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.gut.edu.au/assumed-knowledge

Total credit points: 480

Standard credit points per full-time semester: 48
Course coordinator: Dr R.Mahalinga-lyer (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@gut.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

	FACULTY OF SCIEN	<u>CE AND</u>	TECHNOLOGY
ENB250	Electrical Circuits	ENB453	Power Equipment and Utilisation
MAB220	Computational Mathematics 1	ENB456	Energy
MAB311	Advanced Calculus	ENB457	Controls, Systems and Applications
Voor 2 S	omenter 2	ENB458	Modern Control Systems
Year 2, Se ENB150		Course st	ructure - For students commencing in 20
	Introducing Engineering Design		and Maths C)
MAB210	Statistical Modelling 1		
MAB413	Differential Equations Mathematics Elective (Level 2)		For students with four semesters of both Senior Mathematics B and Senior Mathem C (or equivalent) with an exit assessment
Year 3, Se			least Sound Achievement in both subjects
ENB240	Introduction To Electronics	Year 1, Se	amastar 1
ENB246	Engineering Problem Solving	ENB100	
MAB312	Linear Algebra		Engineering and Sustainability
MAB314	Statistical Modelling 2	ENB130	Mechanical and Thermal Energy
Year 3, Se	emester 2	MAB121	Calculus and Differential Equations
ENB242	Introduction To Telecommunications	MAB122	Algebra and Analytic Geometry
ENB243	Linear Circuits and Systems	Year 1, Se	emester 2
ENB244	Microprocessors and Digital Systems	ENB200	Introducing Engineering Systems
ENB245	Introduction To Design and Professional	ENB120	Electrical Energy and Measurements
LINDZ-TO	Practice	MAB101	Statistical Data Analysis 1
Year 4, Se	omostor 1	MAB220	Computational Mathematics 1
ENB301	Instrumentation and Control	V0 0-	
ENB340	Power Systems and Machines	Year 2, Se	
ENB342	Signals, Systems and Transforms	ENB110 ENB250	Engineering Statics and Materials
LINDOTZ	Mathematics Elective (Level 3)		Electrical Circuits
	Mathematics Elective (Eevel o)	MAB210 MAB311	Statistical Modelling 1 Advanced Calculus
Year 4, Se	emester 2	IVIADSTI	Advanced Calculus
ENB345	Advanced Design and Professional Practice	Year 2, Se	emester 2
MAB414	Applied Statistics 2	ENB150	Introducing Engineering Design
	Mathematics Elective (Level 3)	MAB413	Differential Equations
	Mathematics Elective (Level 3)		Mathematics Elective (Level 2)
Year 5, Se	emester 1		Mathematics Elective (Level 2)
BEB701	Work Integrated Learning 1	Year 3, Se	emester 1
BEB801	Project 1	ENB240	Introduction To Electronics
ENB241	Software Systems Design	ENB246	Engineering Problem Solving
	OR Electrical Engineering Selective	MAB312	Linear Algebra
ENB346	Digital Communications	MAB314	Statistical Modelling 2
V- 5 6	<u> </u>		
Year 5, Se		Year 3, Se	
BEB802	Project 2	ENB242	Introduction To Telecommunications
ENB344	Industrial Electronics	ENB243	Linear Circuits and Systems
	Electrical Engineering Selective	ENB244	Microprocessors and Digital Systems
Electrical	Mathematics Elective (Level 3)	ENB245	Introduction To Design and Professional Practice
ENB339	Engineering Selectives Introduction to Robotics	Year 4, Se	emester 1
		ENB241	Software Systems Design
ENB448	Signal Processing and Filtering	- · ·	OR Electrical Engineering Selective
ENB452	Advanced Power Systems Analysis		2 Lissansa. Linginsoning Coloure

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

Year 4, Semester 1		
ENB301	Instrumentation and Control	
ENB340	Power Systems and Machine	

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
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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)

	FACULTY OF SCIENCE	E AND	TECHNOLOGY	
Electrical Engineering Selectives MAB312 Linear Algebra				
ENB339	Introduction to Robotics	MAB314	Statistical Modelling 2	
ENB440	RF Techniques and Modern Applications		<u> </u>	
ENB441	Applied Image Processing	Year 3, Se		
ENB445	RF Communication Technologies	ENB245	Introduction To Design and Professional Practice	
ENB446 ENB448	Wireless Communications	ENB352	Communication Environments For Embedded Systems	
ENB452	Signal Processing and Filtering	MAB414	Applied Statistics 2	
	Advanced Power Systems Analysis		Mathematics elective (Level 2)	
ENB453	Power Equipment and Utilisation		· · · ·	
ENB454	Power System Management Power Electronics	Year 4, Se		
ENB455		ENB301	Instrumentation and Control	
ENB456	Energy	ENB340	Power Systems and Machines	
ENB457	Controls, Systems and Applications	ENB342	Signals, Systems and Transforms	
INB353 INB860	Wireless and Mobile Networks Computational Intelligence for Control and		Mathematics elective (Level 2)	
1140000	Embedded Systems	Year 4, Se	mester 2	
Course st	ructure - For students commencing in 2007 &	ENB345	Advanced Design and Professional Practice	
2008 (Math	_	ENB346	Digital Communications	
		ENB458	Modern Control Systems	
	For students with four semesters of Senior		Mathematics elective (Level 3)	
Mathematics B (or equivalent) only, with an exit assessment of at least Sound Achievement.		Year 5, Semester 1		
		BEB701	Work Integrated Learning 1	
Year 1, Se	mester 1	BEB801	Project 1	
BEB100	Introducing Professional Learning	DEDOUT	•	
MAB100	Mathematical Sciences 1A		Electrical Engineering Selective	
MAB101	Statistical Data Analysis 1		Mathematics elective (Level 3)	
PCB136	Engineering Physics 1C	Year 5, Se	mester 2	
Voor 1 Co	mantar 2	BEB802	Project 2	
Year 1, Se		ENB344	Industrial Electronics	
ENB101	Engineering Mechanics 1		Mathematics elective (Level 3)	
ENB103	Electrical Engineering		Mathematics elective (Level 3)	
MAB111	Mathematical Sciences 1B	Electrical F	Engineering Coloctives	
MAB112	Mathematical Sciences 1C	ENB339	Engineering Selectives Introduction to Robotics	
Year 2, Se	mester 1	ENB440	RF Techniques and Modern Applications	
ENB240	Introduction To Electronics	ENB441		
ENB246	Engineering Problem Solving		Applied Image Processing	
MAB220	Computational Mathematics 1	ENB445	RF Communication Technologies	
MAB311	Advanced Calculus	ENB446	Wireless Communications	
		ENB448	Signal Processing and Filtering	
Year 2, Se		ENB452	Advanced Power Systems Analysis	
ENB243	Linear Circuits and Systems	ENB453	Power Equipment and Utilisation	
ENB244	Microprocessors and Digital Systems	ENB454	Power System Management	
MAB210	Statistical Modelling 1	ENB455	Power Electronics	
MAB413	Differential Equations	ENB456	Energy	
Year 3, Se	mester 1	ENB457	Controls, Systems and Applications	
ENB242	Introduction To Telecommunications	INB353	Wireless and Mobile Networks	
ENB350	Real-time Computer-based Systems	INB860	Computational Intelligence for Control and Embedded Systems	
L14D000	real time computer-based cystems		Embouded 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

Introducing Professional Learning
Mathematical Sciences 1A
Statistical Data Analysis 1
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

Teal 5, Sel	HESIEI Z
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

104, 0, 0011100101	
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

MAB220 Computational Mathematics 1			Engineering Selectives
Year 2, Se	emester 1	ENB339	Introduction to Robotics
ENB110	Engineering Statics and Materials	ENB448	Signal Processing and Filtering
ENB250	Electrical Circuits	ENB452	Advanced Power Systems Analysis
MAB210	Statistical Modelling 1	ENB453	Power Equipment and Utilisation
MAB311	Advanced Calculus	ENB456	Energy
		ENB457	Controls, Systems and Applications
Year 2, Se	emester 2	ENB458	Modern Control Systems
ENB150	Introducing Engineering Design	Course st	ructure - For students commencing in 2009
MAB413	Differential Equations		and Maths C)
	Mathematics Elective (Level 2)		
	Mathematics Elective (Level 2)		For students with four semesters of both
Year 3, Se	emester 1		Senior Mathematics B and Senior Mathematics C (or equivalent) with an exit assessment of at
ENB240	Introduction To Electronics		least Sound Achievement in both subjects.
ENB246	Engineering Problem Solving		
MAB312	Linear Algebra	Year 1, Se	emester 1
MAB314	Statistical Modelling 2	BEB100	Introducing Professional Learning
IVIAD314	Statistical Modelling 2	MAB111	Mathematical Sciences 1B
Year 3, Se	emester 2	MAB112	Mathematical Sciences 1C
ENB242	Introduction To Telecommunications	PCB136	Engineering Physics 1C
ENB243	Linear Circuits and Systems	Year 1, Se	emester 2
ENB244	Microprocessors and Digital Systems	ENB101	Engineering Mechanics 1
ENB245	Introduction To Design and Professional	ENB101	Electrical Engineering
	Practice	MAB101	Statistical Data Analysis 1
		IVIADIOI	Statistical Data Arialysis 1
Year 4, Se	emester 1	MAR220	Computational Mathematics 1
Year 4, Se ENB241		MAB220	Computational Mathematics 1
	Software Systems Design	MAB220 Year 2, Se	·
			·
ENB241 ENB301	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control	Year 2, Se	emester 1
ENB241	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines	Year 2, Se ENB240	emester 1 Introduction To Electronics
ENB301 ENB340 ENB342	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms	Year 2, Se ENB240 ENB246	emester 1 Introduction To Electronics Engineering Problem Solving
ENB301 ENB340 ENB342 Year 4, Se	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2	Year 2, Se ENB240 ENB246 MAB210 MAB311	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus
ENB301 ENB340 ENB342 Year 4, Se ENB344	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics	Year 2, Se ENB240 ENB246 MAB210 MAB311 Year 2, Se	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus
ENB301 ENB340 ENB342 Year 4, Se	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice	Year 2, Se ENB240 ENB246 MAB210 MAB311 Year 2, Se BEB200	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus emester 2 Introducing Sustainability
ENB301 ENB340 ENB342 Year 4, Se ENB344	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice Applied Statistics 2	Year 2, Se ENB240 ENB246 MAB210 MAB311 Year 2, Se BEB200 ENB243	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus emester 2 Introducing Sustainability Linear Circuits and Systems
ENB301 ENB340 ENB342 Year 4, Se ENB344 ENB345	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice	Year 2, Se ENB240 ENB246 MAB210 MAB311 Year 2, Se BEB200 ENB243 ENB244	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus emester 2 Introducing Sustainability Linear Circuits and Systems Microprocessors and Digital Systems
ENB241 ENB301 ENB340 ENB342 Year 4, Se ENB344 ENB345 MAB414	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice Applied Statistics 2 Mathematics Elective (Level 3)	Year 2, Se ENB240 ENB246 MAB210 MAB311 Year 2, Se BEB200 ENB243	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus emester 2 Introducing Sustainability Linear Circuits and Systems
ENB241 ENB301 ENB340 ENB342 Year 4, Se ENB344 ENB345 MAB414	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice Applied Statistics 2 Mathematics Elective (Level 3)	Year 2, Se ENB240 ENB246 MAB210 MAB311 Year 2, Se BEB200 ENB243 ENB244	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus Emester 2 Introducing Sustainability Linear Circuits and Systems Microprocessors and Digital Systems Differential Equations
ENB241 ENB301 ENB340 ENB342 Year 4, Se ENB344 ENB345 MAB414 Year 5, Se BEB801	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice Applied Statistics 2 Mathematics Elective (Level 3) emester 1 Project 1	Year 2, Se ENB240 ENB246 MAB210 MAB311 Year 2, Se BEB200 ENB243 ENB244 MAB413	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus Emester 2 Introducing Sustainability Linear Circuits and Systems Microprocessors and Digital Systems Differential Equations
ENB241 ENB301 ENB340 ENB342 Year 4, Se ENB344 ENB345 MAB414	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice Applied Statistics 2 Mathematics Elective (Level 3) emester 1 Project 1 Digital Communications	Year 2, Se ENB240 ENB246 MAB210 MAB311 Year 2, Se BEB200 ENB243 ENB244 MAB413	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus emester 2 Introducing Sustainability Linear Circuits and Systems Microprocessors and Digital Systems Differential Equations
ENB241 ENB301 ENB340 ENB342 Year 4, Se ENB344 ENB345 MAB414 Year 5, Se BEB801	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice Applied Statistics 2 Mathematics Elective (Level 3) emester 1 Project 1 Digital Communications Mathematics Elective (Level 3)	Year 2, Se ENB240 ENB246 MAB210 MAB311 Year 2, Se BEB200 ENB243 ENB244 MAB413 Year 3, Se ENB242	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus Emester 2 Introducing Sustainability Linear Circuits and Systems Microprocessors and Digital Systems Differential Equations Emester 1 Introduction To Telecommunications
ENB241 ENB301 ENB340 ENB342 Year 4, Se ENB344 ENB345 MAB414 Year 5, Se BEB801	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice Applied Statistics 2 Mathematics Elective (Level 3) emester 1 Project 1 Digital Communications	Year 2, See ENB240 ENB246 MAB210 MAB311 Year 2, See BEB200 ENB243 ENB244 MAB413 Year 3, See ENB242 ENB350	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus Emester 2 Introducing Sustainability Linear Circuits and Systems Microprocessors and Digital Systems Differential Equations Emester 1 Introduction To Telecommunications Real-time Computer-based Systems
ENB241 ENB301 ENB340 ENB342 Year 4, Se ENB344 ENB345 MAB414 Year 5, Se BEB801	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice Applied Statistics 2 Mathematics Elective (Level 3) emester 1 Project 1 Digital Communications Mathematics Elective (Level 3) Mathematics Elective (Level 3)	Year 2, See ENB240 ENB246 MAB210 MAB311 Year 2, See BEB200 ENB243 ENB244 MAB413 Year 3, See ENB242 ENB350 MAB312 MAB314	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus Emester 2 Introducing Sustainability Linear Circuits and Systems Microprocessors and Digital Systems Differential Equations Emester 1 Introduction To Telecommunications Real-time Computer-based Systems Linear Algebra Statistical Modelling 2
ENB241 ENB301 ENB340 ENB342 Year 4, Se ENB344 ENB345 MAB414 Year 5, Se BEB801 ENB346	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice Applied Statistics 2 Mathematics Elective (Level 3) emester 1 Project 1 Digital Communications Mathematics Elective (Level 3) Mathematics Elective (Level 3)	Year 2, See ENB240 ENB246 MAB210 MAB311 Year 2, See BEB200 ENB243 ENB244 MAB413 Year 3, See ENB242 ENB350 MAB312 MAB314 Year 3, See	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus Emester 2 Introducing Sustainability Linear Circuits and Systems Microprocessors and Digital Systems Differential Equations Emester 1 Introduction To Telecommunications Real-time Computer-based Systems Linear Algebra Statistical Modelling 2
ENB241 ENB301 ENB340 ENB342 Year 4, Se ENB344 ENB345 MAB414 Year 5, Se BEB801 ENB346	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice Applied Statistics 2 Mathematics Elective (Level 3) emester 1 Project 1 Digital Communications Mathematics Elective (Level 3) Mathematics Elective (Level 3) emester 2	Year 2, See ENB240 ENB246 MAB210 MAB311 Year 2, See BEB200 ENB243 ENB244 MAB413 Year 3, See ENB242 ENB350 MAB312 MAB314	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus Emester 2 Introducing Sustainability Linear Circuits and Systems Microprocessors and Digital Systems Differential Equations Emester 1 Introduction To Telecommunications Real-time Computer-based Systems Linear Algebra Statistical Modelling 2 Emester 2 Introduction To Design and Professional
ENB241 ENB301 ENB340 ENB342 Year 4, Se ENB344 ENB345 MAB414 Year 5, Se BEB801 ENB346	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice Applied Statistics 2 Mathematics Elective (Level 3) emester 1 Project 1 Digital Communications Mathematics Elective (Level 3) Mathematics Elective (Level 3) emester 2 Work Integrated Learning 1	Year 2, See ENB240 ENB246 MAB210 MAB311 Year 2, See BEB200 ENB243 ENB244 MAB413 Year 3, See ENB242 ENB350 MAB312 MAB314 Year 3, See ENB245	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus Emester 2 Introducing Sustainability Linear Circuits and Systems Microprocessors and Digital Systems Differential Equations Emester 1 Introduction To Telecommunications Real-time Computer-based Systems Linear Algebra Statistical Modelling 2 Emester 2 Introduction To Design and Professional Practice
ENB241 ENB301 ENB340 ENB342 Year 4, Se ENB344 ENB345 MAB414 Year 5, Se BEB801 ENB346	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice Applied Statistics 2 Mathematics Elective (Level 3) emester 1 Project 1 Digital Communications Mathematics Elective (Level 3) Mathematics Elective (Level 3) emester 2 Work Integrated Learning 1 Project 2	Year 2, See ENB240 ENB246 MAB210 MAB311 Year 2, See BEB200 ENB243 ENB244 MAB413 Year 3, See ENB242 ENB350 MAB312 MAB314 Year 3, See	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus Emester 2 Introducing Sustainability Linear Circuits and Systems Microprocessors and Digital Systems Differential Equations Emester 1 Introduction To Telecommunications Real-time Computer-based Systems Linear Algebra Statistical Modelling 2 Emester 2 Introduction To Design and Professional
ENB241 ENB301 ENB340 ENB342 Year 4, Se ENB344 ENB345 MAB414 Year 5, Se BEB801 ENB346	Software Systems Design OR Electrical Engineering Selective Instrumentation and Control Power Systems and Machines Signals, Systems and Transforms emester 2 Industrial Electronics Advanced Design and Professional Practice Applied Statistics 2 Mathematics Elective (Level 3) emester 1 Project 1 Digital Communications Mathematics Elective (Level 3) Mathematics Elective (Level 3) emester 2 Work Integrated Learning 1 Project 2 Electrical Engineering Selective	Year 2, See ENB240 ENB246 MAB210 MAB311 Year 2, See BEB200 ENB243 ENB244 MAB413 Year 3, See ENB242 ENB350 MAB312 MAB314 Year 3, See ENB245	Introduction To Electronics Engineering Problem Solving Statistical Modelling 1 Advanced Calculus Emester 2 Introducing Sustainability Linear Circuits and Systems Microprocessors and Digital Systems Differential Equations Emester 1 Introduction To Telecommunications Real-time Computer-based Systems Linear Algebra Statistical Modelling 2 Emester 2 Introduction To Design and Professional Practice Communication Environments For Embedded

FACULTY OF SCIENCE AND TECHNOLOGY Mathematics elective (Level 2) BEB100 Introducing Professional Learning MAB111 Mathematical Sciences 1B Year 4, Semester 1 Mathematical Sciences 1C MAB112 **ENB301** Instrumentation and Control **PCB136 Engineering Physics 1C ENB340** Power Systems and Machines **ENB342** Signals, Systems and Transforms Year 1, Semester 2 Mathematics elective (Level 2) **ENB101 Engineering Mechanics 1 ENB103 Electrical Engineering** Year 4, Semester 2 MAB101 Statistical Data Analysis 1 **ENB345** Advanced Design and Professional Practice MAB210 Statistical Modelling 1 **ENB346 Digital Communications** Year 2, Semester 1 **ENB458** Modern Control Systems Mathematics elective (Level 3) **ENB240** Introduction To Electronics **ENB246 Engineering Problem Solving** Year 5, Semester 1 MAB220 Computational Mathematics 1 BEB701 Work Integrated Learning 1 MAB311 Advanced Calculus **BEB801** Project 1 Year 2, Semester 2 **Electrical Engineering Selective** Mathematics elective (Level 3) **ENB243** Linear Circuits and Systems **ENB244** Microprocessors and Digital Systems Year 5, Semester 2 **MAB413 Differential Equations** BEB802 Project 2 Mathematics elective (Level 2 or 3) **ENB344** Industrial Electronics Year 3, Semester 1 Mathematics elective (Level 3) Mathematics elective (Level 3) **ENB242** Introduction To Telecommunications **ENB350** Real-time Computer-based Systems **Electrical Engineering Selectives** MAB312 Linear Algebra **ENB339** Introduction to Robotics MAB314 Statistical Modelling 2 **ENB440** RF Techniques and Modern Applications **ENB441** Applied Image Processing Year 3, Semester 2 **ENB445** RF Communication Technologies **ENB245** Introduction To Design and Professional Practice **ENB446** Wireless Communications Communication Environments For Embedded **ENB352 ENB448** Signal Processing and Filtering Systems **ENB452** Advanced Power Systems Analysis **MAB414** Applied Statistics 2 **ENB453** Power Equipment and Utilisation Mathematics elective (Level 2) **ENB454 Power System Management** Year 4, Semester 1 **ENB455 Power Electronics** ENB301 Instrumentation and Control **ENB456** Energy **ENB340** Power Systems and Machines **ENB457** Controls, Systems and Applications **ENB342** Signals, Systems and Transforms **INB353** Wireless and Mobile Networks Mathematics elective (Level 2) **INB860** Computational Intelligence for Control and Embedded Systems Year 4, Semester 2 Course structure - For students commencing in 2007 & **ENB345** Advanced Design and Professional Practice **ENB346 Digital Communications ENB458** Modern Control Systems

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

Year 5, Semester 1 **BEB701** Work Integrated Learning 1

Mathematics elective (Level 3)

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

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

Embedded Systems

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.

Computational Intelligence for Control and

Year 1, Semester 1

INB860

Introducing Professional Learning
Mathematical Sciences 1B
Mathematical Sciences 1C
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 relecommunications
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

ENB344	Industrial Electronics
	Mathematics elective (Level 3)
	Mathematics elective (Level 3)

Electrical Engineering Selectives

Project 2

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

Information Technology Elective Unit List

IT 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

	FACULTY OF SCI
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

Potential Careers:

MAB281

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.

Mathematics for Computer Graphics

Bachelor of Business / Bachelor of	II.
Information Technology (IF48)	II.
Year offered: 2011	II.

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.gut.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
null	
	This course has been discontinued. Curren enrolled students should check with the

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

	FACULTY OF SCIENC	CE AND	TECHNOLOGY
BSB114	is replaced by BSB124 Working in Business	IBB213	is now AMB336 International Marketing
BSB115 BSB119	now retitled BSB115 Management now retitled BSB119 Global Business	IBB217	IBB217 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
BSB122	is replaced by BSB123 Data Analysis	IBB300	is now AMB369 International Business Strategy
	ncy Core units	IBB308	is replaced by MGB340 International Business
AYB121	is now AYB200 Financial Accounting AYB121		in the Asia-Pacific
AYB220	is now AYB340 Company Accounting AYB220	Managem	ent Core units
AYB301	now retitled AYB301 Audit and Assurance	MGB310	Sustainability in a Changing Environment was
Advertising	g Core units		formerly known as MGB212 and MGB334
AMB221	is now AMB318 Advertising Copywriting	Marketing	Core units
AMB222	is now AMB319 Media Planning	AMB241	is now AMB335 E-Marketing Strategies
AMB321	is now AMB339 Advertising Campaigns	AMB341	is now AMB359 Strategic Marketing
Banking a	nd Finance Core units	Public Rel	ations Core units
EFB101	is replaced by EFB222 Quantitative Methods for Economics and Finance	AMB260	is replaced by AMB263 Introduction to Public Relations
EFB102	now retitled EFB223 Economics 2	AMB360	is replaced by AMB373 Corporate Communication
Economics	s Core units	AMB361	is replaced by AMB379 Public Relations
EFB101	is replaced by EFB222 Quantitative Methods for Economics and Finance		Campaigns
EFB102	now retitled EFB223 Economics 2		Law and Tax Extended Major (BLX)
EFB202	is replaced by EFB330 Intermediate	AYB223	replaced by AYB230 Corporations Law
EFB211	Macroeconomics is replaced by EFB331 Intermediate	AYB325	is now AYB219 Taxation Law
EFBZII	Microeconomics	AYB305	is replaced by AYB205 Law of Business Entities
EFB314	is replaced by EFB336 International Economics	AYB312	is now AYB232 Financial Institutions
EFB329	is now EFB338 Contemporary Application of	Profession	nal Accounting Extended Major (PAX)
	Economic	AYB223	is replaced by AYB230 Corporations Law
Electronic	Business Core units	AYB325	is now AYB219 Taxation Law
BSB212	is replaced by AYB114 Business Technologies	Advertisin	g Extended Major (ADX)
BSB213	is replaced by AYB115 Governance Issus and Fraud	AMB230	now retitled AMB230 Digital Promotions
BSB314	is replaced by Forensic and Business Intelligence	AMB330	now retitled AMB330 Advertising Planning Portfolio
ITB233	is now INB312 Enterprise Systems Application	Banking F	extended Major (BFX)
ITB823	is now INB830 Web Sites for E-Commerce	AYB312	is now AYB232 Financial Institutions Law
ITB239	is now INB342 Enterprise Data Mining	EFB200	is replaced by EFB333 Introductory Econometrics
Human Re	esource Management Core units	EFB318	is replaced by EFB335 Investments
MGB220	now retitled MGB220 Business Research Methods		Economics Extended Major (FEX) (for Banking &
MGB221 is now MGB339 Performance and Reward Finance Students)			
Internation	nal Business Core units	EFB200	is replaced by EFB333 Introductory Econometrics

EFB202

EFB211

EFB325

is replaced by EFB330 Intermediate

is replaced by EFB331 Intermediate

is replaced by EFB336 International

Macroeconomics

Microeconomics

Economics

is replaced by EFB240 Finance for International Business

IBB208 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)

is now replaced by AMB210 Importing and

IBB202

IBB208

IBB210

Exporting

FACULTY OF SCIENCE AND TECHNOLOGY **EFB318** is replaced by EFB335 Investments Cases AMB371 is replaced by AMB375 Public Relations is replaced by EFB337 Game Theory and **EFB324** Management Applications Business Law and Tax Specialisation (BLS) Financial Economics Extended Major (FEX) (for Economics Students) AYB223 is replaced by AYB230 Corporations Law **EFB200** is replaced by EFB333 Introductory **AYB325** is now AYB219 Taxation Law **Econometrics** AYB305 is now AYB205 Company Law & Practice **EFB324** is replaced by EFB201 Financial Markets AYB312 is now AYB232 Financial Institutions Law **EFB325** is replaced by EFB337 Game Theory and **BSB213** is now AYB115 Governance Issues in E-Applications **Business** Funds Management Extended Major (FDX) Electronic Business Specialisation (EUS) **EFB318** is replaced by EFB335 Investments **BSB212** is replaced by AYB114 Business Technologies is now AYB232 Financial Institutions Law **AYB312** is replaced by AYB115 Governance Issues and **BSB213 EFB200** is replaced by EFB333 Introductory **Econometrics BSB314** is replaced by AYB341 Forensic and Business Intelligence Human Resource Management Extended Major (HRX) ITB233 is now INB312 Enterprise Systems is now MGB370 Personal and Professional MGB315 **Applications** Development ITB823 is now INB830 Web Sites for E-Commerce **IBB205** is now MGB225 Intercultural Communication and Negotiation Skills ITB239 is now INB342 Enterprise Data Mining Sustainability in a Changing Environment was MGB310 Financial Economics Specialisation (FES) formerly known as MGB212 and MGB334 **EFB102** is replaced by EFB223 Economics 2 International Business Extended Major (IBX) **EFB202** is replaced by EFB330 Intermediate is now MGB225 Intercultural Communication **IBB205** Macroeconomics and Negotiation Skills **EFB211** is replaced by EFB331 Intermediate **IBB303** is now AMB303 International Logistics Microeconomics **AMB230** now retitled AMB230 Digital Promotions **EFB329** is now 338 Contemporary Applications of **Economics IBB312** is replaced by AMB300 Independent Project 1 **EFB314** is replaced by EB336 International Economics Management Extended Major (MNX) is replaced by EFB201 Financial Markets **EFB324 IBB205** is now MGB225 Intercultural Communication **EFB325** is replaced by EFB337 Game Theory and and Negotiation Skills Applications MGB218 is now MGB324 Managing Business Growth Integrated Marketing Communication Specialisation (IMS) MGB315 is now MGB370 Personal & Professional Development AMB260 is replaced by AMB263 Introduction to Public Relations **IBB210** is replaced by AMB210 Import and Exporting **AMB230** now retitled AMB230 Digital Promotions **IBB303** is now AMB303 International Logistics **AMB354** is now AMB208 Events Marketing Marketing Extended Major (MKX) AMB251 now retitled AMB251 Innovation and Brand Management

Internation	al 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 Spec	cialisation (SALES)
ΔMR230	now retitled AMR2

AMB230 now retitled AMB230 Digital Promotion

AMB250 is replaced by MGB225 Intercultural

Communication and Negotiation Skills

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

is now AMB209 Tourism Marketing

is now AMB208 Events Marketing

is replaced by AMB263 Introduction to Public

is replaced by AMB252 Business Decision

AMB260

AMB351

AMB352

AMB354

Relations

Making

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@gut.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

Maior)

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 industrysponsored 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

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

Information Resources

Course structure

MAB281

INB335

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.

