

INB210   Databases

INB270   Programming

INB272   Interaction Design

INB311   Enterprise Systems

INB313   Electronic Commerce Site Development

INB320   Business Process Modelling

INB341   Software Development With Oracle

INB372   Agile Software Development

INB374   Enterprise Software Architecture

INB382   Real Time Rendering Techniques

Urban Development

Urban Development- Semester 1

UDB101   Stewardship of Land

UDB110   Residential Construction and Engineering

UDB111   Engineering Construction Materials

UDB140   Property Valuation 1

UDB161   Introduction to Planning and Design

UDB162   History of Built Environment

UDB181   Geospatial Positioning and GPS

UDB210   Commercial Construction and Engineering

UDB211   Introductory Structural Engineering

UDB213   Construction Estimating

UDB216   The Environment and the Quantity Surveyor

UDB240   Planning Theory and Processes

UDB241   Property Law 1

UDB242   Property Valuation 2

UDB243   Property Economics

UDB265   Site Planning

UDB266   Planning Processes and Consultations

UDB281   Geographic Information Systems

UDB283   Surveying Computations

UDB285   Cadastral Surveying

UDB310   Highrise Construction and Engineering

UDB311   Structural Engineering Design

UDB312   Contract Administration

UDB313   Programming and Scheduling

UDB340   Agency Practice and Marketing

UDB341   Property Finance

UDB342   Real Estate Accounting and Taxation

UDB368   Urban Design

UDB381   Geospatial Mapping

UDB383   Control Surveying and Analysis

UDB385   Cadastral and Land Management

UDB387   Spatial and Land Information Management

UDB471   Urban Planning Practice

UDB473   Planning Theory and Ethics

UDB483   Global Positioning Principles and Practice

UDB485   Property Development Practice

Urban Development- Semester 2

UDB102   Applied Law

UDB104   Urban Development Economics

UDB112   Professional Studies 1

UDB113   Measurement 1

UDB141   Building Studies

UDB163   Land Use Planning

UDB164   Population and Urban Studies

UDB182   Surveying

UDB202   Business Skills

UDB212   Measurement 2

UDB214   Professional Studies 2

UDB215   Building Services Engineering

UDB244   Property Law 2

UDB245   Urban Land Studies

UDB246   Property Feasibility Studies

UDB267   Development Assessment and Infrastructure

UDB282   Remote Sensing

UDB284   Engineering Surveying

UDB314   Statutory Construction Law

UDB316   Cost Planning and Control

UDB344   Property and Asset Management

UDB370   Environmental Planning and Management

UDB382   Photogrammetric Mapping

UDB384   Geodesy

UDB388   Spatial Analysis Practice

UDB472   Community Planning

UDB474   Regional Planning Practice

UDB475   Regional and Metropolitan Policy

UDB484   Topographic, Hydrographic and Mining Surveying

UDB486   Cadastral Practice

Visual Arts

Visual Arts- Semester 1	
KVB102	Modernism
KVB104	Photomedia and Artistic Practice
KVB105	Drawing for Design
KVB110	2D Media and Processes
KVB200	Exhibition and Display in the Visual Arts
KVB212	Australian Art, Architecture and Design
KVB213	Graphic Investigation

Visual Arts- Semester 2	
KVB103	Australian Art
KVB104	Photomedia and Artistic Practice
KVB108	Contemporary Asian Visual Culture
KVB211	Post 1945 Art