Mathematics for Computer Graphics

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-lyer (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

CRICOS Code: 042203G

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)

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@gut.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	SCB120	Plant and Animal Physiology
	Discipline Major Unit or Minor Unit or Elective unit - Arts	SCB121	Chemistry 2
	Two Science Major units (SC01 Level 3)	Year 2, Se	emester 1
/oor 1 Sc	emester 2	SCB110	Science Concepts and Global Systems
real 4, Se	Major Unit - Arts		Plus either:
	•	MAB101	Statistical Data Analysis 1
	Discipline Major Unit or Elective		Or
	Two Science Major units (SC01 Level 3)	MAB105	Preparatory Mathematics
ourse st	ructure - Major in Biochemistry	Year 2, Se	emester 2
∕ear 1, Se	emester 1	SCB122	Cell and Molecular Biology
SCB111	Chemistry 1	SCB123	Physical Science Applications
SCB112	Cellular Basis of Life	V 0.5	•
		Year 3, Se	
	emester 2 (Life Sciences Pre-Major Strand)	LQB381	Biochemistry: Structure and Function
SCB120	Plant and Animal Physiology	LQB383	Molecular and Cellular Regulation
SCB121	Chemistry 2	Year 3, Se	emester 2
∕ear 2, Se	emester 1	LQB483	Molecular Biology Techniques
SCB110	Science Concepts and Global Systems	LQB484	Introduction to Genomics and Bioinformatics
	Plus either:	V 1 C-	
//AB101	Statistical Data Analysis 1	Year 4, Se	
	Or	LODESS	TWO units selected from:
//AB105	Preparatory Mathematics	LQB583	Genetic Research Technology
		LQB584	Medical Cell Biology
	emester 2	LQB585	Plant Genetic Manipulation
SCB122	Cell and Molecular Biology	Year 4, Se	emester 2
SCB123	Physical Science Applications		TWO units selected from:
ear 3, Se	emester 1	LQB682	Protein Biochemistry and Bioengineering
QB381	Biochemistry: Structure and Function	LQB684	Medical Biotechnology
QB383	Molecular and Cellular Regulation	LQB685	Plant Microbe Interactions
∕ear 3, Se	emester 2	Course st	ructure - Major in Chemistry
QB481	Biochemical Pathways and Metabolism	V20# 1 C	amostor 1
QB483	Molecular Biology Techniques	Year 1, Se	
	••	SCB111	Chemistry 1
ear 4, Se		NAA DAAA	Plus either:
QB581	Functional Biochemistry	MAB101	Statistical Data Analysis 1
QB582	Biomedical Research Technologies	N4AD405	Or
ear 4. Se	emester 2	MAB105	Preparatory Mathematics
.QB681	Biochemical Research Skills	Year 1, Se	emester 2 (Chemistry Pre-Major Strand)
	Protein Biochemistry and Bioengineering	SCB112	Cellular Basis of Life
QB682	Protein biochemistry and bioendineering	000112	Collidial Baolo of Elio

Year 2, Semester 1

Year 2, Semester 2

Algebra and Calculus

Science Concepts and Global Systems

Physical Science Applications

MAB120

SCB110

SCB123

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Year 1, Semester 1

Chemistry 1

Cellular Basis of Life

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

SCB111

SCB112

FACULTY OF SCIENCE AND TECHNOLOGY SCB131 **Experimental Chemistry** NQB622 Conservation Biology **Ecological Systems NQB623** Year 3, Semester 1 **Course structure - Major in Environmental Science** Analytical Chemistry For Scientists and **PQB312 Technologists** Year 1, Semester 1 **PQB331** Structure and Bonding SCB111 Chemistry 1 Year 3, Semester 2 SCB112 Cellular Basis of Life **PQB401** Reaction Kinetics, Thermodynamics and Mechanisms Year 1, Semester 2 (Ecology and Environmental Science PQB442 Chemical Spectroscopy Pre-Major Strand) SCB120 Plant and Animal Physiology Year 4, Semester 1 SCB121 Chemistry 2 **PQB502** Advanced Physical Chemistry **PQB531** Organic Mechanisms and Synthesis Year 2, Semester 1 **SCB110** Science Concepts and Global Systems Year 4, Semester 2 Plus either: PQB631 Advanced Inorganic Chemistry MAB101 Statistical Data Analysis 1 PQB642 Chemical Research Course structure - Major in Ecology MAB105 **Preparatory Mathematics** Year 1, Semester 1 Year 2, Semester 2 SCB111 **NQB202** History of Life on Earth Chemistry 1 SCB112 Cellular Basis of Life SCB123 **Physical Science Applications** Year 1, Semester 2 (Ecology and Environmental Science Year 3, Semester 1 Pre-Major Strand) NQB302 Earth Surface Systems SCB120 Plant and Animal Physiology **NQB321 Ecology** Cell and Molecular Biology SCB122 Year 3, Semester 2 Year 2, Semester 1 NQB403 Soils and the Environment SCB110 Science Concepts and Global Systems **NQB421 Experimental Design** Plus either: Year 4, Semester 1 MAB101 Statistical Data Analysis 1 **Environmental Modelling** NQB501 Or NQB502 Field Methods in Natural Resource Sciences MAB105 **Preparatory Mathematics** Year 4, Semester 2 Year 2, Semester 2 **NQB601** Sustainable Environmental Management NQB201 Planet Earth **NQB602 Environmental Chemistry** NQB202 History of Life on Earth Course structure - Major in Forensic Science Year 3, Semester 1 **NQB302** Earth Surface Systems Year 1, Semester 1 NQB321 **Ecology** SCB111 Chemistry 1 **SCB112** Cellular Basis of Life Year 3, Semester 2 NQB421 **Experimental Design** Year 1, Semester 2 (Forensic Science Pre-Major Strand) NQB422 Genetics and Evolution SCB121 Chemistry 2 SCB122 Cell and Molecular Biology Year 4, Semester 1 NQB521 Population Genetics and Molecular Ecology

NQB523

Year 4, Semester 2

Population Management

Year 2, Semester 1

Plus either:

Science Concepts and Global Systems

SCB110

FACULTY OF SCIENCE AND TECHNOLOGY MAB101 Statistical Data Analysis 1 Year 4, Semester 1 **NQB502** Field Methods in Natural Resource Sciences MAB105 **Preparatory Mathematics NQB513** Geophysics Year 2, Semester 2 Year 4, Semester 2 SCB123 Physical Science Applications **NQB613** Plate Tectonics **SCB131 Experimental Chemistry NQB615** Geochemistry Year 3, Semester 1 Course structure - Major in Microbiology LQB383 Molecular and Cellular Regulation Year 1, Semester 1 **SCB384** Forensic Sciences - From Crime Scene to **SCB111** Chemistry 1 Court **SCB112** Cellular Basis of Life Year 3, Semester 2 JSB979 Forensic Scientific Evidence Year 1, Semester 2 (Life Sciences Pre-Major Strand) **PQB312** Analytical Chemistry For Scientists and SCB120 Plant and Animal Physiology **Technologists SCB121** Chemistry 2 Year 4, Semester 1 Year 2, Semester 1 **PQB513** Instrumental Analysis **SCB110** Science Concepts and Global Systems Forensic Physical Evidence **PQB584** Plus either: MAB101 Statistical Data Analysis 1 Year 4, Semester 2 Or LQB680 Forensic DNA Profiling MAB105 **Preparatory Mathematics PQB684** Forensic Analysis Course structure - Major in Geoscience Year 2, Semester 2 **SCB122** Cell and Molecular Biology Year 1, Semester 1 SCB123 Physical Science Applications SCB111 Chemistry 1 Year 3, Semester 1 SCB112 Cellular Basis of Life LQB381 Biochemistry: Structure and Function Year 1, Semester 2 (Geoscience Pre-Major Strand) LQB386 Microbial Structure and Function NQB201 Planet Earth Year 3, Semester 2 SCB123 Physical Science Applications **LQB483** Molecular Biology Techniques Year 2, Semester 1 LQB486 Clinical Microbiology 1 SCB110 Science Concepts and Global Systems Year 4, Semester 1 Plus either: **LQB586** Clinical Microbiology 2 MAB101 Statistical Data Analysis 1 Applied Microbiology 1: Water, Air and Soil **LQB587** MAB105 **Preparatory Mathematics** Year 4. Semester 2 **LQB686** Microbial Technology and Immunology Year 2, Semester 2 **LQB687** Applied Microbiology 2: Food and Quality NQB202 History of Life on Earth Assurance SCB222 Exploration of the Universe Course structure - Major in Physics Year 3, Semester 1 NQB311 Year 1, Semester 1 Mineralogy **NQB314** Sedimentary Geology **MAB121** Calculus and Differential Equations

MAB120

SCB111

Algebra and Calculus

Chemistry 1

Year 3, Semester 2

Petrology of Igneous and Metamorphic Rocks

Structural Geology and Field Methods

NQB411

NQB412

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.

V1	0	/Db.,	D. Mais.	C+
Year 1	Semester 2	(Physics	Pre-Maior	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.

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' RollMDB454 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.	С
EDB040	Indigenous Knowledge: Research Ethics and	С
LDB040	Protocols	С
EDB041	Indigenous Australia: Country, Kin and Culture	С
SWB100	Introduction to Human Services and Social Work	С
SWB102	The Human Condition	C S
SWB103	Contemporary Social and Community Issues	U
SWB104	Interpersonal Communication	U
SWB204	Child and Family Services: Introduction	U
SWB206	Disability Services: Introduction	ъ:
SWB207	Services to Young People: Introduction	Di
SWB212	Community Work	Н
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	С
SWB221	Social Work Processes and Methods	С
SWB222	Advanced Communication for Human Services and Social Work	С
SWB302	Social Policy Processes	С
SWB304	Child and Family Services: Advanced	С
SWB305	Community and Youth Corrections	С
SWB306	•	С
SWB307	Disability Services: Advanced Services to Young People: Advanced	С
		Di
SWB308	Child Protection Intervention Skills	וט

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.

	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

	17(00211 01 00121(01		120111102001
	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	0 GRMN102 0	German 2/Introductory German Language 2
	2009 as well as those from the following list:	GRMN201 0	German 3/Continuing German Language 1
FREN101 0	French 1/Introductory French A	•	German 4/Continuing German Language 2
FREN102	French 2/Introductory French B	0 GRMN301	German 5/Advanced German Language 1
· ·	French 3/Intermediate French A *	0	
0	OR	GRMN302 0	German 6/Advanced German Language 2
EDENIO44		GRMN311	German 7/Advanced German Language 3
2	French Language A *	0	
FREN202 0	French 4/Intermediate French B	GRMN312 0	German 8/Advanced German Language 4
	OR	Japanese	
	French Language B		The following units are taught at UQ. Six
4	French 5/French Lancuage C		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:
FREN311 5	French 6/French Language D	JAPN1011	Japanese 1/Introductory Japanese 1
	French 7/Advanced French Language **	JAPN2011	Japanese 2/Introductory Japanese 2
6	Tronon 1,7 tavanosa 1 Tonon Zangaago	JAPN2101	Japanese 3/Intermediate Japanese 1
	OR	JAPN3001	Japanese 4/Intermediate Japanese 2
_	French for Business	JAPN3101	Japanese 5/Continuing Japanese 3
0	OB	JAPN3102	Japanese 6/Continuing Japanese 4
EDENI226	OR Le cinema en Francais	JAPN3200	Japanese 7/Multimedia Japanese
0	Le cinema en Francais		OR
	French 8/Advanced Oral French	JAPN3240	Modern Literary Texts
0	0.0		OR
EDENIO04	OR	JAPN3210	Polite Japanese Written & Spoken Styles
0	Litterature et modernite	JAPN3500	Japanese 8/Language and Society in Japan
	OR	Indonesian	
FREN331 0	Introduction to French > English Translation		The following units are taught at UQ. Six
U	OR		sequenced units are required for a Indonesian Discipline Major. These can include units
FREN335	Litterature Contemporaine		completed in the Indonesian Discipline Major up to 2009 as well as those from the following list:
	* FREN2010 is third semester French for	INDN1000	Indonesian 1/Introductory Indonesian A
	students who have done HHB061 and HHB0062 (semester 1 and 2 of beginner	INDN1001	Indonesian 2/Introductory Indonesian B
	French). FREN3112 is first semester French	INDN2000	Indonesian 3/Intermediate Indonesian A
	for students who have successfully complete year 12 french in the last three years.	INDN2001	Indonesian 4/Intermediate Indonesian B
	** Students who have already completed	INDN3000	Indonesian 5/Advanced Indonesian A
	HHB066 French 6 at QUT should not enrol in FREN3116	INDN3001	Indonesian 6/Advanced Indonesian B
	TREMOTIO	INDN3003	Indonesian 7/Indonesian Through the Media
German		INDN3005	Indonesian 8/Indonesian Translation B
	The following units are taught at UQ. Six sequenced units are required for a German Discipline Major. These can include units	Discipline Major - Social Science	
	completed in the German Discipline Major up to 2009 as well as those from the following list:	SOCIAL SO	CIENCE
GRMN101	German 1/Introductory German Language 1		Six (6) units are required for a Social Science Discipline Major which comprises Sociology

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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

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

Computer Games Studies
Building IT Systems
Industry Insights
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

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)

Course su	ucture (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 Med	dia		
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 Des	ign		
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 T	echnologies*		
	* 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		

Modelling and Animation Techniques

INB381

	FACULTY OF SCIENC	E AND	IECHNOLOGY
INB382	Real Time Rendering Techniques	Game Des	ign
OR INB383	Al for Games	KIB201	Concept Development for Game Design and Interactive Media
		KIB202	Enabling Immersion
Bachelor of Games & Interactive Entertainment Minors		INB280	Fundamentals of Game Design
Course str	ructure (Block C)	INB281	Advanced Game Design
Students s	elect a Minor from the following		OR
Animation		INB272	Interaction Design
KIB105	Animation and Mation Graphics	Logal legue	00
	Animation and Motion Graphics	Legal Issu	
KVB105	Drawing for Design	LWB136	Contracts A
KIB203	Introduction to 3D Computer Graphics	LWB145	Legal Foundations A
KVB106	Drawing for Animation		Two units selected from the following
KIB225	Character Development, Conceptual Design and Animation Layout	LWB137 LWB142	Contracts B
KIB108	Animation History and Practices		Law, Society and Justice
	·	LWB480	Media Law
	Animation#	LWB482	Internet Law
KIB325	Real-Time 3D Computer Graphics	LWB486	Intellectual Property Law
KIB320	Advanced Concepts in Computer Animation 1	Marketing	
KIB321	Advanced Concepts in Computer Animation 2	BSB126	Marketing
KIB316	Virtual Environments	AMB200	Consumer Behaviour
	#Entry into this minor is limited to students enrolled in the Animation Major	AMB201	Marketing and Audience Research
	enrolled in the Animation Major	AMB240	Marketing Planning and Management
Advanced	Software Technologies #		
INB365	Systems Programming		cs for Games#
INB372	Agile Software Development	MAB120	Algebra and Calculus
INB374	Enterprise Software Architecture	MAB121	Calculus and Differential Equations
INB382	Real Time Rendering Techniques	MAB122	Algebra and Analytic Geometry
OR		MAB312	Linear Algebra
INB383	Al for Games		# Students who have completed Maths C can substitute MAB120 with one of the following
	# Only available to students doing the Software Technologies major		units: MAB311, MAB481 or MAB422
Digital Med	tia		Network Technologies
KIB101	Visual Communication	INB102	Emerging Technology
	OR	INB251	Networks
KIB103	Introduction to Web Design and Development	INB350	Internet Protocols and Services
NID 100	Plus all of the following:	INB353	Wireless and Mobile Networks
KIB102	Visual Interactions	Sound Des	sign
INB385	Multimedia Systems		Select 4 units from the following:
INB386	Advanced Multimedia Systems	KMB107	Sound, Image, Text
	·	KMB119	Music and Sound Production 1
Entrepene	·	KMB129	Music and Sound Production 2
BSB115	Management	KMB252	Multi-Platform Sound Design
MGB223	Entrepreneurship and Innovation	KKB216	Graphical Development Environments for
MGB324	Managing Business Growth		Media Interaction
	Plus one from the following:	Physics for	r Games
BSB126	Marketing	MAB121	Calculus and Differential Equations
MGB200	Leading Organisations	PQB250	Mechanics and Electromagnetism
		1 40200	Moonanies 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

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
Voor 2 C	omeeter 2	AND	Two units selected from the following:
rear 2, S	emester 2 Block B or Block C or Block D Unit	DAB110	Architectural Design 1
		DEB201	Digital Communication
	Block B or Block C or Block D Unit	DTB101	Interior Design 1
	Block B or Block C or Block D Unit Block B or Block C or Block D Unit	DNB101	Industrial Design 1
		Software ⁻	Technologies*
	emester 1		* Requirements for this Major is a SA or b
INB379	Game Project Design		in Queensland Maths B (or equivalent)
	Block B or Block C or Block D Unit	INB270	Programming
	Block B or Block C or Block D Unit	MAB281	Mathematics for Computer Graphics
	Block B or Block C or Block D Unit	INB210	Databases
Year 3, S	emester 2	INB250	Systems Architecture
INB380	Games Project	INB370	Software Development
	Block B or Block C or Block D Unit	INB371	Data Structures and Algorithms
	Block B or Block C or Block D Unit	INB381	Modelling and Animation Techniques
	Note: Coop Ed students replace INB380 with INS011 and INS012	INB382 OR	Real Time Rendering Techniques
.		INB383	Al for Games
	of Games & Interactive Entertainment Majors tructure (Block B)		of Games & Interactive Entertainment Mi ructure (Block C)
Animation	1		(
KIB105	Animation and Motion Graphics	Students	select a Minor from the following
KIB108	Animation History and Practices	Animation	
KVB105	Drawing for Design	KIB105	Animation and Motion Graphics
KVB106	Drawing for Animation	KVB105	Drawing for Design
KIB220	Animation Production	KVB106	Drawing for Animation
KIB203	Introduction to 3D Computer Graphics	KIB108	Animation History and Practices
KIB225	Character Development, Conceptual Design and Animation Layout		·
KIB325	Real-Time 3D Computer Graphics		Animation#
	<u> </u>	KIB221	Animation: CG Toolkit
Digital Me		KIB320	Advanced Concepts in Computer Animati
KIB101	Visual Communication	KIB321	Advanced Concepts in Computer Animati
KIB102	Visual Interactions	KIB316	Virtual Environments
INB345	Mobile Devices		#Entry into this minor is limited to IT04 students enrolled in the Animation Major,
INB386	Advanced Multimedia Systems		have completed at least 96 credit points of study, and have gained an average grade
KIB309	Embodied Interactions		5.0 or above across the following units from
KIB230	Interface and Information Design		Animation Major: KIB105, KIB108, KVB10 KVB106.
INB385	Multimedia Systems		
KIB314	Tangible Media		Software Technologies #
Game De	sign	INB365	Systems Programming
INB280	Fundamentals of Game Design	INB372	Agile Software Development
INB272	Interaction Design	INB374	Enterprise Software Architecture
KIB201	Concept Development for Game Design and Interactive Media	INB382 OR	Real Time Rendering Techniques
KIB202	Enabling Immersion	INB383	Al for Games
INIDOO4			"01 "11 1 1 1 1 1 1 1 1 1 1

Only available to students doing the Software Technologies major

Advanced Game Design

Design for Interactive Media

INB281 KIB214

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
Digital Med	dia	INB102	Emerging Technology
KIB101	Visual Communication	INB251	Networks
KIB102	Visual Interactions	INB350	Internet Protocols and Services
INB385	Multimedia Systems	INB353	Wireless and Mobile Networks
INB386	Advanced Multimedia Systems	Sound De	sian
Entrepene	ourshin	KMB106	Music and Sound for Multimedia
BSB115	Management	KMB107	Sound, Image, Text
MGB223	Entrepreneurship and Innovation	KMB119	Music and Sound Production 1
MGB324	Managing Business Growth	KMB129	Music and Sound Production 2
WIODOZ I	Plus one from the following:		
BSB126	Marketing		Technologies
MGB200	Leading Organisations	INB270	Programming
WODZOO	Leading Organisations	INB210	Databases
Game Des	sign	INB250	Systems Architecture
KIB201	Concept Development for Game Design and Interactive Media	INB371	Data Structures and Algorithms
KIDOOO			This minor is not available to students who are undertaking the Software Technologies Major
KIB202	Enabling Immersion		undertaking the contware recrimologies major
INB280	Fundamentals of Game Design	Physics fo	or Games
INB281	Advanced Game Design	MAB121	Calculus and Differential Equations
INIDOZO	OR	PQB250	Mechanics and Electromagnetism
INB272	Interaction Design	PQB251	Waves and Optics
Legal Issu	es		Choose 1 from the following
LWB141	Legal Institutions and Method	PQB450	Energy, Fields and Radiation
LWB136	Contracts A	PQB460	Astrophysics 1
	Two units selected from the following	PCB593	Digital Image Processing
LWB137	Contracts B	Bachelor	of Games & Interactive Entertainment Course
LWB142	Law, Society and Justice	structure	
LWB480	Media Law	-	
LWB482	Internet Law	The cours	e consists of four blocks of studies
LWB486	Intellectual Property Law		Block A: Core Studies (6 units plus a 24 credit point Project completed in Semester 6)
Marketing BSB126	Marketing		Block B: Major (8 units) selected from Animation; Digital Media; Games Design; Software Technologies
	Three units selected from the following		Block C: Minor (4 units)
AMB251	Innovation and Brand Management		Block D: Electives (4 units)
AMB240	Marketing Planning and Management		The Cooperative Education Programs are
AMB201	Marketing and Audience Research		replacements for general IT electives
AMB359	Strategic Marketing	Year 1, Se	emester 1
		INB180	Computer Games Studies
Mathemati	ics for Games#	INB104	Building IT Systems
MAB120	Algebra and Calculus	INB104	Industry Insights
MAB121	Calculus and Differential Equations	INB 103	Special Topic 1
MAB122	Algebra and Analytic Geometry	HNDZUT	
MAB312	Linear Algebra	Year 1, Se	emester 2
	# Students who have completed Maths C can substitute MAB120 with one of the following	INB181	Introduction to Games Production
	units: MAB311, MAB481 or MAB422		Block B or Block C Unit
Mobile on	d Natural Tachnologica		Block B or Block C Unit
Mobile and	d Network Technologies		Block B or Block C Unit

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
Vaar 2 Ca	omeeter 1	INB280	Fundamentals of Game Design
Year 2, Se		INB272	Interaction Design
	Block B or Block C Unit Block B or Block C Unit	KIB201	Concept Development for Game Design and Interactive Media
	Block B or Block C Unit	KIB202	Enabling Immersion
	Block B or Block C Unit	KIB214	Design for Interactive Media
/0 O		AND	Two units selected from the following:
rear 2, 56	emester 2	DEB201	Digital Communication
	Block B or Block C or Block D Unit	DAB110	Architectural Design 1
	Block B or Block C or Block D Unit	DTB101	Interior Design 1
	Block B or Block C or Block D Unit Block B or Block C or Block D Unit	DNB101	Industrial Design 1
/par 3 Sc	emester 1	Software ⁻	Technologies*
near 5, 50 NB379	Game Project Design		* Requirements for this Major is a SA or bet in Queensland Maths B (or equivalent)
	Block B or Block C or Block D Unit	INB270	(' ' '
	Block B or Block C or Block D Unit	INB270 INB210	Programming
	Block B or Block C or Block D Unit		Databases
		INB250 INB371	Systems Architecture
∕ear 3, Se	emester 2		Data Structures and Algorithms
NB380	Games Project	INB381	Modelling and Animation Techniques
	Block B or Block C or Block D Unit	INB382	Real Time Rendering Techniques
	Block B or Block C or Block D Unit	INB370	Software Development
	Note: Coop Ed students replace INB380 with INS011 and INS012	MAB281 OR	Mathematics for Computer Graphics
Bachelor	of Games & Interactive Entertainment Majors	INB304	Special Topic 3
Course st	ructure	Bachelor	of Games & Interactive Entertainment Mino
Animation		Course st	ructure
KIB105	Animation and Motion Graphics	Students	select a Minor from the following
KIB108	Animation History and Practices		•
KIB225	Character Development, Conceptual Design	Animation	
	and Animation Layout	KIB105	Animation and Motion Graphics
KIB203	Introduction to 3D Computer Graphics	KVB105	Drawing for Design
KIB325	Real-Time 3D Computer Graphics	KVB106	Drawing for Animation
KIB316	Virtual Environments	KIB108	Animation History and Practices
(VB105	Drawing for Design	Advanced	Animation#
(VB106	Drawing for Animation	KIB212	Animation Studio 1: Preproduction
Digital Me	dia	KIB213	Animation Studio 2: CG Toolkit
KIB101	Visual Communication		#Entry into this minor is limited to IT04
(IB102	Visual Interactions		students enrolled in the Animation Major, w
NB385	Multimedia Systems		have completed at least 96 credit points of study, and have gained an average grade o
NB386	Advanced Multimedia Systems		5.0 or above across the following units from Animation Major: KIB105, KIB108, KVB105
NB345	Mobile Devices		KVB106.
(IB230	Interface and Information Design	A al. 15 15 1	Coffusion Tools and a state of
(IB309	Embodied Interactions		Software Technologies #
(IB314	Tangible Media	INB365	Systems Programming
		INB372	Agile Software Development
Game Des	sign	INB374	Enterprise Software Architecture
		INB382	Real Time Rendering Techniques

Advanced Game Design

INB281

INB382

Real Time Rendering Techniques

Students who have completed Maths C can

OR

Special Topic 3 # Only available to students doing the Software		
" Only available to students doing the contware		units: MAB311, MAB481 or MAB422
Technologies major	Mobile and	d Network Technologies
dia	INB102	Emerging Technology
Visual Communication	INB251	Networks
Visual Interactions	INB350	Internet Protocols and Services
	INB353	Wireless and Mobile Networks
•	Sound Do	oian
Advantage Melanicula Systems		Music and Sound Technology
urship		Music and Sound for Multimedia
Management		
Entrepreneurship and Innovation		Sound, Image, Text
Managing Business Growth	KMB108	Sound Recording and Acoustics
Plus one from the following:	Software 7	Technologies
Marketing	INB270	Programming
Leading Organisations	INB210	Databases
·	INB250	Systems Architecture
	INB371	Data Structures and Algorithms
Interactive Media		This minor is not available to students who are undertaking the Software Technologies Major
·		_
· ·	•	
Advanced Game Design		Mathematical Sciences 1B
		Mechanics and Electromagnetism
Interaction Design	PQB251	Waves and Optics
es		Choose 1 from the following
Legal Institutions and Method	PQB450	Energy, Fields and Radiation
Contracts A	PQB460	Astrophysics 1
Two units selected from the following	PCB593	Digital Image Processing
Contracts B	Bachelor	of Games & Interactive Entertainment Course
Law. Society and Justice	structure	
	_	
	The cours	e consists of four blocks of studies
Intellectual Property Law		Block A: Core Studies (6 units plus a 24 credipoint Project completed in Semester 6)
Maykating		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
Strategic Marketing	Year 1, Se	emester 1
cs for Games#	ITB750	Computer Game Studies
Mathematical Sciences 1A	ITB001	Problem Solving and Programming
Mathematical Sciences 1A		
	ITB002	IT Professional Studies
Mathematical Sciences 1B Mathematical Sciences 1C	ITB002 DEB101	IT Professional Studies Introducing Design
\ \text{\$\cdot\}	Visual Communication Visual Interactions Multimedia Systems Advanced Multimedia Systems urship Management Entrepreneurship and Innovation Managing Business Growth Plus one from the following: Marketing Leading Organisations ign Concept Development for Game Design and Interactive Media Enabling Immersion Fundamentals of Game Design Advanced Game Design Interaction Design es Legal Institutions and Method Contracts A Two units selected from the following Contracts B Law, Society and Justice Media Law Internet Law Internet Law Intellectual Property Law Marketing Three units selected from the following Innovation and Brand Management Marketing Planning and Management Marketing and Audience Research Strategic Marketing	Visual Communication Visual Interactions Multimedia Systems Advanced Multimedia Systems Advanced Multimedia Systems Management Entrepreneurship and Innovation Managing Business Growth Plus one from the following: Marketing Leading Organisations Interactive Media Enabling Immersion Fundamentals of Game Design Advanced Game Design Advanced Game Design Physics for MAB111 PQB250 Interaction Design PQB251 Bachelor astructure Media Law Internet Law Interlectual Property Law Marketing Three units selected from the following Innovation and Brand Management Marketing Planning and Management Marketing and Audience Research Strategic Marketing Year 1, Se Sound De KMB105 KMB105 KMB106 KMB107 KMB108 INB270 INB270 INB270 INB270 INB271 INB271 INB270 INB270 INB271 INB270 INB250 INB371 INB371 INB353 INB351 INB361 INB361 INB371 INB361 INB

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
Year 1, Se	emester 2		2 more units as per discussion with course
ITB751	Games Production		coordinator
	Block B or Block C Unit	Game Des	sign
	Block B or Block C Unit	ITB016	Fundamentals of Games Design
	Block B or Block C Unit	ITB017	Advanced Games Design
.,		KIB201	Interactive Writing
Year 2, Se		KIB202	Enabling Immersion
	Block B or Block C Unit	KIB310	Design Studio 3: Virtual Environments
	Block B or Block C Unit		Two units selected from the following
	Block B or Block C Unit	DEB201	Digital Communication
	Block B or Block C Unit	DEB102	Introducing Design History
Year 2, Se	emester 2	DAB110	Introductory Architectural Design 1
	Block B or Block C or Block D Unit	DTB101	Interior Design 1
	Block B or Block C or Block D Unit	DNB101	Industrial Design 1
	Block B or Block C or Block D Unit	0 "	
	Block B or Block C or Block D Unit	Software	Technologies*
Year 3, Se	emester 1		 * This Major assumes students have obtained a SA or better in Queensland Maths B (or equivalent)
ITB009	Core Project Management	ITB003	Object Oriented Programming
	Block B or Block C or Block D Unit	ITB004	Database Systems
	Block B or Block C or Block D Unit	ITB005	Systems Architecture
	Block B or Block C or Block D Unit	ITB702	Algorithms and Data Structures
Year 3, Se	emester 2	ITB746	Modelling and Animation Techniques
ITB020	Project	ITB747	Real Time Rendering Techniques
	Block B or Block C or Block D Unit	ITB749	Scientific Programming
	Block B or Block C or Block D Unit	MAB281	Mathematics for Computer Graphics
Bachelor Course st	of Games & Interactive Entertainment Majors	Bachelor Course st	of Games & Interactive Entertainment Minor ructure
Block B M	lajors (8 units)	Students	select a Minor from the following
Animation	and Computational Arts	Animation	
KIB105	Animation and Motion Graphics		This minor is not availabel to students who ar
KIB106	Character Development, Conceptual Design and Animation Layout	KIDAOE	undertaking the Animation and Computationa Arts Major
KIB107	Introduction to Programming for 3D	KIB105	Animation and Motion Graphics
KIB108	Animation Practices	KIB107	Introduction to Programming for 3D
KVB105	Foundations of Drawing for Animation 1	KVB105	Foundations of Drawing for Animation 1
KVB106	Foundations of Drawing for Animation 2	KVB106	Foundations of Drawing for Animation 2
KKB210	Computational Arts 1	OR	A 1 1 1 5 11
KKB211	Computational Arts 2	KIB108	Animation Practices
	·	Advanced	Animation#
Digital Me		KIB212	Animation Studio 1: Preproduction
KIB101	Foundations of Communication Design 1	KIB213	Animation Studio 2: CG Toolkit
KIB102	Foundations of Communication Design 2		#This Minor is only available to students who
KIB103	Media Technology 1		are undertaking the Animation and Computational Arts Major. As resources are
ITB254	Interaction Design		limited, entry will be determined on the basis
ITB257	Multimedia Systems		a student's academic performance in the unit KIB105, KIB107, KIB108 and KVB105.
ITB259	Advanced Multimedia Systems		, , , , , , , , , , , , , , , , , , , ,

	FACULTY OF SCIENC	E AND	TECHNOLOGY
Computati	onal Arts	MAB312	Linear Algebra
ITB003	Object Oriented Programming		# Students who have completed Maths C can
KKB210	Computational Arts 1		substitute MAB100 with one of the following units: MAB311, MAB481 or MAB422
KKB211	Computational Arts 2		
KIB106	Character Development, Conceptual Design		d Network Technologies*
	and Animation Layout	ITB006	Networks
Digital Me	dia	ITB720	Internet Protocols and Services
ITB254	Interaction Design	ITB730	Information Security Fundamentals
ITB257	Multimedia Systems	ITB723	Wireless and Mobile Networks
ITB259	Advanced Multimedia Systems		*This Minor is only available to students who are undertaking the Sotware Technologies
KIB101	Foundations of Communication Design 1		Major
	or	Sound Des	sian
KIB103	Media Technology 1	KMB105	Music and Sound Technology
- 1	1:	KMB106	Music and Sound for Multimedia
Entrepene	·	KMB107	Sound, Image, Text
BSB115	Management, People and Organisations	KMB108	Sound Recording and Acoustics
MGB223	Entrepreneurship and Innovation	TAMETOO	Count (Noodraing and Acoustics
MODO40	OR	Physics fo	r Games
MGB218	Managing Business Growth	PCB107	Physics and Quantitative Techniques
AMB240	Marketing Planning and Management	PCB460	Instrumentation and Computational Methods
AMB251	Innovation and Market Development	PCB593	Digital Image Processing
Game Des	sign	PQB251	Waves and Optics
KIB201 Interactive Writing		Software T	Fechnologies
KIB202	Enabling Immersion	ITB003	Object Oriented Programming
ITB017	Advanced Games Design	ITB004	Database Systems
ITB016	Fundamentals of Games Design	ITB005	Systems Architecture
Legal Issu	25	ITB749	Scientific Programming
LWB141	Legal Institutions and Method		This minor is not available to students who are
LWB136	Contracts A		undertaking the Software Technologies Major
	Two units selected from the following	IT Elective	List
LWB137	Contracts B	IT Elective	Unito
LWB142	Law, Society and Justice	INB123	Project Management Practice
LWB480	Media Law	INB123	Technology Management
LWB486	Intellectual Property Law	INB311	Enterprise Systems
Mankatina		INB311	Electronic Commerce Site Development
Marketing		INB374	Enterprise Software Architecture
BSB126	Marketing	INB386	Advanced Multimedia Systems
AMD054	Three units selected from the following	INB320	Business Process Modelling
AMB251	Innovation and Market Development	INB321	Business Process Management
AMB240	Marketing Planning and Management	INB321	Information Systems Consulting
AMB201	Marketing and Audience Research		Smart Services
AMB341	Strategic Marketing	INB323 INB330	
Mathemat	ics for Games#	INB330	Information Management Management Issues for Information
MAB100	Mathematical Sciences 1A	II CCONII	Professionals
MAB111	Mathematical Sciences 1B	INB334	Information Issues and Values
MAD112	Mathematical Sciences 1C	INIDOOF	Information Passurass

INB335

Information Resources

MAB112 Mathematical Sciences 1C

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

Potential Careers:

INB334

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

Information Issues and Values

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@gut.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

IZID404

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

FACULTY OF SCIENCE AND TECHNOLOGY **INB385** Multimedia Systems INB372 Agile Software Development **KIB314 INB374** Tangible Media **Enterprise Software Architecture INB382** Real Time Rendering Techniques Game Design OR **INB280** Fundamentals of Game Design **INB383** Al for Games **INB272** Interaction Design # Only available to students doing the Software **KIB201** Concept Development for Game Design and Technologies major Interactive Media **KIB202 Enabling Immersion** Digital Media **INB282 KIB101** Games Level Design Visual Communication **DEB103** Visualisation 1 **INB281** Advanced Game Design **KIB103** Introduction to Web Design and Development **KIB214** Design for Interactive Media Plus all of the following: Visual Interactions **KIB102** Software Technologies* **INB385** Multimedia Systems * Requirements for this Major is a SA or better **INB386** Advanced Multimedia Systems in Queensland Maths B (or equivalent) INB270 Programming Entrepeneurship MAB281 Mathematics for Computer Graphics **BSB115** Management **INB210** MGB223 Entrepreneurship and Innovation **INB250** Computer Architectures and Systems MGB324 Managing Business Growth **INB370** Software Development Plus one from the following: **INB371** Data Structures and Algorithms **BSB126** Marketing **INB381** Modelling and Animation Techniques MGB200 Leading Organisations **INB382** Real Time Rendering Techniques Game Design OR **KIB201** Concept Development for Game Design and **INB383** Al for Games Interactive Media **Bachelor of Games & Interactive Entertainment Minors Enabling Immersion KIB202** Course structure (Block C) **INB280** Fundamentals of Game Design **INB281** Advanced Game Design Students select a Minor from the following OR Animation **INB272** Interaction Design **KIB105 Animation and Motion Graphics** Legal Issues **KVB105** Drawing for Design LWB136 Contracts A **KIB203** Introduction to 3D Computer Graphics LWB145 Legal Foundations A **KVB106 Drawing for Animation** Two units selected from the following KIB225 Character Development, Conceptual Design and Animation Layout LWB137 Contracts B **KIB108** Animation History and Practices LWB142 Law, Society and Justice LWB480 Media Law Advanced Animation# LWB482 Internet Law **KIB325** Real-Time 3D Computer Graphics LWB486 Intellectual Property Law **KIB320** Advanced Concepts in Computer Animation 1

Advanced Concepts in Computer Animation 2

#Entry into this minor is limited to students

enrolled in the Animation Major

Virtual Environments

Systems Programming

Advanced Software Technologies #

KIB321

KIB316

INB365

Marketing

BSB126

AMB200

AMB201

AMB240

Marketing

Mathematics for Games#

Consumer Behaviour

Marketing and Audience Research

Marketing Planning and Management

FACULTY OF SCIENCE AND TECHNOLOGY			
MAB120	Algebra and Calculus	KIB325	Real-Time 3D Computer Graphics
MAB121	Calculus and Differential Equations	Digital Med	dia
MAB122	Algebra and Analytic Geometry	KIB101	Visual Communication
MAB312	Linear Algebra	KIB101	Visual Interactions
	# Students who have completed Maths C can	INB345	Mobile Devices
	substitute MAB120 with one of the following units: MAB311, MAB481 or MAB422	INB345	Advanced Multimedia Systems
	<u> </u>	KIB309	Embodied Interactions
	Network Technologies	KIB230	Interface and Information Design
INB102	Emerging Technology	INB385	Multimedia Systems
INB251	Networks	KIB314	Tangible Media
INB350	Internet Protocols and Services	NIDS 14	rangible Media
INB353	Wireless and Mobile Networks	Game Des	sign
Sound Des	sign	INB280	Fundamentals of Game Design
	Select 4 units from the following:	INB272	Interaction Design
KMB107	Sound, Image, Text	KIB201	Concept Development for Game Design and Interactive Media
KMB119	Music and Sound Production 1	KIB202	Enabling Immersion
KMB129	Music and Sound Production 2	INB281	Advanced Game Design
KMB252	Multi-Platform Sound Design	KIB214	Design for Interactive Media
KKB216	Graphical Development Environments for Media Interaction	AND	Two units selected from the following:
	mode into account	DAB110	Architectural Design 1
Physics for Games		DEB201	Digital Communication
MAB121	Calculus and Differential Equations	DTB101	Interior Design 1
PQB250	Mechanics and Electromagnetism	DNB101	Industrial Design 1
PQB251	Waves and Optics	0.6	
	Choose 1 from the following	Software I	Fechnologies*
PQB450	Energy, Fields and Radiation		* Requirements for this Major is a SA or better in Queensland Maths B (or equivalent)
PQB460	Astrophysics 1	INB270	Programming
PCB593	Digital Image Processing	MAB281	Mathematics for Computer Graphics
Software T	echnologies	INB210	Databases
INB270	Programming	INB250	Systems Architecture
INB210	Databases	INB370	Software Development
INB250	Foundations of Computer Science	INB371	Data Structures and Algorithms
INB371	Data Structures and Algorithms	INB381	Modelling and Animation Techniques
	This minor is not available to students who are	INB382	Real Time Rendering Techniques
	undertaking the Software Technologies Major	OR	
	of Games & Interactive Entertainment Majors	INB383	Al for Games
Course structure (Block B) Animation			of Games & Interactive Entertainment Minors ructure (Block C)
KIB105	Animation and Motion Graphics	24	
KIB103	Animation History and Practices	Students s	select a Minor from the following
KVB105	Drawing for Design	Animation	
KVD100	Drawing for Animation	KIB105	Animation and Motion Graphics

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

Advanced Animation#

KVB106

KIB220

KIB203

KIB225

Drawing for Animation

Animation Production

Introduction to 3D Computer Graphics

Character Development, Conceptual Design and Animation Layout

	FACULTY OF SCIENC	E AND	TECHNOLOGY
KIB221	Animation: CG Toolkit	LWB486	Intellectual Property Law
KIB320	Advanced Concepts in Computer Animation 1	Marketing	
KIB321	Advanced Concepts in Computer Animation 2	BSB126	Marketing
KIB316	Virtual Environments	505 120	Three units selected from the following
	#Entry into this minor is limited to IT04 students enrolled in the Animation Major, who	AMB251	Innovation and Brand Management
	have completed at least 96 credit points of	AMB240	Marketing Planning and Management
	study, and have gained an average grade of 5.0 or above across the following units from the	AMB201	Marketing and Audience Research
	Animation Major: KIB105, KIB108, KVB105, KVB106.	AMB359	Strategic Marketing
		Mathemat	ics for Games#
	Software Technologies #	MAB120	Algebra and Calculus
INB365	Systems Programming	MAB121	·
INB372	Agile Software Development		Calculus and Differential Equations
INB374	Enterprise Software Architecture	MAB122	Algebra and Analytic Geometry
INB382	Real Time Rendering Techniques	MAB312	Linear Algebra
OR			# Students who have completed Maths C can substitute MAB120 with one of the following
INB383	Al for Games		units: MAB311, MAB481 or MAB422
	# Only available to students doing the Software	Mohile and	d Network Technologies
	Technologies major	INB102	Emerging Technology
Digital Med	dia	INB251	Networks
KIB101	Visual Communication	INB350	Internet Protocols and Services
KIB102	Visual Interactions	INB353	Wireless and Mobile Networks
INB385	Multimedia Systems	INDOO	Wileless and Mobile Networks
INB386	Advanced Multimedia Systems	Sound De	sign
Entranana	urahin	KMB106	Music and Sound for Multimedia
Entrepene	·	KMB107	Sound, Image, Text
BSB115	Management	KMB119	Music and Sound Production 1
MGB223	Entrepreneurship and Innovation	KMB129	Music and Sound Production 2
MGB324	Managing Business Growth	Coffware T	Technologies
DOD 400	Plus one from the following:	INB270	-
BSB126	Marketing	INB270 INB210	Programming Databases
MGB200	Leading Organisations		
Game Des	sign	INB250	Systems Architecture
KIB201	Concept Development for Game Design and	INB371	Data Structures and Algorithms
1/17000	Interactive Media		This minor is not available to students who are undertaking the Software Technologies Major
KIB202	Enabling Immersion	Dhysics fo	* Compo
INB280	Fundamentals of Game Design	Physics fo	
INB281	Advanced Game Design	MAB121	Calculus and Differential Equations
	OR	PQB250	Mechanics and Electromagnetism
INB272	Interaction Design	PQB251	Waves and Optics
Legal Issu	es	DOD450	Choose 1 from the following
LWB141	Legal Institutions and Method	PQB450	Energy, Fields and Radiation
LWB136	Contracts A	PQB460	Astrophysics 1
	Two units selected from the following	PCB593	Digital Image Processing
LWB137	Contracts B	Postgradu	uate IT Units
LWB142	Law, Society and Justice		
LWB480	Media Law	Unit List:	
LWB482	Internet Law	INN210	Databases
	Interriot Law		

	FACULIT OF SCIEN
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	Al 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
- INB220Business 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

FACULTY OF SCIENCE AND TECHNOLOGY Email: enquiry.scitech@qut.edu.au EFB222 Quantitative Methods For Economics and Finance **Bachelor of Corporate Systems Management 2011 EFB223 Economics 2 EFB307** Finance 2 Course Structure 2011 EFB312 International Finance Year 1, Semester 1 Creative Industries Management **INB103** Industry Insights KTB104 Performance Innovation **INB120** Corporate Systems KTB207 Staging Australia **INB101** Impact of IT KTB210 Creative Industries Management **INB122** Organisational Databases KTB211 Creative Industries Events and Festivals Year 1, Semester 2 Construction Management - Administration **BSB115** Management **UDB101** Stewardship of Land **INB123 Project Management Practice UDB104 Urban Development Economics INB124** Information Systems Development **UDB110** Residential Construction and Engineering Block B Unit **UDB111 Engineering Construction Materials** Year 2, Semester 1 **Human Resource Management INB220 Business Analysis** MGB200 Leading Organisations **INB221 Technology Management** MGB201 Contemporary Employment Relations MGB223 Entrepreneurship and Innovation MGB207 Human Resource Issues and Strategy Block B Unit MGB314 Organisational Consulting and Change Year 2, Semester 2 MGB320 Recruitment and Selection BSB126 MGB331 Learning and Development in Organisations Marketing **INB313** Electronic Commerce Site Development MGB339 Performance and Reward Block B Unit MGB370 Personal and Professional Development Block B Unit Law Year 3, Semester 1 LWB136 Contracts A **INB312** LWB137 Contracts B **Enterprise Systems Applications INB322** Information Systems Consulting LWB145 Legal Foundations A Block B Unit LWB146 Legal Foundations B Block B Unit **LWB238** Fundamentals of Criminal Law LWB241 Trusts Year 3, Semester 2 LWB242 Constitutional Law **INB320 Business Process Modelling** LWB334 Corporate Law **INB325** Corporate Systems Management Project Block B Unit Management Block B Unit **BSB111 Business Law and Ethics** BSB113 **Economics** Block B: Complimentary Studies BSB119 **Global Business** Students select 96cp comprising of IT unit BSB124 Working in Business set(s) or from those offered by other Faculties at QUT. Alternatively, students may undertake eight elective units with the approval of the MGB200 Leading Organisations Course Coordinator. MGB210 Managing Operations MGB309 Strategic Management Banking and Finance MGB324 Managing Business Growth BSB113 **Economics**

Marketing

AMB200

AMB201

Consumer Behaviour

Marketing and Audience Research

BSB123

EFB201

EFB210

Data Analysis

Finance 1

Financial Markets

	FACULTY OF SCIENC	CE AND	TECHNOLOGY
AMB240	Marketing Planning and Management	INB122	Organisational Databases
AMB335	E-marketing Strategies	Year 1, Se	omastar 2
AMB359	Strategic Marketing	BSB115	
Organisati	ional Psychology	INB123	Management Project Management Practice
PYB007	Interpersonal Processes and Skills	INB123	Information Systems Development
	·	IND 124	·
PYB100	Foundation Psychology		Block B Unit
PYB202	Social and Organisational Psychology	Year 2, Se	emester 1
PYB302	Industrial and Organisational Psychology	INB220	Business Analysis
Public Hea	alth	INB221	Technology Management
PUB251	Contemporary Public Health	MGB223	Entrepreneurship and Innovation
PUB326	Epidemiology		Block B Unit
PUB332	Sustainable Environments For Health	V0 0	
PUB406	Health Promotion Practice	Year 2, Se	
		BSB126	Marketing
	riminology)	INB313	Electronic Commerce Site Development
JSB170	Introduction to Criminology and Policing		Block B Unit
JSB171	Justice and Society		Block B Unit
JSB272	Theories of Crime	Year 3, Se	emester 1
JSB273	Crime Research Methods	INB312	Enterprise Systems Applications
JSB372	Youth Justice	INB322	Information Systems Consulting
JSB373	Punishment and Penal Policy		Block B Unit
JSB374	Crime Prevention		Block B Unit
LWB145	Legal Foundations A		
Specialisa	tion - IT (Digital Environments)	Year 3, Se	
INB104	Building IT Systems	INB320	Business Process Modelling
INB210	Databases	INB325	Corporate Systems Management Project
INB270	Programming		Block B Unit
INB335	Information Resources		Block B Unit
INB340	Database Design	Block B: C	Complementary Studies
INB345	Mobile Devices		Students select 96cp comprising of IT unit
INB346	Enterprise 2.0		set(s) or from those offered by other Faculties
INB347	Web 2.0 Applications		at QUT. Alternatively, students may undertake eight elective units with the approval of the
_			Course Coordinator.
	ate Level Electives	Informatio	n Management/Information Technology
INB120	Corporate Systems	Managem	
INB220	Business Analysis	INB312	Enterprise Systems Applications
INB255	Security	INB335	Information Resources
INB272	Interaction Design	Adult and	Community Logning
	Or, an INB300 level unit as approved by the course coordinator	SPB100	Community Leaning Introduction to Adult Learning and Development
Bachelor	of Corporate Systems Management 2010	SPB106	Managing Learning Organisations
Course St	ructure 2010	Banking a	nd Finance
Voor 1 Ca	omostor 1	BSB113	Economics
Year 1, Se INB103		BSB122	Quantitative Analysis and Finance
	Industry Insights	EFB101	Data Analysis for Business
INB120	Corporate Systems	EFB102	Economics 2
INB101	Impact of IT		

FACULTY OF SCIENCE AND TECHNOLOGY EFB201 **Financial Markets** LWB141 Legal Institutions and Method EFB210 Finance 1 LWB142 Law, Society and Justice EFB307 Finance 2 LWB144 Laws and Global Perspectives EFB312 International Finance LWB482 Internet Law LWB484 Electronic Commerce and Technology **Business Systems Engineering** Contracts INB210 **Databases** Management INB270 Programming MGB210 Managing Operations **INB311 Enterprise Systems** MGB211 Organisational Behaviour Intermediate Level IT Elective MGB220 **Business Research Methods** Creative Industries Management MGB222 Managing Organisations KTB210 Creative Industries Management MGB309 Strategic Management KTB211 Creative Industries Events and Festivals MGB334 Managing in a Changing Environment KTB104 Performance Innovation Marketing KTB207 Staging Australia AMB200 Consumer Behaviour Construction Management - Administration AMB201 Marketing and Audience Research **UDB101** Stewardship of Land **AMB240** Marketing Planning and Management **UDB104 Urban Development Economics** AMB241 E-Marketing Strategies **UDB110** Residential Construction and Engineering AMB341 Strategic Marketing **UDB111 Engineering Construction Materials** Organisational Psychology Databases Interpersonal Processes and Skills **PYB007 INB210 Databases PYB012** Psychology INB270 Programming **PYB202** Social and Organisational Psychology INB340 **Database Design PYB302** Industrial and Organisational Psychology **INB342 Enterprise Data Mining** Public Health Intermediate Level IT Elective **PUB251** Contemporary Public Health **Electronic Business** PUB326 **Epidemiology** BSB212 **Electronic Business Applications PUB332** Sustainable Environments For Health **BSB213** Governance Issues in E-Business PUB406 Health Promotion Practice E-Business Intelligence **BSB314** Intermediate Level Electives INB210 **Databases** INB120 Corporate Systems **INB271** The Web **INB220 Business Analysis** INB311 **Enterprise Systems INB255** Security **INB342 Enterprise Data Mining INB272** Interaction Design

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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 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

	FACULIT OF SCIENC	E ANL) IECHNOLOGY
Year 1, Se	emester 2	EFB210	Finance 1
BSB115	Management	EFB307	Finance 2
INB123	Project Management Practice	EFB312	International Finance
INB124	Information Systems Development	Business	Systems Engineering
	Block B Unit	INB210	Databases
Year 2, Se	amostor 1	INB270	Programming
INB220	Business Analysis	INB311	Enterprise Systems
INB220	Technology Management		Intermediate Level IT Elective
MGB223	Entrepreneurship and Innovation		michinediate 2076/11 21000176
MGDZZJ	Block B Unit		ndustries Management
	Block B Offic	KTB061	Creative Industries Management
Year 2, Se	emester 2	KTB062	Creative Industries Events and Festivals
BSB126	Marketing	KTB104	Performance Innovation
INB313	Electronic Commerce Site Development	KTB207	Staging Australia
	Block B Unit	Constructi	ion Management - Administration
	Block B Unit	UDB101	Stewardship of Land
Year 3, Se	omeeter 1	UDB104	Urban Development Economics
INB312	Enterprise Systems Applications	UDB110	Residential Construction and Engineering
INB312 INB322	Information Systems Consulting	UDB111	Engineering Construction Materials
IINDJZZ	Block B Unit	000111	Engineering concludion materials
	Block B Unit	Databases	S
	DIOCK D OTHE	INB210	Databases
Year 3, Se	emester 2	INB270	Programming
INB320	Business Process Modelling	INB340	Database Design
INB325	Corporate Systems Management Project	INB342	Enterprise Data Mining
	Block B Unit		Intermediate Level IT Elective
	Block B Unit	Forensics	
Plack P: C	Complementary Studies	BSB212	Electronic Business Applications
DIOCK D. C	Complementary Studies Students color unit cot(s) from within the	BSB213	Governance Issues in E-Business
	Students select unit set(s) from within the School of IT or from those offered by other	BSB314	E-Business Intelligence
	Faculties at QUT. Alternatively, students may undertake eight elective units with the approval	INB210	Databases
	of the Course Coordinator.	INB270	The Web
Informatio	n Managament/Information Tachnology	INB311	Enterprise Systems
Managem	n Management/Information Technology ent	INB342	Enterprise Data Mining
INB312	Enterprise Systems Applications		Enterprise Bata Mining
INB335	Information Resources	Entrepren	eurship
		AMB240	Marketing Planning and Management
	Community Leaning	AMB251	Innovation and Brand Management
SPB100	Introduction to Adult Learning and Development	Human Re	esource Management
SPB102	Professional Communication in Adult Learning	MGB207	Human Resource Issues and Strategy
	Contexts	MGB211	Organisational Behaviour
Finance		MGB314	Organisational Consulting and Change
BSB113	Economics	lar t	
BSB123	Data Analysis		nal Studies
EFB101	Data Analysis for Business	HHB107	World Regions
EFB102	Economics 2	HHB223	Islam and Islamic Societies
EFB201	Financial Markets	HHB263	Politics Of Globalisation
L. D201	i mandai mando		

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Law	<u> </u>	Year 1, Se	emester 1
LWB136 Contracts A		ITB002	IT Professional Studies
LWB137	Contracts B	ITB360	Corporate Systems
LWB141	Legal Institutions and Method	ITB361	Socio-technical Systems
LWB142	Law, Society and Justice	ITB362	Organisational Databases
LWB144	Laws and Global Perspectives		·
LWB482	Internet Law	Year 1, Se	emester 2
LWB484	Electronic Commerce and Technology	BSB115	Management, People and Organisations
	Contracts	ITB363	Project Management Practice
Manageme	ent	ITB364	Information Systems Development
MGB210	Managing Operations		Block B Unit
MGB211	Organisational Behaviour	Year 2, Se	emester 1
MGB220	Business Research Methods	ITB365	Business Analysis
MGB222	Managing Organisations	ITB366	Information Systems Operations
MGB309	Strategic Management		
MGB334	Managing in a Changing Environment	MGB223	Entrepreneurship and Innovation
			Block B Unit
Marketing		Year 2, Se	emester 2
AMB200	Consumer Behaviour	BSB126	Marketing
AMB201	Marketing and Audience Research	ITB823	Web Sites For Electronic Commerce
AMB240	Marketing Planning and Management		Block B Unit
AMB241	E-Marketing Strategies		Block B Unit
AMB341	Strategic Marketing		
Organisati	and Davehology	Year 3, Se	
	onal Psychology	ITB233	Enterprise Systems Applications
PYB007	Interpersonal Processes and Skills	ITB264	Information Systems Consulting
PYB012	Psychology		Block B Unit
PYB205	Social Psychology		Block B Unit
PYB302	Industrial and Organisational Psychology	Year 3. Se	emester 2
Public Hea	alth	ITB298	Business Process Modelling
PUB251	Contemporary Public Health	ITB370	Project
PUB326	Epidemiology	116570	Block B Unit
PUB329	Foundations of Health Studies and Health		Block B Unit
	Behaviour		Block B Offit
PUB406	Health Promotion Strategies	Block B: C	Complementary Studies
Intermedia	ite Level Electives		Students select a 4, 6 or 8 unit set/s from within the Faculty of IT or from those offered by
INB120	Corporate Systems		other Faculties at QUT. Alternatively, students
INB220	Business Analysis		may undertake eight elective units with the approval of the Course Coordinator.
INB255	Security		Students who choose to complete the
INB272	Interaction Design		Cooperative Education Program replace a
	Or, an INB300 level unit as approved by the		Block B unit with ITS010
	course coordinator	Banking a	nd Finance (Faculty of Business)
Bachelor (of Corporate Systems Management 2008	BSB113	Economics
Dacileioi	or Corporate Systems Management 2000	BSB122	Quantitative Analysis and Finance
Course Ou	utline - 2008	EFB101	Data Analysis for Business
DI : :	11 % (/01) %	EFB102	Economics 2
Block A: Core Units (16 Units)		EFB201	Financial Markets
Block B: Complementary Studies (8 units)			i mandai warkota

FACULTY OF SCIENCE AND TECHNOLOGY EFB210 Finance 1 EFB307 Finance 2 EFB312 International Finance

Business N	eeds 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 S	ystems Engineering (Faculty of IT)
ITB003	Object Oriented Programming

Creative Industries Management (Creative Industries Faculty)

Modelling Analysis and Design

Database Systems

Enterprise Systems

ITB004

ITB008

ITB228

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 o	f 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)

MGBZZ3	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		
110/40	wodelling and Animation Techniques		

11B/46	Modelling and Animation Techniques
ITB749	Scientific Programming

		-	_	
MAB281	Mathematics	for	Computer	Graphics

Hu	ıman 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
	ITDOOO	Enterprise Customs Application

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 HHB107 HHB223	Issues In International And Global Studies World Regions Islam and Islamic Societies	JSB372 JSB373 JSB378	Youth Justice Crime and Punishment Drugs and Crime
HHB263	Politics Of Globalisation		of Corporate Systems Management Part Time
Information IT)	n Technology Project Management (Faculty of	2011	
ITB002	IT Professional Studies	Part-time	Course Structure 2011
ITB009	Core Project Management	Year 1, Se	emester 1
ITB264	Information Systems Consulting	INB120	Corporate Systems
ITB363	Project Management Practice	INB122	Organisational Databases
	For additional units see below	Year 1, Se	omeeter 2
ITB010	Core Project Implementation	INB103	Industry Insights
ITB230	Project	INB103	Impact of IT
ITB370	Project	INDIOI	impact of th
Law (Facu	ltv of Law)	Year 2, Se	emester 1
LWB141	Legal Institutions and Method	BSB115	Management
LWB142	Law, Society and Justice		Block B Unit
LWB144	Laws and Global Perspectives	Year 2, Se	emester 2
LWB136	Contracts A	INB123	Project Management Practice
LWB137	Contracts B	INB124	Information Systems Development
LWB482	Internet Law		
LWB484	Electronic Commerce and Technology	Year 3, Se	
	Contracts	INB220	Business Analysis
Management (Faculty of Business)		INB221	Technology Management
MGB210	Managing Operations	Year 3, Se	emester 2
MGB211	Organisational Behaviour	MGB223	Entrepreneurship and Innovation
MGB220	Management Research Methods		Block B Unit
MGB222	Managing Organisations	Year 4, Se	emester 1
MGB309	Strategic Management	BSB126	Marketing
MGB334	Managing in a Changing Environment	505120	Block B Unit
Marketing	(Fculty of Business)	Year 4, Se	amaster 2
AMB200	Consumer Behaviour	INB313	Electronic Commerce Site Development
AMB201	Marketing and Audience Research	II I DO TO	Block B Unit
AMB240	Marketing Planning and Management		
AMB241	E-Marketing Strategies	Year 5, Se	
AMB341	Strategic Marketing	INB312	Enterprise Systems Applications
Public Hea	alth (Faculty of Health)	INB322	Information Systems Consulting
PUB251	Contemporary Public Health	Year 5, Se	emester 2
PUB326	Epidemiology		Block B Unit
PUB329	Foundations of Health Studies and Health Behaviour		Block B Unit
PUB406	Health Promotion Strategies	Year 6, Se	emester 1
<u> </u>		INB325	Corporate Systems Management Project
Justice Studies (Faculty of Law)			Block B Unit
JSB272	Theories of Crime	Year 6, Se	emester 2
JSB273	Crime Research Methods		

INB320	Business Process Modelling	Management	
	Block B Unit	BSB111	Business Law and Ethics
Block B: C	Complementary Studies	BSB113	Economics
DIOCK D. C	Students select 96cp comprising of IT unit	BSB119	Global Business
	set(s) or from those offered by other Faculties	BSB124	Working in Business
	at QUT. Alternatively, students may undertake eight elective units with the approval of the	MGB200	Leading Organisations
	Course Coordinator.	MGB210	Managing Operations
Ranking a	nd Finance	MGB309	Strategic Management
BSB113	Economics	MGB324	Managing Business Growth
BSB123	Data Analysis	Marketing	
EFB201	Financial Markets	AMB200	Consumer Behaviour
EFB210	Finance 1	AMB201	Marketing and Audience Research
EFB222	Quantitative Methods For Economics and	AMB240	Marketing Planning and Management
LI DZZZ	Finance	AMB335	E-marketing Strategies
EFB223	Economics 2	AMB359	Strategic Marketing
EFB307	Finance 2	AMD333	Strategic Marketing
EFB312	International Finance	Organisati	ional Psychology
Creative Ir	ndustries Management	PYB007	Interpersonal Processes and Skills
KTB104	Performance Innovation	PYB012	Psychology
KTB104 KTB207	Staging Australia	PYB202	Social and Organisational Psychology
KTB207 KTB210	Creative Industries Management	PYB302	Industrial and Organisational Psychology
KTB210	Creative Industries Events and Festivals	Public Hea	alth
KIBZII	Croditive medicates Evente and receivant	PUB251	Contemporary Public Health
Constructi	on Management - Administration	PUB326	Epidemiology
UDB101	Stewardship of Land	PUB332	Sustainable Environments For Health
UDB104	Urban Development Economics	PUB406	Health Promotion Practice
UDB110	Residential Construction and Engineering	1 05 100	Troditi i Tomotom i Taotioo
UDB111	Engineering Construction Materials	Justice (C	riminology)
Human Re	esource Management	JSB170	Introduction to Criminology and Policing
MGB200	Leading Organisations	JSB171	Justice and Society
MGB201	Contemporary Employment Relations	JSB272	Theories of Crime
MGB207	Human Resource Issues and Strategy	JSB273	Crime Research Methods
MGB314	Organisational Consulting and Change	JSB372	Youth Justice
MGB320	Recruitment and Selection	JSB373	Punishment and Penal Policy
MGB331	Learning and Development in Organisations	JSB374	Crime Prevention
MGB339	Performance and Reward	LWB145	Legal Foundations A
MGB370	Personal and Professional Development	Specialisa	tion - IT (Digital Environments)
		INB104	Building IT Systems
Law		INB210	Databases
LWB136	Contracts A	INB270	Programming
LWB137	Contracts B	INB335	Information Resources
LWB145	Legal Foundations A	INB340	Database Design
LWB146	Legal Foundations B	INB345	Mobile Devices
LWB238	Fundamentals of Criminal Law	INB346	Enterprise 2.0
LWB241	Trusts	INB347	Web 2.0 Applications
LWB242	Constitutional Law		
LWB334	Corporate Law	Intermedia	ate Level Electives

INB120 Corporate Systems Year 6, Semester 2 **INB220 Business Analysis INB320 Business Process Modelling INB255** Security Block B Unit Interaction Design **INB272** Block B: Complementary Studies Or, an INB300 level unit as approved by the course coordinator 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 **Bachelor of Corporate Systems Management Part Time** Course Coordinator. Part-time Course Structure 2010 Information Management/Information Technology Year 1, Semester 1 Management INB120 Corporate Systems **INB312 Enterprise Systems Applications INB122** Organisational Databases **INB335** Information Resources Year 1, Semester 2 Adult and Community Leaning **INB103** Industry Insights **SPB100** Introduction to Adult Learning and Development **INB101** Impact of IT **SPB102** Professional Communication in Adult Learning Year 2, Semester 1 Contexts Management BSB115 Banking and Finance Block B Unit BSB113 **Economics** Year 2, Semester 2 **BSB122** Quantitative Analysis and Finance **INB123** EFB101 **Project Management Practice Data Analysis for Business** Information Systems Development **INB124 EFB102 Economics 2 Financial Markets** EFB201 Year 3, Semester 1 **EFB210** Finance 1 **INB220 Business Analysis EFB307** Finance 2 **INB221 Technology Management EFB312** International Finance Year 3, Semester 2 **Business Systems Engineering** MGB223 Entrepreneurship and Innovation INB210 **Databases** Block B Unit INB270 Programming Year 4, Semester 1 **INB311 Enterprise Systems** BSB126 Intermediate Level IT Elective Marketing Block B Unit Creative Industries Management Year 4, Semester 2 KTB061 Creative Industries Management **INB313** Electronic Commerce Site Development Creative Industries Events and Festivals KTB062 Block B Unit KTB104 Performance Innovation KTB207 Staging Australia Year 5, Semester 1 **INB312 Enterprise Systems Applications** Construction Management - Administration **INB322** Information Systems Consulting **UDB101** Stewardship of Land **UDB104 Urban Development Economics** Year 5, Semester 2 **UDB110** Residential Construction and Engineering Block B Unit **UDB111 Engineering Construction Materials** Block B Unit **Databases** Year 6, Semester 1 **INB210 Databases INB325** Corporate Systems Management Project INB270 Programming Block B Unit **INB340 Database Design**

INB342	Enterprise Data Mining and Data Analysis Intermediate Level IT Elective	PYB007 PYB012	Interpersonal Processes and Skills Psychology
Fleetronia Duningos		PYB205	Social Psychology
Electronic Business BSB212 Electronic Business Applications		PYB302	Industrial and Organisational Psychology
BSB212	Electronic Business Applications Governance Issues in E-Business	Public Hea	alth
BSB314	E-Business Intelligence	PUB251	Contemporary Public Health
INB210	Databases	PUB326	Epidemiology
INB210 INB271	The Web	PUB329	Foundations of Health Studies and Health
INB311	Enterprise Systems	1 00323	Behaviour
INB311	Enterprise Data Mining and Data Analysis	PUB406	Health Promotion Practice
INDOTZ	Enterprise Data Willing and Data Analysis	Intermedia	ate Level Electives
Entreprene	eurship	INB120	
AMB240	Marketing Planning and Management	INB 120 INB220	Corporate Systems Business Analysis
AMB251	Innovation and Brand Management	INB255	·
Human Re	esource Management	INB255 INB272	Security
MGB207	Human Resource Issues and Strategy	INDZIZ	Interaction Design
MGB211	Organisational Behaviour		Or, an INB300 level unit as approved by the course coordinator
MGB314	Organisational Consulting and Change	IT Elective	a Liet
		II LICOUV	
Internation		IT Elective	e Units
HHB107	World Regions	INB123	Project Management Practice
HHB223	Islam and Islamic Societies	INB221	Technology Management
HHB263	Politics Of Globalisation	INB311	Enterprise Systems
Law		INB313	Electronic Commerce Site Development
LWB136	Contracts A	INB374	Enterprise Software Architecture
LWB137	Contracts B	INB386	Advanced Multimedia Systems
LWB141	Legal Institutions and Method	INB320	Business Process Modelling
LWB142	Law, Society and Justice	INB321	Business Process Management
LWB144	Laws and Global Perspectives	INB322	Information Systems Consulting
LWB482	Internet Law	INB323	Smart Services
LWB484	Electronic Commerce and Technology	INB330	Information Management
	Contracts	INB331	Management Issues for Information Professionals
Managemo		INB334	Information Issues and Values
MGB210	Managing Operations	INB335	Information Resources
MGB211	Organisational Behaviour	INB340	Database Design
MGB220	Business Research Methods	INB341	Software Development With Oracle
MGB222	Managing Organisations	INB342	Enterprise Data Mining and Data Analysis
MGB309	Strategic Management	INB350	Internet Protocols and Services
MGB334	Managing in a Changing Environment	INB351	Unix Network Administration
Marketing		INB352	Network Planning
AMB200	Consumer Behaviour	INB353	Wireless and Mobile Networks
AMB201	Marketing and Audience Research	INB370	Software Development
AMB240	Marketing Planning and Management	INB371	Data Structures and Algorithms
AMB241	E-Marketing Strategies	INB372	Agile Software Development
AMB341	Strategic Marketing	INB374	Enterprise Software Architecture
•		INB204	Special Topic 1
Organisati	onal Psychology		

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

= 4		
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		

Creative Industries Management

Creative Industries Management
Creative Industries Events and Festivals
Performance Innovation
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	Specialisa	ation - IT (Digital Environments)
	·	INB104	Building IT Systems
Law		INB210	Databases
LWB136	Contracts A	INB270	Programming
LWB137	Contracts B	INB340	Database Design
LWB145	Legal Foundations A	INB345	Mobile Devices
LWB146	Legal Foundations B	INB346	Enterprise 2.0
LWB238	Fundamentals of Criminal Law	INB347	Web 2.0 Applications
LWB241	Trusts	INB335	Information Resources
LWB242	Constitutional Law		
LWB334	Corporate Law		ate Level Electives
Manageme	ent	INB120	Corporate Systems
BSB111	Business Law and Ethics	INB220	Business Analysis
BSB113	Economics	INB255	Security
BSB119	Global Business	INB272	Interaction Design
BSB124	Working in Business		Or, an INB300 level unit as approved by the course coordinator
MGB200	Leading Organisations		course coordinator
MGB210	Managing Operations	Postgradi	uate IT Units
MGB309	Strategic Management	Unit List:	
MGB324	Managing Business Growth	INN210	Databases
Morkoting		INN220	Business Analysis
Marketing	Consumer Behaviour	INN221	Technology Management
AMB200		INN250	Foundations of Computer Science
AMB201	Marketing Planning and Management	INN251	Networks
AMB240 AMB335	Marketing Planning and Management	INN255	Security
	E-marketing Strategies	INN270	Programming
AMB359	Strategic Marketing	INN271	The Web
Organisati	onal Psychology	INN272	Interaction Design
PYB007	Interpersonal Processes and Skills	INN280	Fundamentals of Game Design
PYB100	Foundation Psychology	INN281	Advanced Game Design
PYB202	Social and Organisational Psychology	INN282	Games Level Design
PYB302	Industrial and Organisational Psychology	INN311	Enterprise Systems
Public Hea	s)th	INN312	Enterprise Systems Applications
PUB251	Contemporary Public Health	INN313	Electronic Commerce Site Development
PUB326	Epidemiology	INN320	Business Process Modelling
PUB332	Sustainable Environments For Health	INN321	Business Process Management
PUB406	Health Promotion Practice	INN322	Information Systems Consulting
1 00400	Treatit i Tomotion i Tactice	INN323	Smart Services
Justice (Cr	iminology)	INN330	Information Management
JSB170	Introduction to Criminology and Policing	INN331	Management Issues for Information
JSB171	Justice and Society		Professionals
JSB272	Theories of Crime	INN332	Information Retrieval
JSB273	Crime Research Methods	INN333	Information Programs
JSB373	Punishment and Penal Policy	INN334	Information Issues and Values
JSB372	Youth Justice	INN335	Information Resources
JSB374	Crime Prevention	INN340	Database Design
LWB145	Legal Foundations A	INN341	Software Development With Oracle

ENCE AND TECHNOLOGY

	FACULTY OF SCIEN
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	Al 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

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

	FACULTY OF SCIENC	EAND	TECHNOLOGY
INB302	Capstone Project	INB386	Advanced Multimedia Systems
	IT Specialisation Option	8.	UNGROUPED:
	IT Specialisation Option	INB204	Special Topic 1
IT Conside		INB205	Special Topic 2
п эресіа	lisation Option Unit List	INB304	Special Topic 3
IT Specia	list Option Units	INB305	Special Topic 4
	You must complete four (4) units from the	INB306	Project 1
	following list. Please ensure you have completed a minimum of 36 credit points (3	INB307	Project 2
	units) of IT Breadth Option Units before	INB308	Project 3
	commencing these units. The units are grouped in areas to assist you in focusing your	INB355	Cryptology and Protocols
	studies.	INB365	Systems Programming
1.	BUSINESS PROCESS MANAGEMENT:	INB381	Modelling and Animation Techniques
INB320	Business Process Modelling	INB382	Real Time Rendering Techniques
INB321	Business Process Management	INB860	Computational Intelligence for Control and
INB322	Information Systems Consulting		Embedded Systems
INB123	Project Management Practice	IT Breadt	h Option Unit List
2.	DATA WAREHOUSING:		
INB340	Database Design	IT Breadt	h Option Units
INB341	Software Development With Oracle		You must complete four (4) units from the following list. You should not commence the
INB342	Enterprise Data Mining and Data Analysis		units until you have completed INB101, INB102, INB103 and INB104.
INB343	Advanced Data Mining and Data Warehousing	INIDAGO	
INB344	Search Engine Technology	INB120	Corporate Systems
3.	DIGITAL ENVIRONMENTS:	INB210	Databases
INB345	Mobile Devices	INB220	Business Analysis
INB346	Enterprise 2.0	INB250	Foundations of Computer Science
INB347	Web 2.0 Applications	INB251	Networks
INB335	Information Resources	INB255	Security
4.	ENTERPRISE SYSTEMS:	INB270	Programming
INB123	Project Management Practice	INB271	The Web
INB221	Technology Management	INB272	Interaction Design
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		
INIDOG	Multimadia Cyatama		

INB374 INB385

Multimedia Systems

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

Year 3, Semester 1

INB271

INB220 Business Analysis

The Web

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 Flective Unit

Year 4, Semester 4

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INB302 Capstone Project

OR

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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

FACULTY OF SCI
Data Structures and Algorithms
Agile Software Development
Enterprise Software Architecture
Special Topic 1
Special Topic 2
Professional Practice in IT
Special Topic 4
Special Topic 3
CCNA 1&2 Network Fundamentals and Routing
CCNP1: Building Scalable Internetworks
CCNA 3&4 Lan Switching
CCNP 2: Building Multi Layered Switched Networks
CCNP3: Building Multi Layered Switched Networks
CCNP 4: Optimising Converged Networks
Project 1
Project 2
Project 3
Systems Programming
Cryptology and Protocols
Computational Intelligence for Control and Embedded Systems
Enterprise 2.0
Mobile Devices
Web 2.0 Applications
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

FACULTY OF SCIENCE AND TECHNOLOGY **INB124** Information Systems Development **KIB309 Embodied Interactions BSB126 KIB230** Interface and Information Design Marketing **INB385** Games & Interactive Entertainment Major Unit Multimedia Systems Games & Interactive Entertainment Major Unit **KIB314** Tangible Media Year 3, Semester 1 Game Design **INB220 Business Analysis INB280** Fundamentals of Game Design **INB221 Technology Management INB272** Interaction Design Games & Interactive Entertainment Major Unit **KIB201** Concept Development for Game Design and Interactive Media Games & Interactive Entertainment Major Unit **KIB202 Enabling Immersion** Year 3, Semester 2 **INB282** Games Level Design MGB223 Entrepreneurship and Innovation **DEB103** Visualisation 1 INB301 The Business of IT **INB281** Advanced Game Design Games & Interactive Entertainment Major Unit **KIB214** Design for Interactive Media Games & Interactive Entertainment Major Unit Software Technologies* Year 4, Semester 1 * Requirements for this Major is a SA or better in Queensland Maths B (or equivalent) Game Project Design **INB379** INB270 Programming **INB322** Information Systems Consulting **MAB281** Mathematics for Computer Graphics **INB312 Enterprise Systems Applications INB210 Databases INB325** Corporate Systems Management Project INB250 Computer Architectures and Systems Year 4, Semester 2 **INB370** Software Development **INB380 Games Project INB371** Data Structures and Algorithms INB320 **Business Process Modelling INB381** Modelling and Animation Techniques Games & Interactive Entertain Major Unit INB382 Real Time Rendering Techniques **INB313** Electronic Commerce Site Development OR INB383 Al for Games IT09 Course Structure 2010 Year 1, Semester 1 **INB120** Corporate Systems

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

INB103	Industry Insights
INB180	Computer Games Studies
INB182	Introducing Design
Year 1, Ser	mester 2
BSB115	Management
INB104	Building IT Systems
INB123	Project Management Practice
INB181	Introduction to Games Production

IINDIUI	impact of 11
INB122	Organisational Databases
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 2, Semester 2

Year 2, Semester 1

Impact of IT

INID404

FACULTY OF SCIENCE AND TECHNOLOGY INB124 Information Systems Development INB124 Information Systems Development BSB126 Marketing **INB313** Electronic Commerce Site Development Games & Interactive Entertainment Major Unit Year 3, Semester 1 Year 3, Semester 1 INB220 **Business Analysis INB220 Business Analysis INB221 Technology Management INB221 Technology Management** Games & Interactive Entertainment Major Unit Year 3, Semester 2 Year 3, Semester 2 MGB223 Entrepreneurship and Innovation MGB223 Entrepreneurship and Innovation INB301 The Business of IT INB301 The Business of IT Games & Interactive Entertainment Major Unit Year 4, Semester 1 Year 4, Semester 1 **INB379** Game Project Design INB379 Game Project Design **INB322 INB322** Information Systems Consulting Information Systems Consulting **INB312 Enterprise Systems Applications INB312 Enterprise Systems Applications INB325** Corporate Systems Management Project **INB325** Corporate Systems Management Project Or Or IT Elective Unit IT Elective Unit Year 4, Semester 2 Year 4, Semester 2 **INB380** INB380 Games Project **Games Project INB320** INB320 **Business Process Modelling Business Process Modelling** Games & Interactive Entertain Major Unit Games & Interactive Entertain Major Unit **INB313** Electronic Commerce Site Development IT09 Course Structure 2009 Year 1, Semester 1 INB120 Corporate Systems **INB103 Industry Insights Computer Games Studies INB180 INB204** Special Topic 1 Year 1, Semester 2 BSB115 Management **INB104 Building IT Systems INB123 Project Management Practice** Introduction to Games Production **INB181** 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, INDAOS & INDOS one offered in

NOTE: IND102 & IND210 are offered in **ALTERNATE** semesters

Semester Two

IND103

	, 0
IND251	Networks
IND270	Programming
QCD220	Professional Communication 2
	NOTE: IND103 & IND251 are offered in ALTERNATE semesters

Industry Insights

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

	FACULTY	OF SCIENCE	AND	TECHNOLOGY
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** Five (5) Major Elective Units to be chosen from

IT21 - Electronic Commerce Major

Electronic Commerce Major

Governance Issues in E-Business **BSB213**

the IT Elective List

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 **Enterprise Systems INB311 INB340**

Seven (7) Major Elective Units to be chosen

from the IT Elective List

Database Design

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

Unix Network Administration **INB351**

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	Agila Caffuara Davalanment
IINDS/Z	Agile Software Development
INB371	Data Structures and Algorithms
INB350	Internet Protocols and Services
INB351	Unix Network Administration
INB353	Wireless and Mobile Networks
INB370	Software Development
INB255	Security
	Four (4) Major Elective Units to be chosen from the IT Elective List

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:

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.gut.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 U n i v e r s i t y W i d e U n i t S e t s h t t p : // w w w . c o u r s e s . q u t . e d u . a u / c g i bin/WebObjects/Courses.woa/wa/selectFacultyFromMain?f aculty=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 SystemsINB340 Database DesignINB220 Business Analysis

IS Elective Units

INB312 Enterprise Systems Applications

INB342 Enterprise Data Mining and Data Analysis

	FACULTY OF SCIENC	E AND	TECHNOLOGY
INB313	Electronic Commerce Site Development	INB255	Security
INB322	Information Systems Consulting	INB272	Interaction Design
INB320	Business Process Modelling		OR
INB124	Information Systems Development		an INB300 level unit as approved by the
INB221	Technology Management		course coordinator
Network S	ystems Major	IT Elective	e List
Compulso	ry Units	IT Elective	Units
INB350	Internet Protocols and Services	INB123	Project Management Practice
INB351	Unix Network Administration	INB221	Technology Management
INB352	Network Planning	INB311	Enterprise Systems
INB255	Security	INB313	Electronic Commerce Site Development
	·	INB374	Enterprise Software Architecture
Electives		INB386	Advanced Multimedia Systems
INB312	Enterprise Systems Applications	INB320	Business Process Modelling
INB365	Systems Programming	INB321	Business Process Management
INB353	Wireless and Mobile Networks	INB322	Information Systems Consulting
INB355	Cryptology and Protocols	INB323	Smart Services
Software A	Architecture Major	INB330	Information Management
Compulsory Units		INB331	Management Issues for Information Professionals
INB340	Database Design	INB334	Information Issues and Values
INB371	Data Structures and Algorithms	INB335	Information Resources
INB372	Agile Software Development	INB340	Database Design
	,	INB341	Software Development With Oracle
Electives		INB342	Enterprise Data Mining and Data Analysis
	Choose 3 Electives	INB350	Internet Protocols and Services
INB341	Software Development With Oracle	INB351	Unix Network Administration
INB311	Enterprise Systems	INB352	Network Planning
INB312	Enterprise Systems Applications	INB353	Wireless and Mobile Networks
INB272	Interaction Design	INB370	Software Development
INB313	Electronic Commerce Site Development	INB371	Data Structures and Algorithms
INB322	Information Systems Consulting	INB372	Agile Software Development
INB320	Business Process Modelling	INB374	Enterprise Software Architecture
INB365	Systems Programming	INB204	Special Topic 1
INB370	Software Development	INB205	Special Topic 2
INB373	Web Application Development	INB300	Professional Practice in IT
INB374	Enterprise Software Architecture	INB305	Special Topic 4
INB381	Modelling and Animation Techniques	INB304	Special Topic 3
INB382	Real Time Rendering Techniques	INS350	CCNA 1&2 Network Fundamentals and

Intermediate Level Electives

Mathematics for Computer Graphics

MAB281 is only to be used as a prereq for INB381

MAB281

Intermediate Level Electives	INS354	CCNP3: Building Multi Layered Switched Networks
INB120 Corporate Systems	INS355	CCNP 4: Optimising Converged Networks
INB220 Business Analysis	INB306	Project 1

INS352

INS351

INS353

Routing

CCNP1: Building Scalable Internetworks

CCNP 2: Building Multi Layered Switched Networks

CCNA 3&4 Lan Switching

FACULTY OF SCIENCE AND TECHNOLOGY INB307 Project 2 **INB313** Electronic Commerce Site Development **INB308 INB342** Project 3 **Enterprise Data Mining INB365** Systems Programming **BSB212 Electronic Business Applications INB355** Cryptology and Protocols **BSB213** Governance Issues in E-Business **INB860** Computational Intelligence for Control and **BSB314** E-Business Intelligence Embedded Systems Games Technology Major (pre 2008) **INB346** Enterprise 2.0 **INB345** Mobile Devices Compulsory Units **INB347** Web 2.0 Applications INB370 Software Development **INB334** Information Issues and Values **INB381** Modelling and Animation Techniques **Business Systems Engineering Major (pre 2008)** INB371 Data Structures and Algorithms INB382 Real Time Rendering Techniques Compulsory Units **INB383** Al for Games **INB220 Business Analysis** MAB281 **Mathematics for Computer Graphics INB311 Enterprise Systems Information Systems Major INB320 Business Process Modelling INB335** Information Resources Compulsory Units **INB311 Enterprise Systems** IS Elective Units INB340 **Database Design** Select two (2) units from the following list **INB220 Business Analysis INB123 Project Management Practice INB306** Project 1 IS Elective Units **INB312 Enterprise Systems Applications** INB312 **Enterprise Systems Applications INB323 Smart Services INB342 Enterprise Data Mining INB340 Database Design INB313** Electronic Commerce Site Development **INB341** Software Development With Oracle **INB322** Information Systems Consulting **INB321 Business Process Management** INB320 **Business Process Modelling INB322** Information Systems Consulting **INB124** Information Systems Development Databases Major (pre 2008) **INB221 Technology Management** Information Technology Management Major (pre 2008) Core units **INB340 Database Design** Compulsory Units **INB341** Software Development With Oracle **INB221 Technology Management INB342 Enterprise Data Mining INB335** Information Resources **INB322** Information Systems Consulting Elective units Choose 3 Elective units from the following list: IS Elective Units **INB306** Project 1 Select three (3) units from the following list: **INB311 Enterprise Systems INB123 Project Management Practice**

INB124

INB220

INB341

INB306

INB311

INB340

Compulsory Units

Information Systems Development

Software Development With Oracle

Business Analysis

Enterprise Systems

Database Design

Intelligent Systems Major (pre 2008)

Project 1

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INB312

INB313

INB320

INB330

INB335

INB343

INB312

Compulsory Units

Enterprise Systems Applications

Enterprise Systems Applications

Business Process Modelling

Information Management

Information Resources

Electronic Business Major (pre 2008)

Electronic Commerce Site Development

Advanced Data Mining and Data Warehousing

	FACULTY OF SCIENC	EAND) TECHNOLOGY
INB335	Information Resources		IT Elective
INB342	Enterprise Data Mining and Data Analysis	Software	Architecture Major
INB371	Data Structures and Algorithms	Software Architecture Major	
INB860	Computational Intelligence for Control and	Compulso	ory Units
	Embedded Systems IT Elective (INB383 and INB343	INB340	Database Design
	recommended)	INB371	Data Structures and Algorithms
	IT Elective	INB372	Agile Software Development
	6 Units required	Electives	
Interactiv	e Media Major (pre 2008)		Choose 3 Electives
0 1		INB341	Software Development With Oracle
Compulso	•	INB311	Enterprise Systems
1110070	6 Compulsory units required.	INB312	Enterprise Systems Applications
INB272	Interaction Design	INB272	Interaction Design
INB385 INB386	Multimedia Systems	INB313	Electronic Commerce Site Development
KIB101	Advanced Multimedia Systems Visual Communication	INB322	Information Systems Consulting
KIB101	Visual Interactions	INB320	Business Process Modelling
KID IUZ	visual interactions	INB365	Systems Programming
Elective U	Jnits	INB370	Software Development
	Select one (1) unit from the following list:	INB373	Web Application Development
KIB103	Introduction to Web Design and Development	INB374	Enterprise Software Architecture
KIB105	Animation and Motion Graphics	INB381	Modelling and Animation Techniques
KIB108	Animation History and Practices	INB382	Real Time Rendering Techniques
KIB units		MAB281	Mathematics for Computer Graphics
	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	Web Serv	MAB281 is only to be used as a prereq for INB381 rices and Applications Major (pre 2008)
	KG	Compulso	ory Units
Network	Systems Major (pre 2008)		4 Compulsory units required.
Compulso	ory Unite	INB272	Interaction Design
Compulse	6 Compulsory units required.	INB313	Electronic Commerce Site Development
INB350	Internet Protocols and Services	INB373	Web Application Development
INB351	Computer Network Administration	INB374	Enterprise Software Architecture
INB352	Network Planning and Deployment	Choose 1	of the following:
INB353	Wireless and Mobile Networks	INB255	Security
INB365	Systems Programming	INB350	Internet Protocols and Services
	IT Elective	INB370	Software Development
Security	Major (pre 2008)	INB371	Data Structures and Algorithms
Security 1	Major (pre 2000)	INB372	Agile Software Development
Compulso	ory Units	=,	<u> </u>
	6 Compulsory units required.	Elective L	• /
INB350	Internet Protocols and Services		IT Elective
INB351	Computer Network Administration	Complem	entary Studies (Block C) (pre 2008)
INB355 Cryptology and Protocols		C4d t	
INB255	Security		choose the composition of the third block of the om the following:
	IT Elective		A six unit set (which may be chosen from the

A six unit set (which may be chosen from the

IT Majors) and two electives, or An approved fours unit set and four electives,

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

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 2INN403 Honours Dissertation 3INN404 Honours Dissertation 4

Software Architecture Major

Compu	Isory l	Jnits
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INB340 Database DesignINB371 Data Structures and AlgorithmsINB372 Agile Software Development

Electives

INB373

MAB281

	Choose 3 Electives
INB341	Software Development With Oracle
INB311	Enterprise Systems

INB312 Enterprise Systems Applications

INB272 Interaction Design

INB313 Electronic Commerce Site Development

Web Application Development

INB322 Information Systems Consulting

INB320 Business Process Modelling

INB365 Systems Programming

INB370 Software Development

INB374 Enterprise Software Architecture

INB381 Modelling and Animation Techniques

INB382 Real Time Rendering Techniques

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

Compulsor	y 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 handson 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

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

grouped in areas to assist you in locusing y

Studies

1. BUSINESS PROCESS MANAGEMENT:

INB320 Business Process Modelling
 INB321 Business Process Management
 INB322 Information Systems Consulting
 INB123 Project Management Practice

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 Technology3. DIGITAL ENVIRONMENTS:

INB345 Mobile Devices INB346 Enterprise 2.0

INB347 Web 2.0 Applications

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
INB335	Information Resources		counted towards completion of IT23.
4.	ENTERPRISE SYSTEMS:	NOTE:	A maximum of 48 credit points of Advanced
INB123	Project Management Practice		Standing for professional certifications is permitted towards completion of IT23
INB221	Technology Management		(including INS35X CISCO Units).
INB311	Enterprise Systems	CISCO Un	its
INB312	Enterprise Systems Applications		
5.	NETWORK SYSTEMS:	CISCO Ur	nits
INB350	Internet Protocols and Services		Students can choose from the following CISCO units as part of the Complementary Study Units
INB351	Unix Network Administration		(CISCO units located under Information
INB352	Network Planning		Technology University Wide Unit Options on e- Student.)
INB353	Wireless and Mobile Networks	INS350	CCNA 1&2 Network Fundamentals and
6.	SOFTWARE ENGINEERING:		Routing
INB370	Software Development	INS351	CCNA 3&4 Lan Switching
INB371	Data Structures and Algorithms	INS352	CCNP1: Building Scalable Internetworks
INB372	Agile Software Development	INS354	CCNP3: Building Multi Layered Switched Networks
INB374	Enterprise Software Architecture	INS356	Voice Over IP 1
7.	WEB TECHNOLOGIES:	INS357	CISCO VOIP
INB313	Electronic Commerce Site Development		
INB373	Web Application Development	Year 1, Semester 1	
INB374	Enterprise Software Architecture		
INB385	Multimedia Systems	INB101	Impact of IT
INB386	Advanced Multimedia Systems	INB102	Emerging Technology
8.	UNGROUPED:		
INB204	Special Topic 1	Year 1, Se	emester 2
INB205	Special Topic 2	INB103	Industry Insights
INB304	Special Topic 3	INB104	Building IT Systems
INB305	Special Topic 4	Year 2, Se	emester 1
INB306	Project 1	1001 2, 00	Breadth Option
INB307	Project 2		Breadth Option
INB308	Project 3		Diodati Option
INB355	Cryptology and Protocols	Year 2, Se	emester 2
INB365	Systems Programming		Breadth Option
INB381	Modelling and Animation Techniques		Breadth Option
INB382	Real Time Rendering Techniques	Year 3, Se	emester 1
INB860	Computational Intelligence for Control and		
	Embedded Systems	INB201	Scalable Systems Development

IT - Complementary Study Unit List

1.

Complementary Study Units: A maximum of 96 credit points can be chosen from:

- points can be chosen from.
- 2. Students can also choose from the range of CISCO units including INS350, INS351, INS352, INS354, INS356 and INS357.

The list of Breadth and Specialisation units.

- Undergraduate units from other IT related degrees (e.g. INB124, INB180, INB181, INB182, INB280 or INB383).
- Undergraduate units available with other QUT faculties.
- 5. Enrolment in INB830 or INB870 will NOT be

Specialisation Option Year 3, Semester 2

Specialisation Option

of breadth units.]

Complemenatry Studies Unit (Elective)

have completed a minimum of 36 credit points

Year 4, Semester 1

Specialisation Option

Complemenatry Studies Unit (Elective)

Year 4, Semester 2

Complementary Studies Unit (Elective)
Complementary Studies Unit (Elective)

Year 5, Semester 1

Specialisation Option

Complemenatry Studies Unit (Elective)

Year 5, Semester 2

INB300 Professional Practice in IT

Complementary 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.]

Complementary 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.gut.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 quarantee

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 ResearchINN701 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

rioriours Dissertation -

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

	FACULTY OF SCIENC	CE AND	TECHNOLOGY
INB250	Foundations of Computer Science	INB373	Web Application Development
INB251	Networks	INB374	Enterprise Software Architecture
INB255	Security	INB385	Multimedia Systems
INB270	Programming	INB386	Advanced Multimedia Systems
INB271	The Web	8.	UNGROUPED:
INB272	Interaction Design	INB204	Special Topic 1
IT Special	lisation Option Unit List	INB205	Special Topic 2
тт орестат	isation option out List	INB304	Special Topic 3
IT Special	ist Option Units	INB305	Special Topic 4
	You must complete four (4) units from the	INB306	Project 1
	following list. Please ensure you have completed a minimum of 36 credit points (3	INB307	Project 2
	units) of IT Breadth Option Units before	INB308	Project 3
	commencing these units. The units are grouped in areas to assist you in focusing your	INB355	Cryptology and Protocols
	studies.	INB365	Systems Programming
1.	BUSINESS PROCESS MANAGEMENT:	INB381	Modelling and Animation Techniques
INB320	Business Process Modelling	INB382	Real Time Rendering Techniques
INB321	Business Process Management	INB860	Computational Intelligence for Control and
INB322	Information Systems Consulting		Embedded Systems
INB123	Project Management Practice	IT - Comp	lementary Study Unit List
2.	DATA WAREHOUSING:		
INB340	Database Design	Complementary Study Units: A maximum of 84 credit points can be chosen from:	
INB341	Software Development With Oracle		
INB342	Enterprise Data Mining and Data Analysis	1.	The list of Breadth and Specialisation units.
INB343 INB344	Advanced Data Mining and Data Warehousing Search Engine Technology	2.	Students can also choose from the range of CISCO units including INS350, INS351, INS352, INS354, INS356 and INS357.
	2		

DIGITAL ENVIRONMENTS:

Mobile Devices

Enterprise 2.0

Web 2.0 Applications

Information Resources

ENTERPRISE SYSTEMS:

Technology Management

NETWORK SYSTEMS:

Enterprise Systems

Network Planning

Project Management Practice

Enterprise Systems Applications

Internet Protocols and Services

Unix Network Administration

Wireless and Mobile Networks

SOFTWARE ENGINEERING:

Data Structures and Algorithms

Enterprise Software Architecture

Electronic Commerce Site Development

Agile Software Development

WEB TECHNOLOGIES:

Software Development

3.

INB345

INB346

INB347

INB335

INB123

INB221

INB311

INB312

INB350

INB351

INB352

INB353

INB370

INB371

INB372

INB374

INB313

7.

6.

5.

4.

- 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	Al 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 quidelines, 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 ResearchINN401 Honours Dissertation 1INN701 Advanced Research TopicsElective

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 2INN701 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 ResearchINN401 Honours Dissertation 1INN701 Advanced Research Topics

Elective

Year 3, Semester 3

INN402 Honours Dissertation 2INN403 Honours Dissertation 3INN404 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 ResearchINN401 Honours Dissertation 1INN402 Honours Dissertation 2INN701 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 ResearchINN401 Honours Dissertation 1INN701 Advanced Research TopicsElective

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 ResearchINN401 Honours Dissertation 1INN402 Honours Dissertation 2INN701 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 ResearchINN401 Honours Dissertation 1INN402 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

Approved F	ionours 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

11414010	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

Case Studies in Business Process

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

Advanced Level 2 Units

INN700	Introduction To Research
INN610	Case Studies in Business Process Management

Units for codes)

Project - 12 and 24 credit points (See Project

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

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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

The Web

INN271

INN335

INN370

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.

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

Information Resources

INN372	Agile Software Development
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN255	Security
INN355	Cryptology and Protocols

IT89 - Graduate Certificate in IT (Wireless Games Technology)

Four (4) units to be selected from the following

Software Development

INN272 Interaction Design

INN350 Internet Protocols and Services

INN385

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	

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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) u	nits to be selected from the following	
INN271	The Web	
INN272	Interaction Design	

Multimedia Systems **INN386** Advanced Multimedia Systems

IT99 - Graduate Certificate in IT (Component Software and Web Services)

Four (4) units to be completed			

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

Advanced Readings 3

Advanced Research 1

Advanced Research 2

Advanced Research 3

INN602

INN605

INN606

INN607

Enterprise Systems		INS455	CCNP4: Optimising Converged Networks
DO	*All of these units:	Games Pr	aduation
INN311	Enterprise Systems	DO	*All of these units:
INN312	Enterprise Systems Applications		
INN374	Enterprise Software Architecture	INN180	Computer Games Studies
INN610	Case Studies in Business Process	INN181	Introduction to Games Production
	Management	INN600	Advanced Readings 1
PLUS	*Units to 36 credit points from:	INN601	Advanced Readings 2
INN700	Introduction To Research	PLUS	*Units to 36 credit points from:
INN340	Database Design	INN220	Business Analysis
INN342	Enterprise Data Mining and Data Analysis	INN321	Business Process Management
INN341	Software Development With Oracle	INN330	Information Management
INN321	Business Process Management	INN311	Enterprise Systems
INN220	Business Analysis	INN700	Introduction To Research
INN600	Advanced Readings 1	Games De	esign
INN601	Advanced Readings 2	DO	*All of these units:
INN602	Advanced Readings 3	INN180	Computer Games Studies
INN605	Advanced Research 1	INN280	Fundamentals of Game Design
INN606	Advanced Research 2	INN281	Advanced Game Design
INN607	Advanced Research 3	INN272	Interaction Design
Network M	anagement	PLUS	*Units to 36 credit points from:
DO	*All of these units:	INN181	Introduction to Games Production
INN350	Internet Protocols and Services	INN385	Multimedia Systems
INN351	Unix Network Administration	INN386	Advanced Multimedia Systems
INN352	Network Planning	INN600	Advanced Readings 1
INN650	Advanced Network Management	INN601	Advanced Readings 2
PLUS	*Units to 36 credit points from:	INN700	Introduction To Research
INN700	Introduction To Research	KIB201	Concept Development for Game Design and
INN353	Wireless and Mobile Networks		Interactive Media
INN255	Security	KIB202	Enabling Immersion
INN651	Security Technologies	INN282	Games Level Design
INN355	Cryptology and Protocols	Security	
INN652	Advanced Cryptology	DO	*All of these units:
INN550	Computer Forensics	INN255	Security
INN600	Advanced Readings 1	INN651	Security Technologies
INN601	Advanced Readings 2	PLUS	*Units to 60 credit points from:
INN602	Advanced Readings 3	INN700	Introduction To Research
INN605	Advanced Research 1	INN355	Cryptology and Protocols
INN606	Advanced Research 2	INN652	Advanced Cryptology
INN607	Advanced Research 3	INN550	Computer Forensics
INS450	CCNA 1 and 2 Network Fundamentals and	MGN524	Special Topic in Management 1
	Routing	AYN410	Business Law and Ethics
INS451	CCNA 3 and 4 Lan Switching	MGN433	Managing High-Performance Organisations
INS452	CCNP1: Building Scalable Internetworks	MGN423	Contemporary Strategic Analysis
INS453	CCNP 2: Implementing Secure Network Coverage	GSN440	Risk Management 1
INS454	CCNP3: Building Multi Layered Switched Networks	JSN106 MAN778	Analytical Methods of Intelligence Applications of Discrete Mathematics
			••

		FACULTY OF SCIENCE	<u> AND</u>	TECHNOLOGY	
LWN139 Privacy Law			Executive Information Practice		
	LWN125	Electronic Commerce Law	DO	*All of these units:	
	INN690	Minor Project 1	INN630	Evidence Based Practice	
	INN691	Minor Project 2	INN631	Executive Coaching	
	INN692	Minor Project 3	INN690	Minor Project 1	
	INN693	Project	INN334	Information Issues and Values	
	INN694-1	Project 1	PLUS	*Six of these units:	
	INN694-2	Project	GSN401	Managing in the Global Business Environment	
	INN695	Major Project	GSN403	Understanding Data	
	INN696-1	Major Project 1	GSN404	Financial Statements Analysis	
	INN696-2	Major Project 2	GSN405	Strategic Management	
	INN600	Advanced Readings 1	GSN406	Human Resource Management Issues	
	INN601	Advanced Readings 2	GSN407	Business Communication	
	INN602	Advanced Readings 3	GSN408	Fundamentals of Marketing Management	
	INN605	Advanced Research 1	GSN409	Organisational Behaviour 1	
	INN606	Advanced Research 2	GSN410	Entrepreneurship	
	INN607	Advanced Research 3	GSN412	Business Law 1	
	Library and	Information Science	GSN413	Financial Management 1	
	DO DO	Units to 84 credit points:	GSN415	Understanding Leadership	
	INN332	Information Retrieval	GSN491	Economics in Business 1	
	INN532	Information Services	Digital Envi	ironmonto	
	INN533	Information Organisation	Digital Envi	*All of these units:	
	INN333	Information Programs	INN345	Mobile Devices	
	INN530	Web Content Reliability	INN345	Enterprise 2.0	
	INN532	Information Literacy Education	INN347	Web 2.0 Applications	
	INN632-1	Professional Practice	INN540	User Experience	
	INN632-2	Professional Practice	INN690	Minor Project 1	
	INN632-3		KCP408	Exploring New Media Worlds	
	INN632-4	Professional Practice	PLUS	*IT postgraduate units to 12 credit points, not in	
	INN632-5	Professional Practice		the "Basic Unit List".	
	INN632-6	Professional Practice	Basic Unit	List	
	INN330	Information Management			
	INN331	Management Issues for Information	INN101	Impact of IT	
		Professionals	INN120	Corporate Systems	
	Information	Management	INN122	Organisational Databases	
	DO	*All of these units:	INN124	Information Systems Development	
	INN330	Information Management	INN180	Computer Games Studies	
	SPN637	Managing Knowledge in Learning	INN210	Databases	
		Organisations	INN220	Business Analysis	
	INN122	Organisational Databases	INN221	Technology Management	
	INN255	Security	INN251	Networks	
	INN335	Information Resources	INN255	Security	
	INN220	Business Analysis	INN270	Programming	
	PLUS	*One of these units:	INN271	The Web	
	INN700	Introduction To Research	INN272	Interaction Design	
	INN334	Information Issues and Values			
	INTRICAC	The second control of			

User Experience

INN540

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 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

	FACULTI OF SCIENCE	- AND	ILCHNOLOGI
INN281	Advanced Game Design	INN694-1	Project 1
INN313	Electronic Commerce Site Development	INN694-2	Project
INN312	Enterprise Systems Applications	INN695	Major Project
INN321	Business Process Management	INN696-1	Major Project 1
INN322	Information Systems Consulting	INN696-2	Major Project 2
INN342	Enterprise Data Mining and Data Analysis	Intermedia	te Level Units
INN385	Multimedia Systems	memedia	
INN500	PRINCE2 (R) Project Management		With the approval of the Course Coordinator, students seeking skills in a new IT
INN371	Data Structures and Algorithms		specialisation can select up to two (2) units from the following list of units.
INN365	Systems Programming	INN271	The Web
INN370	Software Development	INS450	CCNA 1 and 2 Network Fundamentals and
INS452	CCNP1: Building Scalable Internetworks		Routing
INN352	Network Planning	INS451	CCNA 3 and 4 Lan Switching
INN373	Web Application Development	INN341	Software Development With Oracle
INS454	CCNP3: Building Multi Layered Switched	INN311	Enterprise Systems
	Networks	INN340	Database Design
INN353	Wireless and Mobile Networks	INN330	Information Management
INN374	Enterprise Software Architecture	INN335	Information Resources
INN381	Modelling and Animation Techniques	INN372	Agile Software Development
INS455	CCNP4: Optimising Converged Networks	INN350	Internet Protocols and Services
INN181	Introduction to Games Production	INN351	Unix Network Administration
INS456	Voice Over IP 1	INN255	Security
INS453	CCNP 2: Building Multi Layered Switched Networks	INN355	Cryptology and Protocols
INS457	Voice Over IP 2	INN370	Software Development
	Project - 12 and 24 credit points (See Project Units for codes)	IT89 - Graduate Certificate in IT (Wireless Games Technology)	

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Advanced	<i>7</i> I I	nite

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

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 Protoco		
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 po	oints 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) INN160 INN210 Introduction to Games Production Invalor definition Information Informatio	-			
Admissions: Yes CRICOS code: 0377E COurse duration (full-time): 1.5 years Course duration (full-time): 2.9 years Course duration (part-time): 3 years Course duration (part-time): 4 years Course coordinator or property: 5 years Course coordinator or Property: 5 years Course coordinator: 0 Property: 5 years Course	Master	of Information Technology (IT43)		•
Name	Year offer	red: 2011		
Course duration (full-time): 1.5 years INN220 Business Analysis Course duration (part-time): 3 years INN221 Technology Management Domestic Fees (Indicative): 2011: Full fee tuition \$7.375 INN250 Foundations of Computer Science (indicative) per semester InN251 Networks Domestic Entry: February and July International Entry: February and July Internation Design Standard credit points per part-time semester: 48 INN270 Internation Design Standard credit points per part-time semester: 48 INN280 Fundamentals of Game Design Course coordinator: Dr Yue Xu INN311 Enterprise Systems Applications IT43 - Master of Information Technology (Null Major Option) INN312 Electronic Commerce Site Development INN500 PRINCE2 (R) Project Management INN322 Information Systems Consulting Electrices Select one from: Any IT postgraduate unit starting InN5xx, INN5xx, INN5x				
Course duration (part-time): 3 years INN221 Technology Management Domestic fees (indicative): 2011: Full fee tuition \$7.375 INN250 Foundations of Computer Science (indicative): 2011: \$11,125 (indicative) per semester INN251 Notworks INN250 Domestic Entry: February and July International Entry: February and July INN271 The Web INN271 The Web International Entry: February and July INN271 The Web International Entry: February and July INN271 The Web International Entry: February and July INN271 The Web Internation Entry: February and July INN271 The Web Internation Entry: February and July Entry: End July Entry: Entr			INN220	Business Analysis
(indicative) per semester International Fees (indicative); 2011; \$11,125 (indicative) per semester Domestic Entry: February and July Domestic Entry: February and July International Entry: February and July Total credit points: 144 Standard credit points per full-time semester: 24 INN260 Fundamentals of Game Design Course coordinator: Dr Yue Xu Campus: Garden Point Discipline coordinator: Dr Yue Xu Campus: Garden Point International Entry: February and July Total credit points per part-time semester: 24 INN280 Fundamentals of Game Design Fundamentals of Game Design Fundamentals of Game Design Course coordinator: Dr Yue Xu InN312 Enterprise Systems Discipline coordinator: Dr Yue Xu InN312 Enterprise Systems Applications (INN313 Electronic Commerce Site Development INN313 Electronic Commerce Site Development INN314 Electronic Commerce Site Development INN320 Information Forcess Modelling University Information Management Information Management Information Management Information Management Information Management Information Professionals Information Retrieval Information Resources Innovation Programs Information Retrieval Informat	Course du	uration (part-time): 3 years	INN221	Technology Management
International Fees (Indicative): 2011: \$11,125 (Indicative) per semester per semester: Domestic Entry: February and July international Entry: February and July internation Design international Enterprise Systems (and passing Enterprise Systems Applications Enterprise Systems Applications Electronic Commerce Site Development Innation Design international Electronic Commerce Site Development Innation Design Information Professionals Informa			INN250	Foundations of Computer Science
Dere semester Domestic Entry: February and July International Entry: International Entry International Entry: February and July International Entry: International Entry International Entry: International Entry International Entry: International Entry International Entry: International Entry International Entry International Entry: International Entry Inte			INN251	Networks
International Entry: February and July INN271 The Web Total credit points: 144 Standard credit points per full-time semester: 48 INN272 Interaction Design Standard credit points per part-time semester: 24 INN280 Fundamentals of Game Design Course coordinator: Dr Yue XU INN311 Enterprise Systems Campus: Gardens Point INN312 Enterprise Systems Applications IT43 - Master of Information Technology (Null Major Option) INN320 Business Process Modelling INN500 PRINCE2 (R) Project Management INN320 Information Systems Consulting INN500 PRINCE2 (R) Project Management INN321 Information Systems Consulting INN501 PRINCE2 (R) Project Management INN321 Information Systems Consulting INN502 "Select one from: Any IT postgraduate unit starting INN5xx, INN6xx or INN7xx INN331 Information Professionals Flus "Select one from: Any IT postgraduate IT units not in the Basic Unit List. INN332 Information Programs Basic Unit List INN340 Database Design INN120 Corporate Systems INN341 Seffect one Formation Resources <tr< th=""><th></th><th></th><th>INN255</th><th>Security</th></tr<>			INN255	Security
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			INN500	PRINCE2 (R) Project Management

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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 7point 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

http://www.bus.qut.edu.au/courses/postgraduat e/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
- 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

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
	single area of specialisation must satisfy the unit	INN220	Business Analysis
•	nts for graduation with no major.	INN221	Technology Management
 Students may be allowed to take up to four units of electives. These units may be selected from postgraduate 		INN250	Foundations of Computer Science
	de of the Faculty of Science and Technology.	INN251	Networks
Further In	formation	INN255	Security
	information about this course, please contact:	INN270	Programming
i or idition	information about this course, please contact.	INN271	The Web
Ross Hay		INN272	Interaction Design
	1 7 3138 2782 juiry.scitech@qut.edu.au	INN280	Fundamentals of Game Design
	an y rooneon @quirouanuu	INN311	Enterprise Systems
IT43 - MIT	(Games Design)	INN312	Enterprise Systems Applications
Core		INN313	Electronic Commerce Site Development
INN500	PRINCE2 (R) Project Management	INN320	Business Process Modelling
HAINOUU	TAMOLZ (IV) TOJECTIVIANASEMENT	INN321	Business Process Management
All of the f	following units:	INN322	Information Systems Consulting
INN180	Computer Games Studies	INN330	Information Management
INN272 INN280	Interaction Design Fundamentals of Game Design	INN331	Management Issues for Information Professionals
INN281	Advanced Game Design	INN332	Information Retrieval
	/ tavanessa same Beergin	INN333	Information Programs
	n, select 3 of the following units:	INN335	Information Resources
INN181	Introduction to Games Production	INN340	Database Design
INN385	Multimedia Systems	INN341	Software Development With Oracle
INN386	Advanced Multimedia Systems	INN342	Enterprise Data Mining and Data Analysis
INN600	Advanced Readings 1	INN343	Advanced Data Mining and Data Warehousing
INN601	Advanced Readings 2	INN344	Search Engine Technology
INN700	Introduction To Research	INN345	Mobile Devices
KIB201	Concept Development for Game Design and Interactive Media	INN346	Enterprise 2.0
INN381	Modelling and Animation Techniques	INN347	Web 2.0 Applications
KIB202	Enabling Immersion	INN350	Internet Protocols and Services
INN382	Real Time Rendering Techniques	INN351	Unix Network Administration
INN383	Al for Games	INN352	Network Planning
INN701	Advanced Research Topics	INN353	Wireless and Mobile Networks
MAN281	Mathematics for Computer Graphics	INN355	Cryptology and Protocols
INN282	Games Level Design	INN365	Systems Programming
EL 0	<u> </u>	INN370	Software Development
Elective U		INN371	Data Structures and Algorithms
	Select any four Postgraduate Units	INN372	Agile Software Development
Postgradu	uate IT Units	INN373 INN374	Web Application Development Enterprise Software Architecture
Unit List:		INN374 INN381	Modelling and Animation Techniques
INN101	Impact of IT	INN382	Real Time Rendering Techniques
INN120	Corporate Systems	INN385	Multimedia Systems
INN120	Organisational Databases	INN386	Advanced Multimedia Systems
INN124	Information Systems Development	INN500	PRINCE2 (R) Project Management
INN124 INN180	Computer Games Studies	INN530	Web Content Reliability
INN181	Introduction to Games Production	INN530	Information Services
INN210	Databases	INN531	Information Literacy Education
II NI NZ I U	Databases	HAIAOOZ	morniation Enteracy Education

	TACULII OI SCIL
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 7point 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 7point 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

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
approved 9	96 credit points	INN271	The Web
Further Information		INN272	Interaction Design
For further information about this course, please contact:		INN280	Fundamentals of Game Design
For further information about this course, please contact.		INN311	Enterprise Systems
Ross Hayward or Helen Partridge		INN312	Enterprise Systems Applications
	1 7 3138 2782 uiry.scitech@qut.edu.au	INN313	Electronic Commerce Site Development
Liliali. Gilq	uiry.scitech@qut.edu.au	INN320	Business Process Modelling
IT43 - MIT	(Information Management)	INN321	Business Process Management
0.00		INN322	Information Systems Consulting
Core	DDINGE2 (D) Desirat Management	INN330	Information Management
INN500	PRINCE2 (R) Project Management ollowing units:	INN331	Management Issues for Information Professionals
INN122	Organisational Databases	INN332	Information Retrieval
INN220	Business Analysis	INN333	Information Programs
INN255	Security	INN335	Information Resources
INN330	Information Management	INN340	Database Design
INN335	Information Resources	INN341	Software Development With Oracle
IIIIII	illomation resources	INN342	Enterprise Data Mining and Data Analysis
In addition	, select 2 of the following units:	INN343	Advanced Data Mining and Data Warehousing
INN334	Information Issues and Values	INN344	Search Engine Technology
INN540	User Experience	INN345	Mobile Devices
INN700	Introduction To Research	INN346	Enterprise 2.0
INN600	Advanced Readings 1	INN347	Web 2.0 Applications
INN601	Advanced Readings 2	INN350	Internet Protocols and Services
INN602	Advanced Readings 3	INN351	Unix Network Administration
INN605	Advanced Research 1	INN352	Network Planning
INN606	Advanced Research 2	INN353	Wireless and Mobile Networks
INN607	Advanced Research 3	INN355	Cryptology and Protocols
INN701	Advanced Research Topics	INN365	Systems Programming
E1 - 45 11	as Man	INN370	Software Development
Elective U		INN371	Data Structures and Algorithms
	Select any four Postgraduate Units	INN372	Agile Software Development
Postgradu	rate IT Units	INN373	Web Application Development
Unit List:		INN374	Enterprise Software Architecture
INN101	Impact of IT	INN381	Modelling and Animation Techniques
INN120	•	INN382	Real Time Rendering Techniques
INN120	Corporate Systems Organisational Databases	INN385	Multimedia Systems
		INN386	Advanced Multimedia Systems
INN124 INN180	Information Systems Development	INN500	PRINCE2 (R) Project Management
	Computer Games Studies Introduction to Games Production	INN530	Web Content Reliability
INN181 INN210		INN531	Information Services
INN210 INN220	Databases Rusingas Anglysis	INN532	Information Literacy Education
	Business Analysis	INN533	Information Organisation
INN221 INN250	Technology Management	INN540	User Experience
	Foundations of Computer Science	INN550	Computer Forensics
INN251	Networks Socurity	INN570	Internationalisation of Software
INN255	Security	INN600	Advanced Readings 1
INN270	Programming	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.

-	FACULTY OF SCIENC	CE AND	TECHNOLOGY
		INN122	Organisational Databases
Online delivery		INN124	Information Systems Development
The Library and Information Science major is offered in		INN180	Computer Games Studies
	I delivery allowing students to complete their her face-to-face or online.	INN181	Introduction to Games Production
010.0.00		INN210	Databases
Early exit	-	INN220	Business Analysis
	nrolled in this course may be eligible to exit their that a Graduate Certificate (IT85), after successful	INN221	Technology Management
	n of an approved 48 credit points, or with a	INN250	Foundations of Computer Science
Graduate D	Diploma (IT37), after successful completion of an	INN251	Networks
approved 9	96 credit points.	INN255	Security
Further Inf	formation	INN270	Programming
For further	information about this course, please contact:	INN271	The Web
		INN272	Interaction Design
	vard or Helen Partridge 1 7 3138 2782	INN280	Fundamentals of Game Design
	uiry.scitech@qut.edu.au	INN311	Enterprise Systems
		INN312	Enterprise Systems Applications
1143 - MII	(Library and Information Science)	INN313	Electronic Commerce Site Development
Core		INN320	Business Process Modelling
INN500	PRINCE2 (R) Project Management	INN321	Business Process Management
	OR	INN322	Information Systems Consulting
INN690	Minor Project 1	INN330	Information Management
Select all c	of the following units:	INN331	Management Issues for Information Professionals
INN330	Information Management	INN332	Information Retrieval
INN331	Management Issues for Information	INN333	Information Programs
	Professionals	INN335	Information Resources
INN332	Information Retrieval	INN340	Database Design
INN333	Information Programs	INN341	Software Development With Oracle
INN530	Web Content Reliability	INN342	Enterprise Data Mining and Data Analysis
INN531	Information Services	INN343	Advanced Data Mining and Data Warehousing
INN532	Information Literacy Education	INN344	Search Engine Technology
INN533	Information Organisation	INN345	Mobile Devices
INN632-1	Professional Practice	INN346	Enterprise 2.0
INN632-2	Professional Practice	INN347	Web 2.0 Applications
INN632-3	Professional Practice	INN350	Internet Protocols and Services
INN632-4		INN351	Unix Network Administration
INN632-5	Professional Practice	INN352	Network Planning
INN632-6	Professional Practice	INN353	Wireless and Mobile Networks
	Please note: Students who begin a multi- component unit set (eg. INN632) must	INN355	Cryptology and Protocols
	complete the entire set.	INN365	Systems Programming
·		INN370	Software Development
Elective Ur		INN371	Data Structures and Algorithms
	Select any two Postgraduate units	INN372	Agile Software Development
Postgradu	ate IT Units	INN373	Web Application Development
		15.15.10.7.4	E (

Unit List:		INN374	Enterprise Software Architecture
INN101	Impact of IT	INN381	Modelling and Animation Techniques
INN120		INN382	Real Time Rendering Techniques
Tivivizo Corporate Systems		INN385	Multimedia Systems

	FACULTY OF SCIE			
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			
1810/17	OUDGO VOID			

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.

	TACOLII OI GOILN	OL AND	
Further In	formation	INN124	Information Systems Development
Further Information For further information about this course, please contact:		INN180	Computer Games Studies
For further information about this course, please contact.		INN181	Introduction to Games Production
Ross Hayv		INN210	Databases
	1 7 3138 2782 juiry.scitech@qut.edu.au	INN220	Business Analysis
Linaii. enq	uii y.soiteon@qut.euu.au	INN221	Technology Management
IT43 - MIT	(Network Management)	INN250	Foundations of Computer Science
Coro		INN251	Networks
Core	DDINGE2 (D) Project Management	INN255	Security
INN500	PRINCE2 (R) Project Management	INN270	Programming
All of the f	following units:	INN271	The Web
INN350	Internet Protocols and Services	INN272	Interaction Design
INN351	Unix Network Administration	INN280	Fundamentals of Game Design
INN352	Network Planning	INN311	Enterprise Systems
INN650	Advanced Network Management	INN312	Enterprise Systems Applications
In addition	a color 2 of the following unite:	INN313	Electronic Commerce Site Development
	n, select 3 of the following units:	INN320	Business Process Modelling
INN255	Security Wireless and Mahila Naturals	INN321	Business Process Management
INN353	Wireless and Mobile Networks	INN322	Information Systems Consulting
INN355	Cryptology and Protocols	INN330	Information Management
INN550	Computer Forensics	INN331	Management Issues for Information Professionals
INN600	Advanced Readings 1	INN332	Information Retrieval
INN601	Advanced Readings 2	INN333	Information Programs
INN602	Advanced Readings 3	INN335	Information Resources
INN605	Advanced Research 2	INN340	Database Design
INN606	Advanced Research 2	INN341	Software Development With Oracle
INN607	Advanced Research 3	INN342	Enterprise Data Mining and Data Analysis
INN651	Security Technologies	INN343	Advanced Data Mining and Data Warehousi
INN652	Advanced Cryptology	INN344	Search Engine Technology
INN700	Introduction To Research CCNA 1 and 2 Network Fundamentals and	INN345	Mobile Devices
INS450	Routing	INN346	Enterprise 2.0
INS451	CCNA 3 and 4 Lan Switching	INN347	Web 2.0 Applications
INS452	CCNP1: Building Scalable Internetworks	INN350	Internet Protocols and Services
INS453	CCNP 2: Implementing Secure Network	INN351	Unix Network Administration
	Coverage	INN352	Network Planning
INS454	CCNP3: Building Multi Layered Switched Networks	INN353	Wireless and Mobile Networks
INS455	CCNP4: Optimising Converged Networks	INN355	Cryptology and Protocols
INN701	Advanced Research Topics	INN365	Systems Programming
	·	INN370	Software Development
Elective Units		INN371	Data Structures and Algorithms
	Select any four Postgraduate Units	INN372	Agile Software Development
Postgradu	uate IT Units	INN373	Web Application Development
		INN374	Enterprise Software Architecture
Unit List:		INN381	Modelling and Animation Techniques
INN101	Impact of IT	INN382	Real Time Rendering Techniques
INN120	Corporate Systems	INN385	Multimedia Systems
INN122	Organisational Databases		· · · · · · · · · · · · · · · · · · ·

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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 7point 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: eng	uiry scitech@gut edu au	INN210	Databases
Email: enquiry.scitech@qut.edu.au		INN210	Business Analysis
IT43 - MIT (Security)		INN221	Technology Management
Core		INN250	Foundations of Computer Science
INN500	PRINCE2 (R) Project Management	INN251	Networks
11414300	TrinoL2 (IV) Floject Management	INN255	Security
All of the fo	ollowing units:	INN270	Programming
INN255	Security	INN271	The Web
INN651	Security Technologies	INN272	Interaction Design
In addition	, select 5 of the following units:	INN280	Fundamentals of Game Design
INN355	Cryptology and Protocols	INN311	Enterprise Systems
INN550	Computer Forensics	INN312	Enterprise Systems Applications
INN600	Advanced Readings 1	INN313	Electronic Commerce Site Development
INN601	Advanced Readings 2	INN320	Business Process Modelling
INN602	Advanced Readings 3	INN321	Business Process Management
INN602	Advanced Research 1	INN322	Information Systems Consulting
INN606	Advanced Research 2	INN330	Information Management
INN607	Advanced Research 3	INN331	Management Issues for Information
INN652	Advanced Cryptology	1111001	Professionals
INN690	Minor Project 1	INN332	Information Retrieval
INN690	Minor Project 2	INN333	Information Programs
	•	INN335	Information Resources
INN692 INN693	Minor Project 3	INN340	Database Design
INN693	Project 1	INN341	Software Development With Oracle
INN694-1	Project 1	INN342	Enterprise Data Mining and Data Analysis
INN695	Project Major Project	INN343	Advanced Data Mining and Data Warehousir
INN695	Major Project	INN344	Search Engine Technology
INN696-1	Major Project 1 Major Project 2	INN345	Mobile Devices
	Introduction To Research	INN346	Enterprise 2.0
INN700		INN347	Web 2.0 Applications
GSN440 JSN106	Risk Management 1	INN350	Internet Protocols and Services
	Applications of Discrete Methomatics	INN351	Unix Network Administration
MAN778	Applications of Discrete Mathematics	INN352	Network Planning
MGN423	Contemporary Strategic Analysis	INN353	Wireless and Mobile Networks
MGN433 INN701	Managing High-Performance Organisations	INN355	Cryptology and Protocols
	Advanced Research Topics	INN365	Systems Programming
LWN117	Cyber Law and Policy	INN370	Software Development
Elective U	nits	INN371	Data Structures and Algorithms
	Select any four Postgraduate Units	INN372	Agile Software Development
Postaradu	ate IT Units	INN373	Web Application Development
i osigiadu	ate ii oiits	INN374	Enterprise Software Architecture
Unit List:		INN381	Modelling and Animation Techniques
INN101	Impact of IT	INN382	Real Time Rendering Techniques
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

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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.

		INN270	Programming
Further Information		INN271	The Web
For further information about this course, please contact:		INN272	Interaction Design
Ross Hayward		INN280	Fundamentals of Game Design
	ward :1 7 3138 2782	INN311	Enterprise Systems
	quiry.scitech@qut.edu.au	INN312	Enterprise Systems Applications
IT 40 BAIT		INN312	Electronic Commerce Site Development
1143 - WIII	(Software Architecture)	INN320	Business Process Modelling
Core		INN321	Business Process Management
INN500	PRINCE2 (R) Project Management	INN321	Information Systems Consulting
	· · · · · · · · · · · · · · · · · · ·	INN330	Information Management
	following units:	INN331	Management Issues for Information
INN371	Data Structures and Algorithms	1111001	Professionals
INN372	Agile Software Development	INN332	Information Retrieval
INN374	Enterprise Software Architecture	INN333	Information Programs
INN570	Internationalisation of Software	INN335	Information Resources
In addition	n, select 3 of the following units:	INN340	Database Design
INN271	The Web	INN341	Software Development With Oracle
INN313	Electronic Commerce Site Development	INN342	Enterprise Data Mining and Data Analysis
INN365	Systems Programming	INN343	Advanced Data Mining and Data Warehousin
INN370	Software Development	INN344	Search Engine Technology
INN373	Web Application Development	INN345	Mobile Devices
INN600	Advanced Readings 1	INN346	Enterprise 2.0
INN601	Advanced Readings 2	INN347	Web 2.0 Applications
INN602	Advanced Readings 3	INN350	Internet Protocols and Services
INN605	Advanced Research 1	INN351	Unix Network Administration
INN606	Advanced Research 2	INN352	Network Planning
INN607	Advanced Research 3	INN353	Wireless and Mobile Networks
INN700	Introduction To Research	INN355	Cryptology and Protocols
INN701	Advanced Research Topics	INN365	Systems Programming
	/tavaneea rassaran repies	INN370	Software Development
Elective U	Inits	INN371	Data Structures and Algorithms
	Select any four Postgraduate Units	INN372	Agile Software Development
Postgradi	uate IT Units	INN373	Web Application Development
_		INN374	Enterprise Software Architecture
Unit List:		INN381	Modelling and Animation Techniques
INN101	Impact of IT	INN382	Real Time Rendering Techniques
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

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

CISCO VOIP

INS457

FACULTY OF SCIENCE AND TECHNOLOGY				
Maste	r of Information Technology	INN272	Interaction Design	
	nced) (IT44)	INN280	Fundamentals of Game Design	
Year offer		INN311	Enterprise Systems	
Admissio		INN312	Enterprise Systems Applications	
	code: 053123F	INN313	Electronic Commerce Site Development	
	uration (full-time): 2 years uration (part-time): 4 years	INN320	Business Process Modelling	
	e fees (indicative): 2011: Full fee tuition \$7,375	INN321	Business Process Management	
	e) per semester	INN322	Information Systems Consulting	
per semes	nal Fees (indicative): 2011: \$11,125 (indicative)	INN330	Information Management	
Domestic	Entry: February and July nal Entry: February and July	INN331	Management Issues for Information Professionals	
	lit points: 192	INN332	Information Retrieval	
	credit points per full-time semester: 48 credit points per part-time semester: 24	INN333	Information Programs	
	oordinator: Dr Ross Hayward	INN335	Information Resources	
	e coordinator: Dr Yue Xu	INN340	Database Design	
Campus:	Gardens Point	INN341	Software Development With Oracle	
IT44 Null	major option	INN342	Enterprise Data Mining and Data Analysis	
	jo. opino	INN343	Advanced Data Mining and Data Warehous	
Core		INN344	Search Engine Technology	
INN500	PRINCE2 (R) Project Management	INN345	Mobile Devices	
Flootives		INN346	Enterprise 2.0	
Electives	*Any IT postgraduate units not in the "Desig	INN347	Web 2.0 Applications	
	*Any IT postgraduate units not in the "Basic Unit List", such that at least one unit is of the	INN350	Internet Protocols and Services	
	form: INN5XX, INN6XX or INN7SS and the total unit set equals 84 credit points	INN351	Unix Network Administration	
	Plus	INN352	Network Planning	
	* any postgraduate units to 48 credit points	INN353	Wireless and Mobile Networks	
	any posigraduate units to 46 credit points	INN355	Cryptology and Protocols	
Advanced	Research Units (Project Units)	INN365	Systems Programming	
	Students of IT44 are required to complete 48	INN370	Software Development	
	credit points of advanced research/project units in the form of a 48 credit point Dissertation or	INN371	Data Structures and Algorithms	
	two 24 credit point Projects.	INN371	Agile Software Development	
Postgradu	uate IT Units	INN372	Web Application Development	
		INN373	Enterprise Software Architecture	
Unit List:		INN374		
INN101	Impact of IT	INN382	Modelling and Animation Techniques Real Time Rendering Techniques	
INN120	Corporate Systems			
INN122	Organisational Databases	INN385	Multimedia Systems	
INN124	Information Systems Development	INN386	Advanced Multimedia Systems	
INN180	Computer Games Studies	INN500	PRINCE2 (R) Project Management	
INN181	Introduction to Games Production	INN530	Web Content Reliability	
INN210	Databases	INN531	Information Services	
INN220	Business Analysis	INN532	Information Literacy Education	
INN221	Technology Management	INN533	Information Organisation	
INN250	Foundations of Computer Science	INN540	User Experience	
INN251	Networks	INN550	Computer Forensics	
INN255	Security	INN570	Internationalisation of Software	
INN270	Programming	INN600	Advanced Readings 1	
INN271	The Web	INN601	Advanced Readings 2	
11 11 14 1 1	THE TION	INN602	Advanced Readings 3	

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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

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

IT44 - Advanced Research/Project Units

Voice Over IP 1

CISCO VOIP

INS456

INS457

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 Minor Project 2 **INN691** Minor Project 3 INN692 INN693 Project

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 7point 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/postgraduat e/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 7point 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

	FACULTY OF SCIENC	CE AND	TECHNOLOGY
Select all	of the following units:	INN341	Software Development With Oracle
INN345 Mobile Devices		INN342	Enterprise Data Mining and Data Analysis
INN346	Enterprise 2.0	INN343	Advanced Data Mining and Data Warehousing
INN347	Web 2.0 Applications	INN344	Search Engine Technology
INN540	User Experience	INN345	Mobile Devices
INN690	Minor Project 1	INN346	Enterprise 2.0
KCP408	Exploring New Media Worlds	INN347	Web 2.0 Applications
	In addition, select any (total of 12 cp)	INN350	Internet Protocols and Services
	postgraduate IT units (INN code) not in the Basic Unit List.	INN351	Unix Network Administration
	Basic Office List.	INN352	Network Planning
Elective U	nits	INN353	Wireless and Mobile Networks
	Select any four Postgraduate units	INN355	Cryptology and Protocols
Advanced	Passarch Unite (Project unite)	INN365	Systems Programming
Auvanceu	Research Units (Project units) Students of IT44 are required to complete 48cp	INN370	Software Development
	of advanced research/project units in the forms	INN371	Data Structures and Algorithms
	of a 48cp Dissertation or two 24cp Projects.	INN372	Agile Software Development
Postgradu	uate IT Units	INN373	Web Application Development
		INN374	Enterprise Software Architecture
Unit List:		INN381	Modelling and Animation Techniques
INN101	Impact of IT	INN382	Real Time Rendering Techniques
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
INN313	Electronic Commerce Site Development		Management
INN320	Business Process Modelling	INN632-1	Professional Practice
INN321	Business Process Management	INN632-2	Professional Practice
INN322	Information Systems Consulting	INN632-3	Professional Practice
INN330	Information Management	INN632-4	Professional Practice
INN331	Management Issues for Information Professionals	INN632-5 INN632-6	Professional Practice Professional Practice
INN332	Information Retrieval	INN650	Advanced Network Management
INN333	Information Programs	INN650	Security Technologies
INN335	Information Resources	INN651	Advanced Cryptology
INN340	Database Design	INNICOO	Advanced Cryptology

INN690

Minor Project 1

INN340

Database Design

	FACULII O	F SCILNCL AND	ILCHNOLOG
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 (Postg	raduate)	
INS450	CCNA 1 and 2 Network Fundam Routing	nentals and	
INS451	CCNA 3 and 4 Lan Switching		
INS452	CCNP1: Building Scalable Intern	networks	
INS454	CCNP3: Building Multi Layered Networks	Switched	
INS456	Voice Over IP 1		
INS457	CISCO VOIP		

IT44 - Advanced Research/Project Units

Major Stud	y 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 7point 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

	FACULTY OF SCIENC	E AND	TECHNOLOGY
INN312	Enterprise Systems Applications	INN255	Security
	In addition, choose between the following:	INN270	Programming
INN610	Case Studies in Business Process	INN271	The Web
	Management	INN272	Interaction Design
	OR	INN280	Fundamentals of Game Design
NN690	Minor Project 1	INN311	Enterprise Systems
	OR	INN312	Enterprise Systems Applications
	Advanced Reading Enterprise System unit	INN313	Electronic Commerce Site Development
n additior	n, select four of the following units:	INN320	Business Process Modelling
NN220	Business Analysis	INN321	Business Process Management
NN320	Business Process Modelling	INN322	Information Systems Consulting
NN321	Business Process Management	INN330	Information Management
NN340	Database Design	INN331	Management Issues for Information
NN341	Software Development With Oracle		Professionals
NN342	Enterprise Data Mining and Data Analysis	INN332	Information Retrieval
NN343		INN333	Information Programs
NN600	Advanced Data Mining and Data Warehousing	INN335	Information Resources
	Advanced Readings 1	INN340	Database Design
NN601	Advanced Readings 2	INN341	Software Development With Oracle
NN602	Advanced Readings 3	INN342	Enterprise Data Mining and Data Analysis
NN605	Advanced Research 1	INN343	Advanced Data Mining and Data Warehous
NN606	Advanced Research 2	INN344	Search Engine Technology
NN607	Advanced Research 3	INN345	Mobile Devices
NN700	Introduction To Research	INN346	Enterprise 2.0
NN610	Case Studies in Business Process Management	INN347	Web 2.0 Applications
NN374	Enterprise Software Architecture	INN350	Internet Protocols and Services
NN701	Advanced Research Topics	INN351	Unix Network Administration
1414701	Advanced Resourch Topics	INN352	Network Planning
Elective L	Inits	INN353	Wireless and Mobile Networks
	Select any four Postgraduate Units	INN355	Cryptology and Protocols
Advanced	Research Units (Project Units)	INN365	Systems Programming
ta variocc	Students of IT44 are required to complete 48cp	INN370	Software Development
	of advanced research/project units in the form	INN371	Data Structures and Algorithms
	of a 48cp Dissertation or two 24cp Projects.	INN372	Agile Software Development
ostgrad	uate IT Units	INN373	Web Application Development
		INN374	Enterprise Software Architecture
Jnit List:		INN381	Modelling and Animation Techniques
NN101	Impact of IT	INN382	Real Time Rendering Techniques
NN120	Corporate Systems	INN385	Multimedia Systems
NN122	Organisational Databases	INN386	Advanced Multimedia Systems
NN124	Information Systems Development	INN500	PRINCE2 (R) Project Management
NN180	Computer Games Studies	INN530	Web Content Reliability
NN181	Introduction to Games Production	INN530	Information Services
NN210	Databases		
NN220	Business Analysis	INN532	Information Literacy Education
NN221	Technology Management	INN533	Information Organisation
NN250	Foundations of Computer Science	INN540	User Experience
NN251	Networks	INN550	Computer Forensics
		ININISZO	Internationalization of Software

INN570

Internationalisation of Software

INN691

INN692

INN693

INN695

INN696-1

INN694-1

INN694-2 Project

Minor Project 2

Minor Project 3

Major Project

Major Project 1

Project 1

INN696-2 Major Project 2

	FACULTY OF SCI
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

IT44 - Advanced Research/Project Units

Voice Over IP 1 CISCO VOIP

Major Study Areas

INS456

INS457

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

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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 7point 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

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
successful	completion of an approved 144 credit points.	INN271	The Web
	• "	INN272	Interaction Design
	formation	INN280	Fundamentals of Game Design
For further	information about this course, please contact:	INN311	Enterprise Systems
Dr Ross H	ayward	INN312	Enterprise Systems Applications
	1 7 3138 2782	INN313	Electronic Commerce Site Development
Email: enq	uiry.scitech@qut.edu.au	INN320	Business Process Modelling
IT44 - MIT	(Advanced) (Executive Information Practice)	INN321	Business Process Management
_		INN322	Information Systems Consulting
Core		INN330	Information Management
INN500	PRINCE2 (R) Project Management	INN331	Management Issues for Information Professionals
	following units:	INN332	Information Retrieval
INN630	Evidence Based Practice	INN333	Information Programs
INN631	Executive Coaching	INN335	Information Resources
	In addition, select any postgraduate (24 credit point) IT units not in the Basic Unit List.	INN340	Database Design
	paragraphic and a second of the cloth	INN341	Software Development With Oracle
In addition	n, select 6 (total of 36cps) of the following units:	INN342	Enterprise Data Mining and Data Analysis
INN700	Introduction To Research	INN343	Advanced Data Mining and Data Warehousing
GSN401	Managing in the Global Business Environment	INN344	Search Engine Technology
GSN403	Understanding Data	INN345	Mobile Devices
GSN404	Financial Statements Analysis	INN346	Enterprise 2.0
GSN405	Strategic Management	INN347	Web 2.0 Applications
GSN406	Human Resource Management Issues	INN350	Internet Protocols and Services
GSN407	Business Communication	INN351	Unix Network Administration
GSN408	Fundamentals of Marketing Management	INN352	Network Planning
GSN409	Organisational Behaviour 1	INN353	Wireless and Mobile Networks
GSN410	Entrepreneurship	INN355	Cryptology and Protocols
GSN412	Business Law 1	INN365	Systems Programming
GSN413	Financial Management 1	INN370	Software Development
GSN415	Understanding Leadership	INN371	Data Structures and Algorithms
GSN491	Economics in Business 1	INN372	Agile Software Development
Postgradu	uate IT Units	INN373	Web Application Development
		INN374	Enterprise Software Architecture
Unit List:		INN381	Modelling and Animation Techniques
INN101	Impact of IT	INN382	Real Time Rendering Techniques
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

INN255

INN270 INN271

INN272

Security

The Web

Programming

Interaction Design

	FACULTY OF SCIE
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

Basic Unit List

INS457

INN251

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

Networks

CISCO VOIP

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

Core

Email: enquiry.scitech@qut.edu.au

IT44 - MIT (Advanced) (Games Design)

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:		INN330	Information Management
INN181	Introduction to Games Production	INN331	Management Issues for Information Professionals
INN385	Multimedia Systems	ININIOOO	
INN386	Advanced Multimedia Systems	INN332	Information Retrieval
INN600	Advanced Readings 1	INN333	Information Programs
INN601	· ·	INN335	Information Resources
	· ·	INN340	Database Design
INN700		INN341	Software Development With Oracle
KIB201	Concept Development for Game Design and Interactive Media	INN342	Enterprise Data Mining and Data Analysis
KIB202	Enabling Immersion	INN343	Advanced Data Mining and Data Warehousing
INN381	Modelling and Animation Techniques	INN344	Search Engine Technology
INN382	Real Time Rendering Techniques	INN345	Mobile Devices
INN383	Al for Games	INN346	Enterprise 2.0
MAN28	Mathematics for Computer Graphics	INN347	Web 2.0 Applications
INN701	Advanced Research Topics	INN350	Internet Protocols and Services
INN282	2 Games Level Design	INN351	Unix Network Administration
		INN352	Network Planning
Elective Units		INN353	Wireless and Mobile Networks

INN355

INN365

INN370

INN371

INN372

INN373

Cryptology and Protocols

Systems Programming

Software Development

Data Structures and Algorithms

Agile Software Development

Web Application Development

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:		INN374	Enterprise Software Architecture
INN101	Impact of IT	INN381	Modelling and Animation Techniques
INN120	Corporate Systems	INN382	Real Time Rendering Techniques
INN120	Organisational Databases	INN385	Multimedia Systems
INN124	Information Systems Development	INN386	Advanced Multimedia Systems
INN124 INN180	•	INN500	PRINCE2 (R) Project Management
	Computer Games Studies	INN530	Web Content Reliability
INN181	Introduction to Games Production	INN531	Information Services
INN210	Databases Purious Analysis	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		
INN311	Enterprise Systems	INN606	Advanced Research 2
INN312	Enterprise Systems Applications	INN607	Advanced Research 3
INN313	Electronic Commerce Site Development	INN610	Case Studies in Business Process Management
INN320	Business Process Modelling	INN632-1	Professional Practice
INN321	Business Process Management	INN632-2	Professional Practice
INN322	Information Systems Consulting	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

IT44 - Advanced Research/Project Units

CISCO VOIP

INS457

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 7point 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

Core

Email: enquiry.scitech@qut.edu.au

IT44 - MIT (Advanced) (Games Production)

COLE	
INN500	PRINCE2 (R) Project Management
All of the fo	llowing 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	Rusiness	Environment
CONTO	Manadina	111 1110	Olobai	Dusiliess	

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 7point 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

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INN220	Business Analysis	INN330	Information Management
INN255	Security	INN331	Management Issues for Information
INN330	Information Management		Professionals
INN335	Information Resources	INN332	Information Retrieval
		INN333	Information Programs
In addition	n, select 2 of the following units:	INN335	Information Resources
INN334	Information Issues and Values	INN340	Database Design
INN540	User Experience	INN341	Software Development With Oracle
INN700	Introduction To Research	INN342	Enterprise Data Mining and Data Analysis
INN600	Advanced Readings 1	INN343	Advanced Data Mining and Data Warehousi
INN601	Advanced Readings 2	INN344	Search Engine Technology
INN602	Advanced Readings 3	INN345	Mobile Devices
INN605	Advanced Research 1	INN346	Enterprise 2.0
INN606	Advanced Research 2	INN347	Web 2.0 Applications
INN607	Advanced Research 3	INN350	Internet Protocols and Services
INN701	Advanced Research Topics	INN351	Unix Network Administration
Elective U	Inits	INN352	Network Planning

INN353

INN355

INN365

INN370

INN371

INN372

INN373

Wireless and Mobile Networks

Data Structures and Algorithms

Agile Software Development

Web Application Development

Cryptology and Protocols

Systems Programming

Software Development

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:		INN374	Enterprise Software Architecture
INN101	Impact of IT	INN381	Modelling and Animation Techniques
INN120	Corporate Systems	INN382	Real Time Rendering Techniques
INN122	Organisational Databases	INN385	Multimedia Systems
INN124	Information Systems Development	INN386	Advanced Multimedia Systems
INN180	Computer Games Studies	INN500	PRINCE2 (R) Project Management
INN181	Introduction to Games Production	INN530	Web Content Reliability
INN210	Databases	INN531	Information Services
INN220	Business Analysis	INN532	Information Literacy Education
INN221	Technology Management	INN533	Information Organisation
INN250	Foundations of Computer Science	INN540	User Experience
INN251	Networks	INN550	Computer Forensics
INN255	Security	INN570	Internationalisation of Software
INN270	Programming	INN600	Advanced Readings 1
INN271	The Web	INN601	Advanced Readings 2
INN272	Interaction Design	INN602	Advanced Readings 3
INN280	Fundamentals of Game Design	INN605	Advanced Research 1
INN311	Enterprise Systems	INN606	Advanced Research 2
INN312	Enterprise Systems Applications	INN607	Advanced Research 3
INN313	Electronic Commerce Site Development	INN610	Case Studies in Business Process Management
INN320	Business Process Modelling	INN632-1	Professional Practice
INN321	Business Process Management	INN632-2	Professional Practice
INN322	Information Systems Consulting	INN632-3	
		11414002-0	1 TOTOGOTOTIAL I TAUGIOG

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

IT44 - Advanced Research/Project Units

CISCO VOIP

INS457

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

		INN272	Interaction Design
IT44 - MIT	(Advanced) (Library and Information Science)	INN280	Fundamentals of Game Design
Core		INN311	Enterprise Systems
INN500	PRINCE2 (R) Project Management	INN312	Enterprise Systems Applications
IININGOO	OR	INN313	Electronic Commerce Site Development
INN690	Minor Project 1	INN320	Business Process Modelling
IININOSO	Willion Project 1	INN321	Business Process Management
Select all c	of the following units:	INN322	Information Systems Consulting
INN330	Information Management	INN330	Information Management
INN331	Management Issues for Information Professionals	INN331	Management Issues for Information Professionals
INN332	Information Retrieval	INN332	Information Retrieval
INN333	Information Programs	INN333	Information Programs
INN530	Web Content Reliability	INN335	Information Resources
INN531	Information Services	INN340	Database Design
INN532	Information Literacy Education	INN341	Software Development With Oracle
INN533	Information Organisation	INN342	Enterprise Data Mining and Data Analysis
INN632-1	Professional Practice	INN343	Advanced Data Mining and Data Warehousing
INN632-2	Professional Practice	INN344	Search Engine Technology
INN632-3	Professional Practice	INN345	Mobile Devices
INN632-4	Professional Practice	INN346	Enterprise 2.0
INN632-5	Professional Practice	INN347	Web 2.0 Applications
INN632-6	Professional Practice	INN350	Internet Protocols and Services
	Students who begin a multi-component unit set (eg. INN632), must complete the entire set.	INN351	Unix Network Administration
	(eg. INN632), must complete the entire set.	INN352	Network Planning
Elective Ur	nits	INN353	Wireless and Mobile Networks
	Select any two Postgraduate Units.	INN355	Cryptology and Protocols
Advanced	December 1 Inite (Preject unite)	INN365	Systems Programming
Auvanceu	Research Units (Project units)	INN370	Software Development
	Students of IT44 are required to complete 48cp of advanced research/project units in the form	INN371	Data Structures and Algorithms
	of a 48cp Dissertation or two 24cp Projects.	INN372	Agile Software Development
Postgradu	ate IT Units	INN373	Web Application Development
		INN374	Enterprise Software Architecture
Unit List:		INN381	Modelling and Animation Techniques
INN101	Impact of IT	INN382	Real Time Rendering Techniques
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

INN694-1 Project 1 INN694-2 Project

INN696-1 Major Project 1 INN696-2 Major Project 2

Major Project

INN695

	FACULTY OF SCII
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

IT44 - Advanced Research/Project Units

Voice Over IP 1 CISCO VOIP

INS456

INS457

Major Stud _!	y 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 7point 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

	FACULTY OF SCIENC	E AND	TECHNOLOGY
INN351	Unix Network Administration	INN271	The Web
INN352	Network Planning	INN272	Interaction Design
INN650	Advanced Network Management	INN280	Fundamentals of Game Design
In addition	n coloct 2 of the following unite:	INN311	Enterprise Systems
	n, select 3 of the following units:	INN312	Enterprise Systems Applications
INN255	Security Windows and Makila Naturatus	INN313	Electronic Commerce Site Development
INN353	Wireless and Mobile Networks	INN320	Business Process Modelling
INN355	Cryptology and Protocols	INN321	Business Process Management
INN550	Computer Forensics	INN322	Information Systems Consulting
INN600	Advanced Readings 1	INN330	Information Management
INN601 INN602	Advanced Readings 2 Advanced Readings 3	INN331	Management Issues for Information Professionals
INN605	Advanced Research 1	INN332	Information Retrieval
INN606	Advanced Research 2	INN333	Information Programs
INN607	Advanced Research 3	INN335	Information Resources
INN651	Security Technologies	INN340	Database Design
INN652	Advanced Cryptology	INN341	Software Development With Oracle
INN700	Introduction To Research	INN342	Enterprise Data Mining and Data Analysis
INS450	CCNA 1 and 2 Network Fundamentals and Routing	INN343	Advanced Data Mining and Data Warehousing
INS451	CCNA 3 and 4 Lan Switching	INN344	Search Engine Technology
INS452	CCNP1: Building Scalable Internetworks	INN345	Mobile Devices
INS454	CCNP3: Building Multi Layered Switched Networks	INN346 INN347	Enterprise 2.0 Web 2.0 Applications
INS455	CCNP4: Optimising Converged Networks	INN350	Internet Protocols and Services
INN701	Advanced Research Topics	INN351	Unix Network Administration
11414701	Advanced Research Topics	INN352	Network Planning
Elective Units		INN353	Wireless and Mobile Networks
	Select any four Postgraduate Units.	INN355	Cryptology and Protocols
Advanced Research Units (Project Units)		INN365	Systems Programming
	, , ,	INN370	Software Development
	Students of IT44 are required to complete 48cp of advanced research/project units in the form of a 48cp Dissertation or two 24cp Projects.	INN371	Data Structures and Algorithms
	or a 40cp dissertation or two 24cp Projects.	INN372	Agile Software Development
D ()	4 199 11 14		

Postgraduate IT Units

Unit List:		INN374	Enterprise Software Architecture
INN101	Impact of IT	INN381	Modelling and Animation Techniques
	•	INN382	Real Time Rendering Techniques
INN120	Corporate Systems	INN385	Multimedia Systems
INN122	Organisational Databases		·
INN124	Information Systems Development	INN386	Advanced Multimedia Systems
INN180	Computer Games Studies	INN500	PRINCE2 (R) Project Management
INN181	Introduction to Games Production	INN530	Web Content Reliability
		INN531	Information Services
INN210	Databases		Information Literacy Education
INN220	Business Analysis	INN532	Information Literacy Education
INN221	Technology Management	INN533	Information Organisation
INN250	Foundations of Computer Science	INN540	User Experience
	·	INN550	Computer Forensics
INN251	Networks	INN570	Internationalisation of Software
INN255	Security		
INN270	Programming	INN600	Advanced Readings 1
	99	INN601	Advanced Readings 2

INN373

Web Application Development

INN693

INN695

Project

INN696-1 Major Project 1 INN696-2 Major Project 2

Major Project

INN694-1 Project 1 INN694-2 Project

	FACULTY OF SCII
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

INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals a Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INICAEA	CCND2, Duilding Multi Layared Curitaha

INS456 Voice Over IP 1 INS457 CISCO VOIP

IT44 - Advanced Research/Project Units

Major Study	y 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 7point 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

Core

Email: enquiry.scitech@qut.edu.au

IT44 - MIT (Advanced) (Security)

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	INN280	Fundamentals of Game Design
INN602	Advanced Readings 3	INN311	Enterprise Systems
INN605	Advanced Research 1	INN312	Enterprise Systems Applications
INN606	Advanced Research 2	INN313	Electronic Commerce Site Development
INN607	Advanced Research 3	INN320	Business Process Modelling
INN652	Advanced Cryptology	INN321	Business Process Management
INN690	Minor Project 1	INN322	Information Systems Consulting
INN691	Minor Project 2	INN330	Information Management
INN693	Project	INN331	Management Issues for Information Professionals
INN694-1	Project 1	INN332	Information Retrieval
INN694-2	Project		
INN695	Major Project	INN333	Information Programs
INN696-1	Major Project 1	INN335	Information Resources
INN696-2	Major Project 2	INN340	Database Design
INN700	Introduction To Research	INN341	Software Development With Oracle
GSN440	Risk Management 1	INN342	Enterprise Data Mining and Data Analysis
JSN106	Analytical Methods of Intelligence	INN343	Advanced Data Mining and Data Warehou
MAN778	Applications of Discrete Mathematics	INN344	Search Engine Technology
MGN423	Contemporary Strategic Analysis	INN345	Mobile Devices
MGN433	Managing High-Performance Organisatio	ns INN346	Enterprise 2.0
INN701	Advanced Research Topics	INN347	Web 2.0 Applications
LWN117	Cyber Law and Policy	INN350	Internet Protocols and Services
LVVIN I I/	Cyber Law and I oney	INN351	Unix Network Administration
		INN352	Network Planning
Election III	14		-

INN353

INN355

INN365

INN370

INN371

INN372

INN373

Wireless and Mobile Networks

Data Structures and Algorithms

Agile Software Development

Web Application Development

Cryptology and Protocols Systems Programming

Software Development

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:		INN374	Enterprise Software Architecture
INN101	Impact of IT	INN381	Modelling and Animation Techniques
INN120	Corporate Systems	INN382	Real Time Rendering Techniques
INN122	Organisational Databases	INN385	Multimedia Systems
INN124	Information Systems Development	INN386	Advanced Multimedia Systems
	·	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		•
INN255	Security	INN570	Internationalisation of Software
INN270	Programming	INN600	Advanced Readings 1
INN271	The Web	INN601	Advanced Readings 2
INN272	Interaction Design	INN602	Advanced Readings 3
	moradion boolgii	INN605	Advanced Research 1

	FACULTY OF SCI
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

INN696-1 Major Project 1 INN696-2 Major Project 2

Major Project

INN694-2 Project

INN695

IT44 - Advanced Research/Project Units

CISCO VOIP

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

INN693 Project 1 INN694-1 Project 1

INS457

Major Study Areas

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 7point 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

	FACULTY OF SCIENC	E AND	TECHNOLOGY
INN372	Agile Software Development	INN321	Business Process Management
INN374	Enterprise Software Architecture	INN322	Information Systems Consulting
INN570	Internationalisation of Software	INN330	Information Management
In addition	n, select 3 of the following units:	INN331	Management Issues for Information Professionals
INN271	The Web	INN332	Information Retrieval
INN313	Electronic Commerce Site Development	INN333	Information Programs
INN365	Systems Programming	INN335	Information Resources
INN370	Software Development	INN340	Database Design
INN373	Web Application Development	INN341	Software Development With Oracle
INN600	Advanced Readings 1	INN342	Enterprise Data Mining and Data Analysis
INN601	Advanced Readings 2	INN343	Advanced Data Mining and Data Warehous
INN602	Advanced Readings 3	INN344	Search Engine Technology
INN605	Advanced Research 1	INN345	Mobile Devices
INN606	Advanced Research 2	INN346	Enterprise 2.0
INN607	Advanced Research 3	INN347	Web 2.0 Applications
INN700	Introduction To Research	INN350	Internet Protocols and Services
INN701	Advanced Research Topics	INN351	Unix Network Administration
Elective Units		INN352	Network Planning
Select any four Postgraduate Units.		INN353	Wireless and Mobile Networks
	Select any lour Postgraduate Offics.	INN355	Cryptology and Protocols
Advanced	Research Units (Project Units)	INN365	Systems Programming
	Students of IT44 are required to complete 48cp	INN370	Software Development
	of advanced research/project units in the form of a 48cp Dissertation or two 24cp Projects.	INN371	Data Structures and Algorithms
Postgraduate IT Units		INN372	Agile Software Development
		INN373	Web Application Development
Unit List:		INN374	Enterprise Software Architecture
INN101	Impact of IT	INN381	Modelling and Animation Techniques
INN120	Corporate Systems	INN382	Real Time Rendering Techniques
INN122	Organisational Databases	INN385	Multimedia Systems
INN124	Information Systems Development	INN386	Advanced Multimedia Systems
INN180	Computer Games Studies	INN500	PRINCE2 (R) Project Management
INN181	Introduction to Games Production	INN530	Web Content Reliability
INN210	Databases	INN531	Information Services
INN220	Business Analysis	INN532	Information Literacy Education
INN221	Technology Management	INN533	Information Organisation
ININIOEO	Formulations of Community and Colonics	INN540	User Experience

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

IT44 - Advanced Research/Project Units

CISCO VOIP

INS457

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

Advanced Level 1 Onits		
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

	•
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

Minor Project 1

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.

INN2/1	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)

Master of E	ousiliess Frocess Management (2010 & 2011
Non-IT grad	duates 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 graduate	es 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

Block B Core Units 4 Minimum

INN330

INN500

Block B coro critto i minimidin	
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

PRINCE2 (R) Project Management

Information Management

Block C Elective Units 24cp Minimum

12 cp FIT industry or research project24 cp FIT industry or research project48 cp FIT industry or research project12 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	Fatauria Ousta		
only INN331	Management legues for Information	INN311	Enterprise Systems
IIVINOOI	Management Issues for Information Professionals	INN610	Case Studies in Enterprise Systems
INN690	Minor Project 1	INN321	Business Process Management
AND	Students must choose 2 of the following units:	INN320	Business Process Modelling
INN120	Corporate Systems	Grad Cert	Corporate Systems Management IT62 exit point
INN101	Impact of IT	only	
INN122	Organisational Databases	INN331	Management Issues for Information Professionals
INN500	PRINCE2 (R) Project Management		Project Unit (Unit code yet to be finalised)
INN124	Information Systems Development	AND	Students must choose 2 of the following units:
INN220	Business Analysis	INN120	Corporate Systems
INN221	Technology Management	INN101	Impact of IT
Master of	Business Process Management (2009)	INN122	Organisational Databases
		INN123	Project Management Practice
	tes Gateway Units 4 only	INN124	Information Systems Development
INN700	Introduction To Research	INN220	Business Analysis
INN311	Enterprise Systems	INN221	Technology Management
INN340	Database Design		
INN312	Enterprise Systems Applications	Postgradi	uate IT Units
INN221	Technology Management	Unit List:	
INN322	Information Systems Consulting	INN101	Impact of IT
INN330	Information Management	INN120	Corporate Systems
INN500	IT Project Management	INN122	Organisational Databases
Non-IT gra	aduates Basic Units 4 only	INN124	Information Systems Development
INN120	Corporate Systems	INN180	Computer Games Studies
INN101	Impact of IT	INN181	Introduction to Games Production
INN122	Organisational Databases	INN210	Databases
INN123	Project Management Practice	INN220	Business Analysis
INN124	Information Systems Development	INN221	Technology Management
INN220	Business Analysis	INN250	Foundations of Computer Science
INN221	Technology Management	INN251	Networks
DI 1 D 0	11.75 4.847	INN255	Security
	ore Units 4 Minimum	INN270	Programming
INN323	Smart Services	INN271	The Web
INN610	Case Studies in Enterprise Systems	INN272	Interaction Design
INN331	Management Issues for Information Professionals	INN280	Fundamentals of Game Design
INN321	Business Process Management	INN311	Enterprise Systems
INN320	Business Process Modelling	INN312	Enterprise Systems Applications
	Project Unit (Unit code yet to be finalised)	INN313	Electronic Commerce Site Development
Diagle O.E.	lestive Unite 24 on Minimur-	INN320	Business Process Modelling
BIOCK C E	lective Units 24cp Minimum	INN321	Business Process Management
	12 cp FIT industry or research project	INN322	Information Systems Consulting
	24 cp FIT industry or research project	INN330	Information Management
	48 cp FIT industry or research project 12 cp QUT post-graduate elective units	INN331	Management Issues for Information Professionals
		INN332	Information Retrieval
Grad Cert	Business Process Management IT61 exit point	INN333	Information Programs

	TACCETT OF SCIENCE	L AND	ILOHNOLOGI
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
INN370	Software Development		Routing
INN371	Data Structures and Algorithms	INS451	CCNA 3 and 4 Lan Switching
INN372	Agile Software Development	INS452	CCNP1: Building Scalable Internetworks
INN373	Web Application Development	INS454	CCNP3: Building Multi Layered Switched Networks
INN374	Enterprise Software Architecture	INICAEC	Voice Over IP 1
INN381	Modelling and Animation Techniques	INS456	
INN382	Real Time Rendering Techniques	INS457	CISCO VOIP
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		

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 7point 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

ININI224

IININ33 I	Professionals
INN333	Information Programs
INN335	Information Resources
INN632-1	Professional Practice
INN632-2	Professional Practice

Management leaves for Information

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 DatabasesINN632-1 Professional Practice

Year 1, Semester 2

INN330 Information ManagementINN533 Information OrganisationINN632-2 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 OrganisationITN276 Information ServicesITN266 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 ServicesITN319 Records SystemsITN280-4 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:

FACULTY OF SCIENCE AND TECHNOLOGY 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	INN320	Business Process Modelling
	knowledge in related fields, improve your	INN320	Business Process Management
	understanding of project management, develop venture capital, leadership competencies or to		•
	lead research groups.	INN322	Information Systems Consulting
	Coursework should normally be completed within the first year, subject to unit availability.	INN330 INN331	Information Management Management Issues for Information
	Variations to this would be made in consultation with your supervisory team.	11.11.000	Professionals
	conduction with your caporvisory tourn.	INN332	Information Retrieval
Year 1, Se	mester 2	INN333	Information Programs
INN701	Advanced Research Topics	INN335	Information Resources
	A literature review of the related theory.	INN340	Database Design
INN691	Minor Project 2	INN341	Software Development With Oracle
	A literature review of the relevant research	INN342	Enterprise Data Mining and Data Analysis
	methods and approaches that may be of use.	INN343	Advanced Data Mining and Data Warehousing
INN692	Minor Project 3	INN344	Search Engine Technology
	A pilot study of the selected theory and method to a subset of the problem in order to test the	INN345	Mobile Devices
	efficacy of the methods and theories selected.	INN346	Enterprise 2.0
INN700	Introduction To Research	INN347	Web 2.0 Applications
	Student constructs an integrated research	INN350	Internet Protocols and Services
	proposal.	INN351	Unix Network Administration
Year 2 to Y	/par 3	INN352	Network Planning
1001 2 10 1	Cai o	INN353	Wireless and Mobile Networks
Computer	Science	INN355	Cryptology and Protocols
IFT821	Thesis	INN365	Systems Programming
lus for man of the m	Curkoma	INN370	Software Development
Information	•	INN371	Data Structures and Algorithms
IFT822	Thesis	INN372	Agile Software Development
Postgradu	ate IT Units	INN373	Web Application Development
		INN374	Enterprise Software Architecture
Unit List:		INN381	Modelling and Animation Techniques
INN101	Impact of IT	INN382	Real Time Rendering Techniques
INN120	Corporate Systems		· ·
INN122	Organisational Databases	INN385	Multimedia Systems
INN124	Information Systems Development	INN386	Advanced Multimedia Systems
INN180	Computer Games Studies	INN500	PRINCE2 (R) Project Management
INN181	Introduction to Games Production	INN530	Web Content Reliability
INN210	Databases	INN531	Information Services
INN220	Business Analysis	INN532	Information Literacy Education
INN221	Technology Management	INN533	Information Organisation
INN250	Foundations of Computer Science	INN540	User Experience
INN251	Networks	INN550	Computer Forensics
INN255	Security	INN570	Internationalisation of Software
INN270	Programming	INN600	Advanced Readings 1
INN271	The Web	INN601	Advanced Readings 2
INN272	Interaction Design	INN602	Advanced Readings 3
INN280	Fundamentals of Game Design	INN605	Advanced Research 1
INN311	Enterprise Systems	INN606	Advanced Research 2
INN311	Enterprise Systems Applications	INN607	Advanced Research 3
INN312 INN313	Electronic Commerce Site Development	INN610	Case Studies in Business Process
UNINOTO	Figoriating commence one pevelohingur		Management

FACULTY OF SCIE
Professional Practice
Advanced Network Management
Security Technologies
Advanced Cryptology
Minor Project 1
Minor Project 2
Minor Project 3
Project
Project 1
Project
Major Project
Major Project 1
Introduction To Research
Major Project 2
Advanced Research Topics
Advanced Game Design
Professional Experience (Postgraduate)
CCNA 1 and 2 Network Fundamentals and Routing
CCNA 3 and 4 Lan Switching
CCNP1: Building Scalable Internetworks
CCNP3: Building Multi Layered Switched Networks
Voice Over IP 1
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 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

Postgraduate IT Units

Unit List:

INN101 Impact of IT

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ostgraduate)
ndamentals a
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Internetworks
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orda ewitorio
orda evinorio

 FACULTY	O F	SCIENCE	AND	TECHNOLOGY	-

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 7point 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

FACULTY OF SCIENCE AND TECHNOLOGY **Executive Information Practice PLUS** Any 1 unit from: Library and Information Science **INN500** PRINCE2 (R) Project Management **INN281** Advanced Game Design Information Management Digital Environments **INN600** Advanced Readings 1 **INN601** Advanced Readings 2 IT85 - Major Options KIB201 Concept Development for Game Design and Interactive Media KIB202 **Enabling Immersion** *Any IT postgraduate units to the total of 48 credit points **INN282** Games Level Design Software Architecture Security Any four units from: **INN255** Security **Data Structures and Algorithms INN651** Security Technologies Agile Software Development **PLUS** Any 2 units from: **Enterprise Software Architecture INN700** Introduction To Research Internationalisation of Software **INN355** Cryptology and Protocols PRINCE2 (R) Project Management INN652 Advanced Cryptology Software Development **INN550** Computer Forensics MGN524 Special Topic in Management 1 **Network Management** AYN410 **Business Law and Ethics** Any four units from: MGN433 Managing High-Performance Organisations Internet Protocols and Services MGN423 Contemporary Strategic Analysis **Unix Network Administration GSN440** Risk Management 1 **Network Planning JSN106** Analytical Methods of Intelligence **Advanced Network Management MAN778** Applications of Discrete Mathematics PRINCE2 (R) Project Management LWN139 Privacy Law **Enterprise Systems** LWN125 Electronic Commerce Law Any 4 units from: **INN690** Minor Project 1 **INN691** Minor Project 2 **Enterprise Systems Enterprise Systems Applications INN692** Minor Project 3 **Enterprise Software Architecture** INN694-1 Project 1 Case Studies in Business Process INN694-2 **Project** Management Major Project 1 INN696-1 PRINCE2 (R) Project Management INN696-2 Major Project 2 **INN600** Advanced Readings 1 **INN601** Advanced Readings 2 **INN602** Advanced Readings 3 **INN605** Advanced Research 1 Advanced Research 2 **INN606**

Games Pr	oduction
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

No Major

INNXXX

INN371

INN372

INN374

INN570

INN500

INN370

INN350

INN351

INN352

INN650

INN500

INN311

INN312

INN374

INN610

INN500

Games Des	sign
INN180	Computer Games Studies
INN280	Fundamentals of Game Design
INN272	Interaction Design

Library and	Information Science
INN690	Minor Project 1
PLUS	Any 3 units from:
INN332	Information Retrieval
INN531	Information Services
INN533	Information Organisation

Advanced Research 3

Project

Major Project

INN607

INN693

INN695

	FACULTY OF SCIENCE	E AND	TECHNOLOGY
INN333	Information Programs	GSN404	Financial Statements Analysis
INN530	Web Content Reliability	GSN405	Strategic Management
INN532	Information Literacy Education	GSN406	Human Resource Management Issues
INN632-1	Professional Practice	GSN407	Business Communication
INN632-2	Professional Practice	GSN408	Fundamentals of Marketing Management
INN632-3	Professional Practice	GSN409	Organisational Behaviour 1
INN632-4	Professional Practice	GSN410	Entrepreneurship
INN632-6	Professional Practice	GSN412	Business Law 1
INN632-5	Professional Practice	GSN413	Financial Management 1
INN330	Information Management	GSN415	Understanding Leadership
INN331	Management Issues for Information Professionals	GSN491	Economics in Business 1
INN271	The Web	Digital Env	rironments
INN700	Introduction To Research	INN345	Mobile Devices
INN342	Enterprise Data Mining and Data Analysis	INN346	Enterprise 2.0
INN540	User Experience	INN347	Web 2.0 Applications
INN600	Advanced Readings 1	INN500	PRINCE2 (R) Project Management
INN605	Advanced Research 1	INN540	User Experience
CLN601	Cyberlearning	KCP408	Exploring New Media Worlds
CLN603	Designing Spaces for Learning	Postgradu	ate IT Units
CLN647	Youth, Popular Culture, and Texts		
CLN650	Information-Learning Nexus	Unit List:	
EDN611	Professional Applications of Research	INN101	Impact of IT
KCP408	Exploring New Media Worlds	INN120	Corporate Systems
MDN642	Digital Pedagogies	INN122	Organisational Databases
INN345	Mobile Devices	INN124	Information Systems Development
INN500	PRINCE2 (R) Project Management	INN180	Computer Games Studies
INN347	Web 2.0 Applications	INN181	Introduction to Games Production
Information	n Management	INN210	Databases
INN330	Information Management	INN220	Business Analysis
INN335	Information Resources	INN221	Technology Management
INN530	Web Content Reliability	INN250	Foundations of Computer Science
PLUS	Any 1 unit from:	INN251	Networks
INN122	Organisational Databases	INN255	Security
INN255	Security	INN270	Programming
INN220	Business Analysis	INN271	The Web
INN334	Information Issues and Values	INN272	Interaction Design
INN345	Mobile Devices	INN280	Fundamentals of Game Design
INN346	Enterprise 2.0	INN311	Enterprise Systems
INN540	User Experience	INN312	Enterprise Systems Applications
INN347	Web 2.0 Applications	INN313	Electronic Commerce Site Development
IIIII	WOD 2.0 Applications	INN320	Business Process Modelling
Executive	Information Practice	INN321	Business Process Management
INN630	Evidence Based Practice	INN322	Information Systems Consulting
INN631	Executive Coaching	INN330	Information Management
PLUS GSN401	Any 2 units from: Managing in the Global Business Environment	INN331	Management Issues for Information Professionals
GSN403	Understanding Data	INN332	Information Retrieval

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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
INN370	Software Development		Routing
INN371	Data Structures and Algorithms	INS451	CCNA 3 and 4 Lan Switching
INN372	Agile Software Development	INS452	CCNP1: Building Scalable Internetworks
INN373	Web Application Development	INS454	CCNP3: Building Multi Layered Switched Networks
INN374	Enterprise Software Architecture	INS456	Voice Over IP 1
INN381	Modelling and Animation Techniques	INS457	CISCO VOIP
INN382	Real Time Rendering Techniques	1140-107	
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		

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.gut.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 ProtocolsINN652 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
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INN312 Enterprise Systems ApplicationsINN610 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
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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

OPTIONA One of the following Basic units:

1

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 DesignINN385 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.gut.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@gut.edu.au

Education Coordinator

Dr Mal Shield

Phone: +61 7 3138 3323 Email: m.shield@qut.edu.au

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 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

Geoscience Major (Biogeosciences Discipline)

Dr Gary Huftile

Phone: +61 7 3138 2782

Email: enquiry.scitech@qut.edu.au

Mathematics Major (Mathematical Sciences Discipline)

Prof Graeme Pettet

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Microbiology Major (Cell and Molecular Biosciences

Discipline)

Dr Christine Knox Phone: +61 7 3138 2782

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Physics Major (Physics Discipline)

Dr Stephen Hughes Phone: +61 7 3138 2782

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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

	TAGGETT OF GOTEN	OL AND	TECHNOLOGI
Year 3, Se	emester 2	Year 2, Se	emester 2
EDB003	Teaching and Learning Studies 3: Practising	LQB481	Biochemical Pathways and Metabolism
EDDOSS	Education	LQB483	Molecular Biology Techniques
EDB032	Secondary Field Studies 2	MDB454	Science, Technology and Society
	Curriculum Studies 2X (See List 2)	LQB681	Biochemical Research Skills
	Curriculum Studies 2Y (See List 2)		Science Elective (See list)
Year 4, Se	emester 1	Year 3, Se	emester 1
EDB004	Teaching and Learning Studies 4: Inclusive Education	LQB581	Functional Biochemistry
EDB033	Secondary Field Studies 3	LQB582	Biomedical Research Technologies
LDD000	Curriculum Studies 3X (See List 3)	LQB583	Genetic Research Technology
	Curriculum Studies 3Y (See List 3)		Science Elective (See list)
	· · ·	Course st	ructure - Major in Biotechnology
Year 4, 6T		oodi se st	ruotare - major in Bioteonnology
EDB005	Teaching and Learning Studies 5: Professional Work of Teachers	Year 1, Se	emester 1
EDB007	Culture Studies: Indigenous Education	SCB110	Science Concepts and Global Systems
	(students must enrol in the 6TP4 mode for both	SCB111	Chemistry 1
	EDB005 and EDB007)	SCB112	Cellular Basis of Life
	EDB005 is delivered through the Stepping Out Conference, which runs over 3 days in 'O'		Plus either:
	Week of Semester 2 (dates TBA).	MAB101	Statistical Data Analysis 1
Vacr 1 Ca	amaatas 2		Or
Year 4, Se	Please note that successful completion of all	MAB105	Preparatory Mathematics
	other coursework is required before students	Year 1, Semester 2	
	can commence the final Field Studies EDB034 and Internship EDB035.	SCB120	Plant and Animal Physiology
EDB034	Secondary Field Studies 4	SCB121	Chemistry 2
EDB035	Internship (Secondary)	SCB122	Cell and Molecular Biology
0		SCB123	Physical Science Applications
Course st	ructure - Major in Biochemistry	SCB222	Exploration of the Universe
Year 1, Se	emester 1	Year 2, Se	emester 1
SCB110	Science Concepts and Global Systems	LQB381	Biochemistry: Structure and Function
SCB111	Chemistry 1	LQB383	Molecular and Cellular Regulation
SCB112	Cellular Basis of Life		· ·
	Plus either:	Year 2, Se	
MAB101	Statistical Data Analysis 1	LQB483	Molecular Biology Techniques
	Or	LQB484	Introduction to Genomics and Bioinformatics
MAB105	Preparatory Mathematics		Science Elective (See list)
Year 1, Se	emester 2		Science Elective (See list)
SCB120	Plant and Animal Physiology	MDB454	Science, Technology and Society
SCB121	Chemistry 2	Year 3, Se	emester 1
SCB122	Cell and Molecular Biology	LQB582	Biomedical Research Technologies
SCB123	Physical Science Applications	LQB583	Genetic Research Technology
SCB222	Exploration of the Universe	LQB584	Medical Cell Biology
	·	LQB585	Plant Genetic Manipulation
Year 2, Se		Course of	ructure - Major in Chemistry
LQB381	Biochemistry: Structure and Function	Course structure - Major in Chemistry	
LQB383	Molecular and Cellular Regulation	Year 1, Se	emester 1
		SCB110	Science Concepts and Global Systems

	FACULTY OF SCIENC	E AND	TECHNOLOGY
SCB111	Chemistry 1	NQB321	Ecology
SCB112	Cellular Basis of Life	NQB322	Invertebrate Biology
	Plus either:	V 0 C-	
MAB101	Statistical Data Analysis 1	Year 2, Se	
	Or	MDB454	Science, Technology and Society
MAB105	Preparatory Mathematics	NQB421 NQB622	Experimental Design
Year 1, Semester 2		NQD022	Conservation Biology Plus either
MAB120	Algebra and Calculus	SCB122	Cell and Molecular Biology
SCB121	Chemistry 2		Or
SCB123	Physical Science Applications	SCB123	Physical Science Applications
SCB131	Experimental Chemistry		Science Elective (See list)
SCB222	Exploration of the Universe		,
		Year 3, Se	
Year 2, Se		NQB502	Field Methods in Natural Resource Sciences
PQB312	Analytical Chemistry For Scientists and Technologists	NQB521	Population Genetics and Molecular Ecology
PQB331	Structure and Bonding	NQB523	Population Management
			Science Elective (See list)
Year 2, Se		Course st	ructure - Major in Environmental Science
PQB401	Reaction Kinetics, Thermodynamics and Mechanisms	Year 1, Se	emester 1
PQB442	Chemical Spectroscopy	SCB110	Science Concepts and Global Systems
PQB631	Advanced Inorganic Chemistry	SCB111	Chemistry 1
	Science Elective (See list)	SCB112	Cellular Basis of Life
MDB454	Science, Technology and Society		Plus either:
Year 3, Se	emester 1	MAB101	Statistical Data Analysis 1
PQB502	Advanced Physical Chemistry		Or
PQB513	Instrumental Analysis	MAB105	Preparatory Mathematics
PQB531	Organic Mechanisms and Synthesis	Year 1, Semester 2	
	Science Elective (See list)	NQB201	Planet Earth
Course structure - Major in Ecology		NQB202	History of Life on Earth
Oourse st	ructure - major in Ecology	SCB120	Plant and Animal Physiology
Year 1, Se	emester 1	SCB123	Physical Science Applications
SCB110	Science Concepts and Global Systems	SCB222	Exploration of the Universe
SCB111	Chemistry 1		·
SCB112	Cellular Basis of Life	Year 2, Se	
	Plus either	NQB302	Earth Surface Systems
MAB101	Statistical Data Analysis 1	NQB321	Ecology
	Or	Year 2, Se	emester 2
MAB105	Preparatory Mathematics	NQB403	Soils and the Environment
Year 1, Se	emester 2	NQB421	Experimental Design
NQB201	Planet Earth	NQB601	Sustainable Environmental Management
NQB202	History of Life on Earth		Science Elective (See list)
NQB422	Genetics and Evolution	MDB454	Science, Technology and Society
SCB120	Plant and Animal Physiology	Year 3, Se	emester 1
		1 341 0, 06	ATTOOLOT 1

Year 2, Semester 1

Exploration of the Universe

SCB222

NQB501

NQB502

Environmental Modelling

Field Methods in Natural Resource Sciences

FACULTY OF SCIENCE AND TECHNOLOGY NQB503 Spatial Analysis of Environmental Systems MAB220 Computational Mathematics 1 Science Elective (See list) **PQB250** Mechanics and Electromagnetism SCB112 Cellular Basis of Life Course structure - Major in Geoscience Year 2, Semester 1 Year 1, Semester 1 MAB311 Advanced Calculus SCB110 Science Concepts and Global Systems **MAB315** Operations Research 2 SCB111 Chemistry 1 SCB112 Cellular Basis of Life Year 2, Semester 2 Plus either: **MAB625** Operations Research 3B Statistical Data Analysis 1 MDB454 MAB101 Science, Technology and Society PQB251 Waves and Optics MAB105 Plus either **Preparatory Mathematics** Applied Statistics 2 MAB414 Year 1, Semester 2 NQB201 Planet Earth MAB422 Mathematical Modelling NQB202 History of Life on Earth Plus ONE unit from the following: SCB120 Plant and Animal Physiology **MAB313** Mathematics of Finance SCB123 **Physical Science Applications** MAB413 **Differential Equations** SCB222 Exploration of the Universe **MAB414** Applied Statistics 2 Year 2, Semester 1 MAB422 Mathematical Modelling **NQB311** Mineralogy MAB461 **Discrete Mathematics NQB314** Sedimentary Geology **MAB480** Introduction to Scientific Computation Year 2, Semester 2 Year 3, Semester 1 NQB411 Petrology of Igneous and Metamorphic Rocks Select THREE units from the following: NQB412 Structural Geology and Field Methods MAB521 Applied Mathematics 3 **NQB615** Geochemistry MAB525 Operations Research 3A Science Elective (See list) **MAB533** Statistical Techniques MDB454 Science, Technology and Society **Advanced Mathematical Modelling** MAB672 Plus Year 3, Semester 1 **PQB350** Thermodynamics of Solids and Gases Field Methods in Natural Resource Sciences NQB502 WITH GENERAL SCIENCE AS A SECOND TEACHING NQB503 Spatial Analysis of Environmental Systems **AREA** NQB513 Geophysics Science Elective (See list) Year 1, Semester 1 MAB101 Statistical Data Analysis 1 Course structure - Major in Mathematics (WITH Maths C from Senior) MAB121 Calculus and Differential Equations SCB110 Science Concepts and Global Systems WITH PHYSICS AS A SECOND TEACHING AREA SCB111 Chemistry 1 Year 1, Semester 1 Year 1, Semester 2 MAB101 Statistical Data Analysis 1 MAB122 Algebra and Analytic Geometry MAB121 Calculus and Differential Equations MAB210 Statistical Modelling 1 SCB110 Science Concepts and Global Systems MAB220 Computational Mathematics 1 SCB111 Chemistry 1 Cellular Basis of Life

Year 1, Semester 2

Algebra and Analytic Geometry

Statistical Modelling 1

MAB122

MAB210

SCB112

SCB222

MAB311

Year 2, Semester 1

Exploration of the Universe

Advanced Calculus

MAB315	Operations Research 2		Plus either
Year 2, Se	omastar 2	MAB414	Applied Statistics 2
MAB625	Operations Research 3B		Or
MDB454	Science, Technology and Society	MAB422	Mathematical Modelling
IVIDD404	Science Elective (See list)	MDB454	Science, Technology and Society
	Plus either	PQB251	Waves and Optics
MADAAA			Plus select ONE unit from the following:
MAB414	Applied Statistics 2	MAB313	Mathematics of Finance
MADAGG	Or Methometical Medalling	MAB413	Differential Equations
MAB422	Mathematical Modelling	MAB414	Applied Statistics 2
MAB313	Plus ONE unit from the following: Mathematics of Finance	MAB422	Mathematical Modelling
MAB413		MAB461	Discrete Mathematics
MAB414	Differential Equations Applied Statistics 2	MAB480	Introduction to Scientific Computation
MAB422	Mathematical Modelling	Year 3, Se	amostor 1
MAB461	Discrete Mathematics	1 ear 3, 3e	Select THREE units from the following:
MAB480	Introduction to Scientific Computation	MAB521	Applied Mathematics 3
MAD400	introduction to Scientific Computation	MAB525	Operations Research 3A
Year 3, Se	emester 1	MAB533	Statistical Techniques
	Select THREE units from the following:	MAB672	Advanced Mathematical Modelling
MAB521	Applied Mathematics 3	IVIADO12	Plus
MAB525	Operations Research 3A	PQB350	Thermodynamics of Solids and Gases
MAB533	Statistical Techniques	1 QD330	memodynamics of Johns and Jases
MAB672	Advanced Mathematical Modelling		NERAL SCIENCE AS A SECOND TEACHING
	Plus	AREA	
Science Elective (See list) Year 1, Semester 1			
	Science Elective (See list)	Year 1, Se	emester 1
	ructure - Major in Mathematics (WITHOUT	Year 1, Se MAB101	emester 1 Statistical Data Analysis 1
Course st Maths C)	, ,		
Maths C)	ructure - Major in Mathematics (WITHOUT	MAB101	Statistical Data Analysis 1
Maths C)	, ,	MAB101 MAB120	Statistical Data Analysis 1 Algebra and Calculus
Maths C) WITH PHY Year 1, Se	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1	MAB101 MAB120 SCB110 SCB111	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1
WITH PHY Year 1, Se MAB101	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1	MAB101 MAB120 SCB110 SCB111 Year 1, Se	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2
WITH PHY Year 1, Se MAB101 MAB120	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations
WITH PHY Year 1, Se MAB101 MAB120 SCB110	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry
WITH PHY Year 1, Se MAB101 MAB120	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1
WITH PHY Year 1, Se MAB101 MAB120 SCB110 SCB111	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1
WITH PHY Year 1, Se MAB101 MAB120 SCB110	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 SCB222	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Exploration of the Universe
Maths C) WITH PHY Year 1, Se MAB101 MAB120 SCB110 SCB111 Year 1, Se	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 SCB222 Year 2, Se	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Exploration of the Universe
WITH PHY Year 1, Se MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 SCB222 Year 2, Se MAB311	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Exploration of the Universe emester 1 Advanced Calculus
Maths C) WITH PHY Year 1, Se MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 SCB222 Year 2, Se	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Exploration of the Universe
Maths C) WITH PHY Year 1, Se MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 SCB222 Year 2, Se MAB311	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Exploration of the Universe emester 1 Advanced Calculus Operations Research 2
Maths C) WITH PHY Year 1, Se MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 PQB250	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Mechanics and Electromagnetism	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 SCB222 Year 2, Se MAB311 MAB315	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Exploration of the Universe emester 1 Advanced Calculus Operations Research 2
Maths C) WITH PHY Year 1, Se MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 PQB250 Year 2, Se	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Mechanics and Electromagnetism emester 1	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 SCB222 Year 2, Se MAB311 MAB315 Year 2, Se	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Exploration of the Universe emester 1 Advanced Calculus Operations Research 2 emester 2
Maths C) WITH PHY Year 1, Se MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 PQB250 Year 2, Se MAB311	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Mechanics and Electromagnetism emester 1 Advanced Calculus	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 SCB222 Year 2, Se MAB311 MAB315 Year 2, Se	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Exploration of the Universe emester 1 Advanced Calculus Operations Research 2 emester 2 Operations Research 3B
Maths C) WITH PHY Year 1, Se MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 PQB250 Year 2, Se	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Mechanics and Electromagnetism emester 1	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 SCB222 Year 2, Se MAB311 MAB315 Year 2, Se MAB625	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Exploration of the Universe emester 1 Advanced Calculus Operations Research 2 emester 2 Operations Research 3B Plus either
Maths C) WITH PHY Year 1, Se MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 PQB250 Year 2, Se MAB311	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Mechanics and Electromagnetism emester 1 Advanced Calculus Operations Research 2	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 SCB222 Year 2, Se MAB311 MAB315 Year 2, Se MAB625	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Exploration of the Universe emester 1 Advanced Calculus Operations Research 2 emester 2 Operations Research 3B Plus either Applied Statistics 2
Maths C) WITH PHY Year 1, Se MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 PQB250 Year 2, Se MAB311 MAB315	ructure - Major in Mathematics (WITHOUT YSICS AS A SECOND TEACHING AREA emester 1 Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Mechanics and Electromagnetism emester 1 Advanced Calculus Operations Research 2	MAB101 MAB120 SCB110 SCB111 Year 1, Se MAB121 MAB122 MAB210 MAB220 SCB222 Year 2, Se MAB311 MAB315 Year 2, Se MAB625	Statistical Data Analysis 1 Algebra and Calculus Science Concepts and Global Systems Chemistry 1 emester 2 Calculus and Differential Equations Algebra and Analytic Geometry Statistical Modelling 1 Computational Mathematics 1 Exploration of the Universe emester 1 Advanced Calculus Operations Research 2 emester 2 Operations Research 3B Plus either Applied Statistics 2 Or

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
	Science Elective (See list)		Either
	Plus select ONE unit from the following:	LQB582	Biomedical Research Technologies
MAB313	Mathematics of Finance		Or
MAB413	Differential Equations	LQB583	Genetic Research Technology
MAB414	Applied Statistics 2		Science Elective (See list)
MAB422	Mathematical Modelling	C	· ·
MAB461	Discrete Mathematics	Senior)	ructure - Major in Physics (WITH Maths C fron
MAB480	Introduction to Scientific Computation	C 00.,	
			NERAL SCIENCE AS A SECOND TEACHING
Year 3, Se		AREA	
	Select THREE units from the following:	Year 1, Se	emester 1
MAB521	Applied Mathematics 3	MAB121	Calculus and Differential Equations
MAB525	Operations Research 3A	SCB110	Science Concepts and Global Systems
MAB533	Statistical Techniques	SCB111	Chemistry 1
MAB672	Advanced Mathematical Modelling	SCB111	Cellular Basis of Life
	Plus	OODTIZ	Octidial Basis of Elic
	Science Elective (See list)	Year 1, Se	emester 2
Course st	ructure - Major in Microbiology	MAB122	Algebra and Analytic Geometry
		MAB220	Computational Mathematics 1
Year 1, Se	emester 1	PQB250	Mechanics and Electromagnetism
SCB110	Science Concepts and Global Systems	PQB251	Waves and Optics
SCB111	Chemistry 1	SCB222	Exploration of the Universe
SCB112	Cellular Basis of Life	Voor 2 Sc	omenter 1
	Plus either:	Year 2, Se	Advanced Calculus
MAB101	Statistical Data Analysis 1		
	Or	PQB350	Thermodynamics of Solids and Gases
MAB105	Preparatory Mathematics	Year 2, Se	emester 2
Year 1, Se	omactar 2	MDB454	Science, Technology and Society
SCB120	Plant and Animal Physiology	PQB450	Energy, Fields and Radiation
SCB120 SCB121	Chemistry 2	PQB451	Electronics and Instrumentation
	·	PQB661	Lasers and Photonics
SCB122 SCB123	Cell and Molecular Biology		Science Elective (see list)
	Physical Science Applications	V22# 2 C	omanta u 1
SCB222	Exploration of the Universe	Year 3, Se	
Year 2, Se	emester 1	PQB550	Quantum and Condensed Matter Physics
LQB381	Biochemistry: Structure and Function	PQB551	Physical Analytical Techniques
LQB386	Microbial Structure and Function	PQB651	Experimental Physics
V0 0			Science Elective (see list)
Year 2, Se			
LQB483	Molecular Biology Techniques	WITH MA	THEMATICS AS A SECOND TEACHING AREA
LQB486	Clinical Microbiology 1	Year 1, Se	emester 1
LQB687	Applied Microbiology 2: Food and Quality Assurance	MAB121	Calculus and Differential Equations
MDB454	Science, Technology and Society	SCB110	Science Concepts and Global Systems
	Science Elective (See list)	SCB110	Chemistry 1
	· ·	SCB111	Cellular Basis of Life
Year 3, Se		000112	Condidi Dadio of Life
LQB586	Clinical Microbiology 2	Year 1, Se	emester 2
LQB587	Applied Microbiology 1: Water, Air and Soil	MAB122	Algebra and Analytic Geometry

	FACULTY OF SCIENC	E AND) TECHNOLOGY
MAB220	Computational Mathematics 1	Year 2, Se	emester 2
PQB250	Mechanics and Electromagnetism	MDB454	Science, Technology and Society
PQB251	Waves and Optics	PQB450	Energy, Fields and Radiation
	Plus either	PQB451	Electronics and Instrumentation
MAB101	Statistical Data Analysis 1	PQB661	Lasers and Photonics
	Or		Science Elective (See list)
MAB210	Statistical Modelling 1		<u> </u>
Year 2, Se	emester 1	Year 3, Se	
MAB311	Advanced Calculus	PQB550	Quantum and Condensed Matter Physics
PQB350	Thermodynamics of Solids and Gases	PQB551	Physical Analytical Techniques
Year 2, Se	amostor 2	PQB651	Experimental Physics Science Elective (See list)
MDB454	Science, Technology and Society		Science Liective (See list)
PQB450	Energy, Fields and Radiation	\A(I T B 4 A	TUENATION AS A SECOND TEACHING AREA
PQB451	Electronics and Instrumentation	WITH MA	THEMATICS AS A SECOND TEACHING AREA
PQB661	Lasers and Photonics	Year 1, Se	emester 1
. 22001	Plus select ONE unit from the following:	MAB120	Algebra and Calculus
MAB210	Statistical Modelling 1	SCB110	Science Concepts and Global Systems
MAB313	Mathematics of Finance	SCB111	Chemistry 1
MAB413	Differential Equations	SCB112	Cellular Basis of Life
MAB422	Mathematical Modelling	Year 1, Se	omastar 2
MAB480	Introduction to Scientific Computation	MAB121	Calculus and Differential Equations
		MAB121	Algebra and Analytic Geometry
Year 3, Se		MAB220	Computational Mathematics 1
MAB312	Linear Algebra	PQB250	Mechanics and Electromagnetism
PQB550	Quantum and Condensed Matter Physics	PQB251	Waves and Optics
PQB551	Physical Analytical Techniques	1 00001	vvaves and optios
PQB651	Experimental Physics	Year 2, Se	emester 1
Course structure - Major in Physics (WITHOUT Maths C		MAB311	Advanced Calculus
from Senio	or)	PQB350	Thermodynamics of Solids and Gases
WITH GEN	NERAL SCIENCE AS A SECOND TEACHING	Year 2, Se	emester 2
AREA		MDB454	Science, Technology and Society
Year 1, Se	emester 1	PQB450	Energy, Fields and Radiation
MAB120	Algebra and Calculus	PQB451	Electronics and Instrumentation
SCB110	Science Concepts and Global Systems	PQB661	Lasers and Photonics
SCB111	Chemistry 1		Plus select ONE unit from the following:
SCB112	Cellular Basis of Life	MAB210	Statistical Modelling 1
		MAB313	Mathematics of Finance
Year 1, Se		MAB413	Differential Equations
MAB121	Calculus and Differential Equations	MAB422	Mathematical Modelling
MAB122	Algebra and Analytic Geometry	MAB480	Introduction to Scientific Computation
PQB250	Mechanics and Electromagnetism	Year 3, Se	emester 1
PQB251	Waves and Optics	PQB550	Quantum and Condensed Matter Physics
SCB222	Exploration of the Universe	PQB551	Physical Analytical Techniques
Year 2, Se	emester 1	PQB651	Experimental Physics
MAB311	Advanced Calculus	1 90001	Either
PQB350	Thermodynamics of Solids and Gases		2.00

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
MAB101	Statistical Data Analysis 1		
	Or		Prerequisites: Curriculum Studies 1X & 1Y
MAB210	Statistical Modelling 1	MDB010	Biology Curriculum Studies 2
Second Te	eaching Area - General Science		(MDB010 is suitable for students studying Biochemistry, Biotechnology, Ecology, Environmental Science, Microbiology)
SCB120	Plant and Animal Physiology	MDB013	Chemistry Curriculum Studies 2
SCB222	Or Exploration of the Universe		(MDB013 is suitable for students majoring in Biochemistry or Biotechnology – contains more emphasis on chemistry rather than biology)
	Plus	MDB019	Earth Science Curriculum Studies 2
MDB454 Science, Technology and Society In addition, choose 2 units from the Science Electives List			(MDB019 is suitable for students majoring in Environmental Science or Geoscience – contains more emphasis on geology rather than biology)
Science E	ectives	MDB022	Mathematics Curriculum Studies 2
Select TW	O units that you have not already done from the	MDB025	Physics Curriculum Studies 2
following:		MDB028	Science Curriculum Studies 2
Semester 1 Units:			(MDB028 is suitable for students interested in teaching junior science)
NQB302 Earth Surface Systems		List 3: Curriculum Studies 3X & 3Y	
NQB321	Ecology		
NQB322	Invertebrate Biology		Prerequisites: Curriculum Studies 2X & 2Y.
NQB323	Plant Biology		Students undertaking a double Science major
SCB121 Chemistry 2 Semester 2 Units:			will undertake MDB033 as Curriculum Studies 3X, and an education elective as Curriculum Studies 3Y.
NQB201	Planet Earth		Students studying Maths or Physics as a major
NQB201	History of Life on Earth		or minor will take MDB023 as Ćurriculum Studies 3X, and can take MDB033 as their
NQB403	Soils and the Environment		Curriculum Studies 3Y unit.
NQB423	Vertebrate Biology	MDB023	Mathematics Curriculum Studies 3
PQB250	Mechanics and Electromagnetism	MDB033	Science Education Curriculum Studies 3
SCB120	Plant and Animal Physiology		See Education Electives list below for Curriculum Studies 3Y alternatives.
SCB121	Chemistry 2		
SCB122	Cell and Molecular Biology	Education Electives	
SCB123 Physical Science Applications		LIST 4: EDUCATION ELECTIVES	

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

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

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.gut.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 educationeng@gut.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

Dr Perry Hartfield Phone: +61 7 3138 2984 Email: p.hartfield@qut.edu.au

Faculty of Education

Student Affairs

Phone: +61 7 3138 3947 Email: educationeq@qut.edu.au

Discipline Coordinators

Biochemistry

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@gut.edu.au

Chemistry

Dr John McMurtrie Phone: +61 7 3138 1220 Email: j.mcmurtrie@gut.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

Geoscience

Dr Gary Huftile

Phone: +61 7 3138 4470 Email: g.huftile@qut.edu.au

Mathematics

Dr Scott McCue

Phone: +61 7 3138 4295 Email: scott.mccue@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 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)

FACULTY OF SCIENCE AND TECHNOLOGY Please note that successful completion of all LQB381 Biochemistry: Structure and Function other coursework is required before students LQB383 Molecular and Cellular Regulation can commence the final Internship unit EDB025. Microbial Structure and Function **LQB386** Designated Unit: EDB025 Year 2, Semester 2 Course structure - Major in Biochemistry LQB483 Molecular Biology Techniques **LQB484** Introduction to Genomics and Bioinformatics Year 1, Semester 1 Plus select ONE unit from the following: Chemistry 1 LQB481 Biochemical Pathways and Metabolism Cellular Basis of Life **LQB486** Clinical Microbiology 1 Plus either **LQB489** Plant Physiology and Cell Biology Statistical Data Analysis 1 Year 3, Semester 1 **Preparatory Mathematics** LQB582 Biomedical Research Technologies LQB583 Genetic Research Technology Year 1, Semester 2 **LQB584** Medical Cell Biology Plant and Animal Physiology LQB585 Plant Genetic Manipulation Chemistry 2 Cell and Molecular Biology Course structure - Major in Chemistry Year 2, Semester 1 Year 1, Semester 1 Biochemistry: Structure and Function SCB111 Chemistry 1 Molecular and Cellular Regulation **SCB112** Cellular Basis of Life Microbial Structure and Function Plus either MAB101 Statistical Data Analysis 1 Year 2, Semester 2 Biochemical Pathways and Metabolism MAB105 **Preparatory Mathematics** Molecular Biology Techniques Biochemical Research Skills Year 1, Semester 2 MAB120 Algebra and Calculus **SCB121** Chemistry 2 **Functional Biochemistry**

Year 3, Semester 1 LQB581

SCB111

SCB112

MAB101

MAB105

SCB120

SCB121

SCB122

LQB381

LQB383

LQB386

LQB481

LQB483

LQB681

SCB122

Or

LQB582 Biomedical Research Technologies

LQB583 Genetic Research Technology

Science Elective

Course structure - Major in Biotechnology

Course structure - major in Diotectificiogy		
	Year 1, Sei	mester 1
	SCB111	Chemistry 1
	SCB112	Cellular Basis of Life
		Plus either
	MAB101	Statistical Data Analysis 1
		Or
	MAB105	Preparatory Mathematics
	Year 1, Sei	mester 2
	SCB120	Plant and Animal Physiology
	SCB121	Chemistry 2

Year 2, Semester 1		

Cell and Molecular Biology

SCB131	Experimental Chemistry
Year 2, Se	emester 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

Advanced Physical Chemistry **PQB502 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 SciencesNQB521 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

000110	0: 0 1 101110 1		
SCB110	Science Concepts and Global Systems	Year 2, Se	
Year 1, Se	emester 2	MAB625	Operations Research 3B
MAB122	Algebra and Analytic Geometry		Plus either
MAB210	Statistical Modelling 1	MAB414	Applied Statistics 2
SCB111	Chemistry 1		Or
	·	MAB422	Mathematical Modelling
Year 2, Se	emester 1		Plus select ONE unit from the following:
MAB220	Computational Mathematics 1	MAB313	Mathematics of Finance
MAB311	Advanced Calculus	MAB413	Differential Equations
MAB315	Operations Research 2	MAB414	Applied Statistics 2
Year 2, Se	amester 2	MAB422	Mathematical Modelling
MAB625	Operations Research 3B	MAB461	Discrete Mathematics
WAD025	Plus either	MAB480	Introduction to Scientific Computation
MAB414	Applied Statistics 2	Year 3, Se	emester 1
	Or		Select ONE unit from the following:
MAB422	Mathematical Modelling	SCB111	Chemistry 1
	Plus select ONE unit from the following:	SCB111	Cellular Basis of Life
MAB313	Mathematics of Finance	300112	Plus select THREE units from the following:
MAB413	Differential Equations	MAB521	Applied Mathematics 3
MAB414	Applied Statistics 2	MAB525	• •
MAB422	Mathematical Modelling		Operations Research 3A
MAB461	Discrete Mathematics	MAB533	Statistical Techniques
MAB480	Introduction to Scientific Computation	MAB672	Advanced Mathematical Modelling
	·	Course st	ructure - Major in Microbiology
Year 3, Se		Year 1, Se	emester 1
SCB112	Cellular Basis of Life	SCB111	Chemistry 1
	Plus select THREE units from the following:	SCB112	Cellular Basis of Life
MAB521	Applied Mathematics 3	002112	Plus either
MAB525	Operations Research 3A	MAB101	Statistical Data Analysis 1
MAB533	Statistical Techniques	WIN CE TO T	Or
MAB672	Advanced Mathematical Modelling	MAB105	Preparatory Mathematics
	ructure - Major in Mathematics (WITHOUT		· · · · · · · · · · · · · · · · · · ·
Maths C)		Year 1, Se	
Year 1, Se	emester 1	SCB120	Plant and Animal Physiology
MAB101	Statistical Data Analysis 1	SCB121	Chemistry 2
MAB120	Algebra and Calculus	SCB122	Cell and Molecular Biology
SCB110	Science Concepts and Global Systems	Year 2, Se	emester 1
		LQB381	Biochemistry: Structure and Function
Year 1, Se		LQB383	Molecular and Cellular Regulation
MAB121	Calculus and Differential Equations	LQB386	Microbial Structure and Function
MAB122	Algebra and Analytic Geometry		
MAB210	Statistical Modelling 1	Year 2, Se	
Vear 2 Se	amester 1	LQB483	Molecular Biology Techniques
Year 2, Semester 1 MAB220 Computational Mathematics 1		LQB486	Clinical Microbiology 1
MAB311	Advanced Calculus	LQB687	Applied Microbiology 2: Food and Quality
			Assurance
MAB315	Operations Research 2	Voor 2 Sc	emester 1
		rear 3, 36	aniester i

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

in Semester 2

Year 1, Se	emester 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

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:
Statistical Data Analysis 1

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-lyer 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.gut.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

Compu	lsory	Units

INB311 Enterprise SystemsINB340 Database DesignINB220 Business Analysis

IS Elective Units

I١	NB312	Enterprise Systems Applications
I١	NB342	Enterprise Data Mining and Data Analysis
I١	NB313	Electronic Commerce Site Development
I١	NB322	Information Systems Consulting
I١	NB320	Business Process Modelling
I١	NB124	Information Systems Development
I١	NB221	Technology Management

Network Systems Major

Compul	sory Units
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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	

IX26 - Bachelor of Applied Science/Bachelor of Information Technology Course Structure 2009

Mathematics for Computer Graphics

MAB281 is only to be used as a prereq for

Course Structure 2009

INB381

MAB281

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
	0-: 14-:

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 Maior 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.gut.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

Overview	for students who commenced in 2008	
Year 1, Se	emester 1	Year
INB103	Industry Insights	KKB ²
INB250	Foundations of Computer Science	KIB1
KKB101	Creative Industries: People and Practices	Year
SELECT	A Creative Industries Discipline Unit	KKB ²
	·	KIB1
Year 1, Se INB210	Databases	Year
INB251	Networks	SELE
KKB102	Creative Industries: Making Connections	KIB1
SELECT	A Creative Industries Discipline Unit	Vaar
	·	Year SELE
Year 2, Se		KIB1
INB104	Building IT Systems	KIDT
	Choose one unit from: Intermediate Level Elective list. This choice will replace ITB008 from 2009 course summary.	Year KIB2
SELECT	A Creative Industries Discipline Unit	SELE
SELECT	A Creative Industries Discipline Unit	KIB2
Year 2, Se	amastar 2	KKB
INB270	Programming	
INB271	The Web	Year
SELECT	A Creative Industries Discipline Unit	KIB2
SELECT	A Creative Industries Discipline Unit	SELE
	·	KIB2
Year 3, Se		KVB2
	IT Major Unit	Year
051 507	IT Major Unit	KIB3
SELECT	A Creative Industries Discipline Unit	SELE
SELECT	A Creative Industries Discipline Unit	KIB3
Year 3, Se	emester 2	KIB3
INB301	The Business of IT	Year
	IT Major Unit	KIB3
SELECT	A Creative Industries Discipline Unit	SELE
SELECT	A Creative Industries Discipline Unit	KIB3
Year 4, Se	emester 1	KIB3
INB302	IT Capstone Project	
	IT Major Unit	Interd comr
SELECT	A Creative Industries Discipline Unit	•
SELECT	A Creative Industries Unit Option	Year
Voor 4 Sc	amostor 2	KKB ²
Year 4, Se	IT Major Unit	SELE
	IT Major Unit	KPB ²
SELECT	A Creative Industries Discipline Unit	KVB ²
SELECT	A Creative Industries Unit Option	
	- I am I man a man a phon	Year

Communication Design course structure for students

who commenced in 2008

Year 1, Se	emester 1
KKB101	Creative Industries: People and Practices
KIB101	Visual Communication
Year 1, Se	emester 2
KKB102	Creative Industries: Making Connections
KIB102	Visual Interactions
Year 2, Se	emester 1
SELECT	A Creative Industries Unit Option
KIB103	Introduction to Web Design and Development
Year 2, Se	emester 2
SELECT	A Creative Industries Unit Option
KIB104	Digital Media
Year 3, Se	emester 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, Se	emester 2
KIB216	Advanced Web Design
SELECT	Either KIB205 or KVB204:
KIB205	Programming for Visual Designers and Artists
KVB204	Graphic Design
Year 4, Se	emester 1
KIB315	Contemporary Issues in Digital Media
SELECT	Either KIB309 or KIB335:
KIB309	Embodied Interactions
KIB335	Typography and Illustration
Year 4, Se	emester 2
KIB322	Design Project
SELECT	Either KIB314 or KKB338:
KIB314	Tangible Media
KIB338	Print Media
	olinary course structure for students who ed in 2008
Year 1, Se	emester 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

FACULTY OF SCIENCE AND TECHNOLOGY KKB102 Creative Industries: Making Connections **KMB111** Music Production 2 KCB103 Strategic Speech Communication **KMB121** Music Performance 2 Year 2, Semester 1 Year 3, Semester 1 KKB221 Approaching Interdisciplinarity **SELECT** A Music Unit Option (List A) **SELECT** KMB214-1 Music and Sound: Principal Study A Creative Industries co-major: First Unit Year 2, Semester 2 Year 3, Semester 2 KKB222 Interdisciplinarity in Practice **SELECT** A Music Unit Option (List B) **SELECT** Creative Industries co-major: Second Unit KMB214-2 Music and Sound: Principal Study A Year 3, Semester 1 Year 4, Semester 1 **SELECT** Creative Industries co-major: Third Unit **SELECT** A Creative Industries Unit Option **SELECT** Creative Industries co-major: Fourth Unit A Music Unit Option (List A) SELECT Year 3, Semester 2 Year 4, Semester 2 SELECT Creative Industries co-major: Fifth Unit SELECT A Creative Industries Unit Option **SELECT** Creative Industries co-major: Sixth Unit **SELECT** A Music Unit Option (List B) Year 4, Semester 1 LIST A: Music Unit Options **SELECT** Transitions to New Professional Environment **KMB003** Sex Drugs Rock 'N' Roll Unit **KMB004** World Music **SELECT** Creative Industries co-major: Seventh Unit **KMB108** Sound Recording and Acoustics KMB113 Multi-Instrumental Music A Year 4, Semester 2 **KMB119** Music and Sound Production 1 **SELECT** Transitions to New Professional Environment Unit KMB122 Music and Sound Concepts 1 Creative Industries co-major: Eighth Unit **SELECT** KMB200 Music Scenes and Subcultures KMB209 Conducting Music course structure for students who commenced in 2008 **KMB213** Multi-Instrumental Music B Note: KMB206 and KMB207 are permitted to Year 1, Semester 1 count as List A Music Unit Options if completed in 2010 or earlier. KKB101 Creative Industries: People and Practices **SELECT** Either KMB003 or KMB005-1: LIST B: Music Unit Options KMB003 Sex Drugs Rock 'N' Roll KMB002 Music and Spirituality KMB005-1 Group Music **KMB107** Sound, Image, Text **KMB108** Sound Recording and Acoustics Year 1, Semester 2 KMB129 Music and Sound Production 2 KKB102 Creative Industries: Making Connections **KMB132** Music and Sound Concepts 2 **KMB105** Music and Sound Technology KMB212 Arranging **SELECT** KMB005-2 if KMB005-1 was completed in semester 1: KMB252 Multi-Platform Sound Design KMB005-2 Group Music KMB301 The Music Industry Note: KMB106, KMB205 and KMB208 are Year 2, Semester 1 permitted to count as List B Music Unit Options if completed in 2010 or earlier. KMB130 Core Musicianship 1 **SELECT** Either KMB110 or KMB120:

Sound Design course structure for students who commenced in 2008

Year 1, Semester 1

KKB101	Creative	industries:	People	and	Practices
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KMB105 Music and Sound Technology

Either KMB111 or KMB121:

Music Production 1

Music Performance 1

Core Musicianship 2

KMB110

KMB120

KMB131

SELECT

Year 2, Semester 2

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

Exploring New Media Worlds **KCB207**

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

Visual Communication KIB101

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
IZNADA OO	Carrad Dagandinas and

KMB108 Sound Recording and AcousticsKMB129 Music and Sound Production 2KMB132 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	KVB102	Modernism
AMB320	Advertising Management	KVB103	Australian Art
AMB330	Advertising Planning Portfolio	KVB108	Contemporary Asian Visual Culture
BSB126	Marketing	KVB211	Post 1945 Art
	Note: AMB221 and AMB339 are permitted to count towards the completion of this unit set if	KVB212	Australian Art, Architecture and Design
	count towards the completion of this unit set if completed in 2009 or earlier.	KVB304	Contemporary Art Issues
	<u> </u>	KVB306	Video Art and Culture
Animation			

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

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	KDB225	Music Theatre Skills
KDB105	Architecture of the Body	KTB101	20th Century Performance
KDB106	Dance Analysis	KTB103	Performing Skills 1: Character and Scene
KDB107	Choreographic Studies 1	KTB104	Performance Innovation
KDB108	World Dance	KTB106	Performing Skills 2: Style and Form
KDB109	Funk, Tap and all that Jazz	KTB204	Understanding Performance
KDB110	Deconstructing Dance in History	KTB207	Staging Australia
KDB204	Australian Dance	KTB210	Creative Industries Management
KDB205	Dance in Education	KTB211	Creative Industries Events and Festivals
KDB225	Music Theatre Skills	KTB305	The Entrepreneurial Artist
	*Please note that the Dance Studies major in the Bachelor of Creative Industries is NOT a	KTB306	Directing for Performance Events and Festivals

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.

pathway to secondary dance teaching

Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this second major.

KCB101	Introduction to Media and Communication:
	T .

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

Consumption Matters: Consumer Cultures and KCB203

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 performancemaking 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.

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 Introduction to Entertainment **KXB101**

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

AMB251

Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this second major.

Innovation and Brand Management

BSB115 Management BSB126 Marketing

MGB200 Leading Organisations

MGB223 Entrepreneurship and Innovation

MGB324	Managing Business Growth		knowledge required as a prerequisite to
SELECT	Two units from the Advanced AMB Unit Options list OR two units from the Advanced MGB Unit Options list	KPB101	undertaking this second major. Introduction to Film, TV and New Media Production
	Advanced AMB Unit Options (AMB240 is mandatory):	KPB104	Film and Television Production Resource Management
AMB201	Marketing and Audience Research	KPB105	Narrative Production
MB240	Marketing Planning and Management	KPB109	Film and TV History
	Advanced MGB Unit Options (MGB310 is	KPB110	The Movie, TV & New Media Business
	mandatory):	KPB112	TV and Film Genres
1GB210	Managing Operations	KPB113	TV and Film Text Analysis
/IGB225	Intercultural Communication and Negotiation Skills	KPB202	Film and Television Business Skills: Entrepreneurship and Investment
/IGB310	Sustainability in A Changing Environment	KPB205	Documentary Theory and Practice
	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.	KPB206	International Cinema
		KPB212	Australian Film and TV
		KPB303	Critical Thinking About Television
		KPB313	How to be a Producer^
ashion			* Please Note: KPB203 is permitted to co towards this unit set.
asiliuli	Description: This second major has been		^KPB313 will be offered from 2012.

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

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/2majo rmin/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/2majo rmin/majors/

Integrated	Marketing	Communication
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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.gut.edu.au/study/current/2majo rmin/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

FACULTY OF SCIENCE AND TECHNOLOGY **KWB308** Wonderlands: Literature and Culture in the **INB272** Interaction Design 19th Century Choose 4 of the following INB 300-level units KWB309 Popular Fictions, Popular Culture **INB313** Electronic Commerce Site Development * KWB210 will be offered for the first time in **INB322** Information Systems Consulting semester 1 2012. **INB340** Database Design Marketing **INB345** Mobile Devices AMB200 Consumer Behaviour **INB346** Enterprise 2.0 **AMB201** Marketing and Audience Research **INB347** Web 2.0 Applications AMB202 **Integrated Marketing Communication INB370** Software Development **AMB240** Marketing Planning and Management **INB373** Web Application Development **AMB335** E-marketing Strategies **Public Relations AMB336** International Marketing **AMB201** Marketing and Audience Research Services Marketing **AMB340** AMB202 Integrated Marketing Communication BSB126 Marketing **AMB263** Introduction To Public Relations Note: AMB359 is permitted to count towards the completion of this unit set if completed in AMB264 Public Relations Techniques 2009 or earlier. AMB372 **Public Relations Planning** Music **AMB373** Corporate Communication Description: This second major aims to impart **AMB374** Global Public Relations Cases a broad understanding of music practice in **BSB126** Marketing contemporary social, cultural and economic contexts. It aims to provide students with a Note: AMB261, AMB262, AMB379 are combination of practical and theoretical skills to permitted to count towards the completion of support a career in music within administrative, this unit set if completed in 2009 or earlier. business, or organisational areas. **Creative Industries Sub-Majors** Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this second major. Art and Visual Culture (KAV) **KDB225** Music Theatre Skills Instructions: Complete any six of the below units. **KMB003** Sex Drugs Rock 'N' Roll **KVB102** Modernism **KMB004** World Music KVB103 Australian Art **KMB107** Sound, Image, Text **KVB108** Contemporary Asian Visual Culture **KMB119** Music and Sound Production 1 **KVB110** 2D Media and Processes **KMB122** Music and Sound Concepts 1 **KVB111** 3D Media and Processes KMB129 Music and Sound Production 2 **KVB211** Post 1945 Art KMB132 Music and Sound Concepts 2 **KVB304** Contemporary Art Issues KMB200 Music Scenes and Subcultures **KVB306** Video Art and Culture KMB301 The Music Industry Please note: KKB345 is permitted to count Art History, Architecture and Design (KAA) towards this unit set if completed in 2010 or earlier. 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)

Online Environments

INB104

INB122

INB210

INB270

INB271

Assumed Knowledge: There is no specific prior

Choose 3 of the following units (INB122 and

knowledge required as a prerequisite to

undertaking this second major.

INB210 cannot both be taken)

Organisational Databases

Building IT Systems

Databases

The Web

Programming

	FACULIT OF SCIENC	EAND	TECHNOLOGY
	Instructions: Complete any six of the below units.	KDB106	Dance Analysis
KCB101	Introduction to Media and Communication:	KDB108	World Dance
KCD101	Texts	KDB109	Funk, Tap and all that Jazz
KCB103	Strategic Speech Communication	KDB110	Deconstructing Dance in History
KCB104	Media and Communications: Industries	KDB204	Australian Dance
KCB105	Media Myth Busting 2	Digital Me	dia (KDM)
KCB302	Political Communication	2 · g · to · · · · · ·	Instructions: Complete any six of the below
KKB004	Indigenous Creative Industries		units.
KWB102	Media Writing	KCB102	Media Myth Busting 1
KWB106	Corporate Writing and Editing	KCB203	Consumption Matters: Consumer Cultures and Identity
Computati	onal Arts (KKC)	KCB206	New Media: Internet, Self and Beyond
	Instructions: Complete any six of the below	KCB207	Exploring New Media Worlds
KIDAOA	units.	KIB101	Visual Communication
KIB101	Visual Communication	KIB103	Introduction to Web Design and Development
KIB103	Introduction to Web Design and Development	KPB110	The Movie, TV & New Media Business
KIB105	Animation and Motion Graphics	KVB306	Video Art and Culture
KMB107	Sound, Image, Text	Eachion /	Art and Communication (KFA)
KMB129	Music and Sound Production 2	i asilioli, F	Instructions: Complete any six of the below
KVB211	Post 1945 Art		units.
	Note: ITB001, ITB003, KKB210, KKB211 and KVB202 are permitted to count towards this sub-major.	KCB203	Consumption Matters: Consumer Cultures and Identity
Cractive	nd Drofossianal Muiting (ICM)	KFB103	Introduction to Fashion
Creative a	nd Professional Writing (KCW) Instructions: Complete any six of the below	KFB205	Fashion and Style Journalism
	units.	KFB206	Fashion and Modernity
KWB101	Introduction to Creative Writing	KVB104	Photomedia and Artistic Practice
KWB102	Media Writing	KVB108	Contemporary Asian Visual Culture
KWB103	Persuasive Writing	KVB212	Australian Art, Architecture and Design
KWB104	Creative Writing: the Short Story		Note: KFB203 is permitted to count towards this sub-major.
KWB106	Corporate Writing and Editing		tilis sub-major.
KWB107	Creative Non-Fiction	Indigenous	s Studies (KIS)
KWB206	Youth and Children's Writing		Instructions: Complete any six of the below units.
	Note: KWB204 is permitted to count towards this sub-major.	EDB007	Culture Studies: Indigenous Education
-	·	EDB038	Indigenous Australian Culture Studies
Creative Ir	ndustries Management (KCI)	EDB039	Indigenous Politics and Political Culture
	Instructions: Complete any six of the below units.	EDB040	Indigenous Knowledge: Research Ethics and Protocols
BSB115	Management	EDB041	Indigenous Australia: Country, Kin and Culture
BSB126	Marketing	KWB109	Writing Australia
KTB104	Performance Innovation		Note: JSB352, KKB004 and KWB307 are
KTB207	Staging Australia		permitted to count towards this sub-major.
KTB210	Creative Industries Management	Interaction	n Design (KIN)
KTB211	Creative Industries Events and Festivals		Instructions: Complete any six of the below
KTB306	Directing for Performance Events and Festivals		units.
MGB223	Entrepreneurship and Innovation	KIB101	Visual Communication
Dance (KD	DN)	KIB102	Visual Interactions
KDB105	Architecture of the Body	KIB103	Introduction to Web Design and Development
	-	KIB104	Digital Media

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
KIB214	Design for Interactive Media	KTB106	Performing Skills 2: Style and Form
KIB230	Interface and Information Design	KTB204	Understanding Performance
	Note: KIB210 (24 cps) is permitted to count	KTB207	Staging Australia
	towards this sub-major.	KTB209	Applied Performance
Journalism	n (KJO)	Screen St	udies (KSC)
	Instructions: Complete any six of the below units.		Instructions: Complete any six of the below units.
KFB205	Fashion and Style Journalism	KPB109	Film and TV History
KJB101	Digital Journalism	KPB112	TV and Film Genres
KJB120	Newswriting	KPB113	TV and Film Text Analysis
KJB121	Journalistic Inquiry	KPB205	Documentary Theory and Practice
KJB224	Feature Writing	KPB206	International Cinema
KJB239	Journalism Ethics and Issues	KPB212	Australian Film and TV
KJB280	International Journalism		
KJB337	Public Affairs Reporting	Television	
Literary an	nd Cultural Studies (KLC)	KPB101	Introduction to Film, TV and New Media Production
	Instructions: Complete any six of the below units.	KPB104	Film and Television Production Resource Management
KWB103	Persuasive Writing	KPB105	Narrative Production
KWB108	Introduction To Literary Studies	KPB110	The Movie, TV & New Media Business
KWB109	Writing Australia	KPB112	TV and Film Genres
KWB206	Youth and Children's Writing	KPB303	Critical Thinking About Television
KWB207	Great Books: Creative Writing Classics	IMPORTA	NIT
KWB208	Modern Times (Literature and Culture in the 20th Century)	IMPORTA	Where it allows, students can take a maximum of 8 units outside the Creative Industries
KWB209	Shakespeare, Then and Now		Faculty (depending on the course the student
KWB308	Wonderlands: Literature and Culture in the 19th Century		is currently enrolled in). The following submajors/minors are offered through the Faculty of Business. Students may take only
KWB309	Popular Fictions, Popular Culture		ONE of these as a complete submajor. For information about availability of non-Creative
Music and	Sound Studies (KMS)		Industries Units, contact the Course Coordinator
	Instructions: Complete any six of the below units.	Advertising	a (KAD)
KMB003	Sex Drugs Rock 'N' Roll	AMB200	Consumer Behaviour
KMB004	World Music	AMB220	Advertising Theory and Practice
KMB107	Sound, Image, Text	AMB318	Advertising Copywriting
KMB119	Music and Sound Production 1	AMB319	Media Planning
KMB122	Music and Sound Concepts 1	AMB320	· ·
KMB129	Music and Sound Production 2		Advertising Management
KMB301	The Music Industry	BSB126	Marketing
	Note: KMB002, KMB007, KMB104 and	Entrepren	eurship (KEN)
	KMB204 are permitted to count towards this sub-major.		Instructions: Complete any six of the below units.
Performance Studies (KTP)		AMB251	Innovation and Brand Management
	Instructions: Complete any six of the below	BSB115	Management
I/TD 40.1	units.	BSB126	Marketing
KTB101	20th Century Performance	MGB200	Leading Organisations
KTB102	Process Drama	MGB223	Entrepreneurship and Innovation
KTB103	Performing Skills 1: Character and Scene	MGB324	Managing Business Growth
KTB104	Performance Innovation		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 DesignKVB106 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 ModernismKVB103 Australian ArtKVB211 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

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

opportunity to understand the parameters of

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 DanceKDB225 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.

cultural aria 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

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

> * 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.

Multi-Platform Sound Design

Television

KMB252

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

KKR341

KKB350

Creative Industries Transitions to New Professional Environments Unit Options

A maximum of 48 credit points may be taken from the following units:

Creative Industries Internehin 1

TUINDOTT	oroative inadetiles internelle i
KKB342	Creative Industries Internship 2
KKB345	Creative Industries Project 1
KKB346	Creative Industries Project 2
KKB347	Becoming A Researcher: Understandings, Skills and Practices

* Please note: KKB343 and KKB344 are permitted to count as Transitions to New Professional Environments Unit Options if

Creative Industries International Study Tour

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

Graphical Development Environments for

KKB216

	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 & Tele	evision
1/00/104	

Film & Television		
KPB101	Introduction to Film, TV and New Media Production	
KPB104	B104 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		

	FACULTY OF SCIENCE		
KJB239	Journalism Ethics and Issues	KVB104	Photomedia and Artistic Practice
KJB280	International Journalism	KVB105	Drawing for Design
KJB337	Public Affairs Reporting	KVB106	Drawing for Animation
Madia 9 C	Communication	KVB108	Contemporary Asian Visual Culture
KCB101	Introduction to Media and Communication:	KVB110	2D Media and Processes
KCDIUI	Texts	KVB111	3D Media and Processes
KCB102	Media Myth Busting 1	KVB211	Post 1945 Art
KCB103	Strategic Speech Communication	KVB212	Australian Art, Architecture and Design
KCB104	Media and Communications: Industries	KVB213	Graphic Investigation
KCB105	Media Myth Busting 2	KVB304	Contemporary Art Issues
KCB206	New Media: Internet, Self and Beyond	KVB306	Video Art and Culture
KCB207	Exploring New Media Worlds	KVB307	Theories of Spatial Culture
KCB203	Consumption Matters: Consumer Cultures and Identity	Network S	systems Major
KCB302	Political Communication	Compulso	ry Units
Music & S	Sound	INB350	Internet Protocols and Services
KMB003	Sex Drugs Rock 'N' Roll	INB351	Unix Network Administration
KMB004	World Music	INB352	Network Planning
KMB107	Sound, Image, Text	INB255	Security
KMB119	Music and Sound Production 1	Electives	
KMB122	Music and Sound Concepts 1	INB312	Enterprise Systems Applications
KMB129	Music and Sound Production 2	INB365	Systems Programming
KMB132	Music and Sound Concepts 2	INB353	Wireless and Mobile Networks
KMB200	Music Scenes and Subcultures	INB355	Cryptology and Protocols
KMB252	Multi-Platform Sound Design	INDOO	Cryptology and Frotocols
* Please note: KMB002, KMB007, KMB104, Software Architecture Major			
	* Please note: KMB002, KMB007, KMB104,	Software I	Architecture Major
	KMB105, and KMB108 are permitted to count as Unit Options if completed in 2009 or earlier.	Compulso	•
	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		•
	KMB105, and KMB108 are permitted to count as Unit Options if completed in 2009 or earlier.	Compulso	ry Units Database Design
Performar	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	Compulso INB340	ry Units
	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.	Compulso INB340 INB371 INB372	ry Units Database Design Data Structures and Algorithms
KRB120	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.	Compulso INB340 INB371	ry Units Database Design Data Structures and Algorithms Agile Software Development
KRB120 KRB220	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. Ince Studies Scenography and the Art of Technical Theatre	Compulso INB340 INB371 INB372 Electives	ry Units Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives
KRB120 KRB220 KTB101	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. Ince Studies Scenography and the Art of Technical Theatre The Scenographic Divide	Compulso INB340 INB371 INB372 Electives	ry Units Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives Software Development With Oracle
KRB120 KRB220 KTB101 KTB103	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. Ince Studies Scenography and the Art of Technical Theatre The Scenographic Divide 20th Century Performance	Compulso INB340 INB371 INB372 Electives INB341 INB311	ry Units Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives Software Development With Oracle Enterprise Systems
KRB120 KRB220 KTB101 KTB103 KTB104	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. Ince Studies Scenography and the Art of Technical Theatre The Scenographic Divide 20th Century Performance Performing Skills 1: Character and Scene	Compulso INB340 INB371 INB372 Electives INB341 INB311 INB312	Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives Software Development With Oracle Enterprise Systems Enterprise Systems Applications
KRB120 KRB220 KTB101 KTB103 KTB104 KTB106	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. Ince Studies Scenography and the Art of Technical Theatre The Scenographic Divide 20th Century Performance Performing Skills 1: Character and Scene Performance Innovation	Compulso INB340 INB371 INB372 Electives INB341 INB311 INB312 INB272	ry Units Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives Software Development With Oracle Enterprise Systems Enterprise Systems Applications Interaction Design
KRB120 KRB220 KTB101 KTB103 KTB104 KTB106 KTB204	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. Ince Studies Scenography and the Art of Technical Theatre The Scenographic Divide 20th Century Performance Performing Skills 1: Character and Scene Performance Innovation Performing Skills 2: Style and Form	Compulso INB340 INB371 INB372 Electives INB341 INB311 INB312 INB272 INB313	ry Units Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives Software Development With Oracle Enterprise Systems Enterprise Systems Applications Interaction Design Electronic Commerce Site Development
KRB120 KRB220 KTB101 KTB103 KTB104 KTB106 KTB204 KTB207	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. Ince Studies Scenography and the Art of Technical Theatre The Scenographic Divide 20th Century Performance Performing Skills 1: Character and Scene Performance Innovation Performing Skills 2: Style and Form Understanding Performance	Compulso INB340 INB371 INB372 Electives INB341 INB311 INB312 INB272 INB313 INB322	ry Units Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives Software Development With Oracle Enterprise Systems Enterprise Systems Applications Interaction Design Electronic Commerce Site Development Information Systems Consulting
KRB120 KRB220 KTB101 KTB103 KTB104 KTB106 KTB204 KTB207 KTB210	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. Ince Studies Scenography and the Art of Technical Theatre The Scenographic Divide 20th Century Performance Performing Skills 1: Character and Scene Performance Innovation Performing Skills 2: Style and Form Understanding Performance Staging Australia	Compulso INB340 INB371 INB372 Electives INB341 INB311 INB312 INB272 INB313 INB322 INB320	Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives Software Development With Oracle Enterprise Systems Enterprise Systems Applications Interaction Design Electronic Commerce Site Development Information Systems Consulting Business Process Modelling
KRB120 KRB220 KTB101 KTB103 KTB104 KTB106 KTB204 KTB207 KTB210	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. Ince Studies Scenography and the Art of Technical Theatre The Scenographic Divide 20th Century Performance Performing Skills 1: Character and Scene Performance Innovation Performing Skills 2: Style and Form Understanding Performance Staging Australia Creative Industries Management Creative Industries Events and Festivals	Compulso INB340 INB371 INB372 Electives INB341 INB311 INB312 INB272 INB313 INB322	Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives Software Development With Oracle Enterprise Systems Enterprise Systems Applications Interaction Design Electronic Commerce Site Development Information Systems Consulting Business Process Modelling Systems Programming
KRB120 KRB220 KTB101 KTB103 KTB104 KTB106 KTB204 KTB207 KTB210	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. Ince Studies Scenography and the Art of Technical Theatre The Scenographic Divide 20th Century Performance Performing Skills 1: Character and Scene Performance Innovation Performing Skills 2: Style and Form Understanding Performance Staging Australia Creative Industries Management Creative Industries Events and Festivals * Please note: KSB215 is permitted to count as Unit Options if completed in 2010 or earlier.	Compulso INB340 INB371 INB372 Electives INB341 INB311 INB312 INB272 INB313 INB322 INB320	ry Units Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives Software Development With Oracle Enterprise Systems Enterprise Systems Applications Interaction Design Electronic Commerce Site Development Information Systems Consulting Business Process Modelling Systems Programming Software Development
KRB120 KRB220 KTB101 KTB103 KTB104 KTB106 KTB204 KTB207 KTB210	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. Ince Studies Scenography and the Art of Technical Theatre The Scenographic Divide 20th Century Performance Performing Skills 1: Character and Scene Performance Innovation Performing Skills 2: Style and Form Understanding Performance Staging Australia Creative Industries Management 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	Compulso INB340 INB371 INB372 Electives INB341 INB311 INB312 INB272 INB313 INB322 INB320 INB365	Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives Software Development With Oracle Enterprise Systems Enterprise Systems Applications Interaction Design Electronic Commerce Site Development Information Systems Consulting Business Process Modelling Systems Programming
KRB120 KRB220 KTB101 KTB103 KTB104 KTB106 KTB204 KTB207 KTB210	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. Ince Studies Scenography and the Art of Technical Theatre The Scenographic Divide 20th Century Performance Performing Skills 1: Character and Scene Performance Innovation Performing Skills 2: Style and Form Understanding Performance Staging Australia Creative Industries Management Creative Industries Events and Festivals * Please note: KSB215 is permitted to count as Unit Options if completed in 2010 or earlier.	Compulso INB340 INB371 INB372 Electives INB341 INB311 INB312 INB272 INB313 INB322 INB320 INB365 INB370	ry Units Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives Software Development With Oracle Enterprise Systems Enterprise Systems Applications Interaction Design Electronic Commerce Site Development Information Systems Consulting Business Process Modelling Systems Programming Software Development
KRB120 KRB220 KTB101 KTB103 KTB104 KTB106 KTB204 KTB207 KTB210 KTB211	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. Ince Studies Scenography and the Art of Technical Theatre The Scenographic Divide 20th Century Performance Performing Skills 1: Character and Scene Performance Innovation Performing Skills 2: Style and Form Understanding Performance Staging Australia Creative Industries Management 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.	Compulso INB340 INB371 INB372 Electives INB341 INB311 INB312 INB272 INB313 INB322 INB320 INB365 INB370 INB373	ry Units Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives Software Development With Oracle Enterprise Systems Enterprise Systems Applications Interaction Design Electronic Commerce Site Development Information Systems Consulting Business Process Modelling Systems Programming Software Development Web Application Development
Performar KRB120 KRB220 KTB101 KTB103 KTB104 KTB106 KTB204 KTB207 KTB210 KTB211	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. Ince Studies Scenography and the Art of Technical Theatre The Scenographic Divide 20th Century Performance Performing Skills 1: Character and Scene Performance Innovation Performing Skills 2: Style and Form Understanding Performance Staging Australia Creative Industries Management 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.	Compulso INB340 INB371 INB372 Electives INB341 INB311 INB312 INB272 INB313 INB322 INB320 INB365 INB370 INB373 INB374	ry Units Database Design Data Structures and Algorithms Agile Software Development Choose 3 Electives Software Development With Oracle Enterprise Systems Enterprise Systems Applications Interaction Design Electronic Commerce Site Development Information Systems Consulting Business Process Modelling Systems Programming Software Development Web Application Development Enterprise Software Architecture

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 Flective Units

15 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 industrysponsored 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** Computational Mathematics 2 MAB420 **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	INB370	Software De
	MAB640	Industry Project	INB373	Web Applica
	MAB672	Advanced Mathematical Modelling	INB374	Enterprise S
		Note: MAB523 Introduction to Quality	INB381	Modelling an
		Management and MAB621 Discrete Mathematics do not contribute to the	INB382	Real Time R
		mandatory 48 credit points minimum from Level 3 Mathematics units.	MAB281	Mathematics
		Level 3 Mathematics units.		MAB281 is c

Intelligent Systems Major (pre 2008)

Compulsor	ory 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

Compulso	ry 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@gut.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

Dr Perry Hartfield

Phone: +61 7 3138 2984 Email: p.hartfield@qut.edu.au

Business Coordinator

Phone: +61 7 3138 2050 Email: bus@qut.edu.au

Science Discipline Coordinators

Biochemistry

Dr Perry Hartfield

Phone: +61 7 3138 2984 Email: p.hartfield@qut.edu.au

Biotechnology

Dr Marion Bateson Phone: +61 7 3138 1206 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@gut.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 2304 Email: c.knox@qut.edu.au

Physics

Dr Greg Michael

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

	FACULTY OF SCIENCE	E AND	TECHNOLOGY	
Year 3 Se	mester 1	Choice un	its	
BSB111	Business Law and Ethics		Choose any three of the following:	
AMB201	Marketing and Audience Research	EFB332	Applied Behavioural Economics	
V00-		EFB333	Introductory Econometrics	
Year 3 Se		EFB334	Environmental Economics and Policy	
AMB318	Advertising Copywriting	EFB336	International Economics	
AMB319	Media Planning	EFB337	Game Theory and Applications	
Year 4 Se	mester 1	Pomoining	g Business Core Units	
AMB320	Advertising Management	Remaining	Students must complete both remaining	
AMB330	Advertising Planning Portfolio		Business School Core Units	
Year 4 Se	mester 2	BSB119	Global Business	
AMB339	Advertising Campaigns	BSB126	Marketing	
MGB223	Entrepreneurship and Innovation	Finance M	laior	
Economic	·	Year 1 Semester 1		
Year 1 Se	mester 1	BSB113	Economics	
BSB113	Economics	BSB115	Management	
BSB115	Management	Year 1 Se	mester 2	
Year 1 Se	mester 2	BSB124	Working in Business	
BSB110	Accounting	BSB126	Marketing	
BSB124	Working in Business	Year 2 Se	mester 1	
		BSB110	Accounting	
Year 2 Se		BSB111	Business Law and Ethics	
BSB111	Business Law and Ethics	DODITI	Business Law and Ethics	
MGB223	Entrepreneurship and Innovation	Year 2 Se	mester 2	
Year 2 Semester 2		BSB119	Global Business	
EFB222	Quantitative Methods For Economics and	MGB223	Entrepreneurship and Innovation	
EED000	Finance	Year 3 Semester 1		
EFB223	Economics 2	EFB210	Finance 1	
Year 3 Semester 1		EFB222	Quantitative Methods For Economics and	
EFB330 Intermediate Macroeconomics			Finance	
EFB331	Intermediate Microeconomics	Year 3 Se	mester 2	
Vac: 2.0-	moster 2	EFB201	Financial Markets	
Year 3 Se	Choice units or remaining Business School	EFB307	Finance 2	
	Core Units	Year 4 Se	mester 1	
	Choice units or remaining Business School Core Units	EFB223	Economics 2	
V		EFB335	Investments	
Year 4 Se		Voor 4 Co	moetor 2	
	Choice units or remaining Business School Core Units	Year 4 Se EFB312	International Finance	
	Choice units or remaining Business School	EFB340	Finance Capstone	
	Core Units			
Year 4 Se	mester 2	numan Ke	esource Management Major	
EFB338	Contemporary Application of Economic Theory	Year 1 Se	mester 1	
	Choice units or remaining Business School Core Units	BSB113	Economics	
	Core Office	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

AMB374

AMB375

Year 4 Semester 1

Year 4 Semester 2

Corporate Communication

Global Public Relations Cases

Public Relations Management

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) Plant and Animal Physiology SCB120 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

Molecular Biology Techniques LQB483

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) Plant and Animal Physiology

SCB121 Chemistry 2

SCB120

Year 2, Semester 1

SCB110 Science Concepts and Global Systems

Plus either:

MAB101 Statistical Data Analysis 1

 \bigcirc r 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 Plant Microbe Interactions **LQB685** 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

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

Year 2, 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

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

FACULTY OF SCIENCE AND TECHNOLOGY SCB112 Cellular Basis of Life SCB131 **Experimental Chemistry** Year 1, Semester 2 (Ecology and Environmental Science Year 3, Semester 1 Pre-Major Strand) LQB383 Molecular and Cellular Regulation SCB120 Plant and Animal Physiology Forensic Sciences - From Crime Scene to **SCB384** Court SCB121 Chemistry 2 Year 3, Semester 2 Year 2, Semester 1 JSB979 Forensic Scientific Evidence SCB110 Science Concepts and Global Systems PQB312 Analytical Chemistry For Scientists and Plus either: Technologists Statistical Data Analysis 1 MAB101 Or Year 4, Semester 1 MAB105 **Preparatory Mathematics PQB513** Instrumental Analysis **PQB584** Forensic Physical Evidence Year 2, Semester 2 NQB202 History of Life on Earth Year 4, Semester 2 SCB123 Physical Science Applications LQB680 Forensic DNA Profiling **PQB684** Forensic Analysis Year 3, Semester 1 Course structure - Major in Geoscience **NQB302** Earth Surface Systems NQB321 **Ecology** Year 1, Semester 1 Year 3, Semester 2 SCB111 Chemistry 1 **NQB403** Soils and the Environment SCB112 Cellular Basis of Life NQB421 **Experimental Design** Year 1, Semester 2 (Geoscience Pre-Major Strand) Year 4, Semester 1 NQB201 Planet Earth NQB501 **SCB123 Environmental Modelling** Physical Science Applications NQB502 Field Methods in Natural Resource Sciences Year 2, Semester 1 Year 4, Semester 2 SCB110 Science Concepts and Global Systems **NQB601** Sustainable Environmental Management Plus either: MAB101 NQB602 **Environmental Chemistry** Statistical Data Analysis 1 Course structure - Major in Forensic Science MAB105 **Preparatory Mathematics** Year 1, Semester 1 Year 2, Semester 2 **SCB111** Chemistry 1 **NQB202** History of Life on Earth SCB112 Cellular Basis of Life SCB222 Exploration of the Universe Year 1, Semester 2 (Forensic Science Pre-Major Strand) Year 3, Semester 1 SCB121 Chemistry 2 **NQB311** Mineralogy SCB122 Cell and Molecular Biology **NQB314** Sedimentary Geology Year 2, Semester 1 Year 3, Semester 2 SCB110 Science Concepts and Global Systems **NQB411** Petrology of Igneous and Metamorphic Rocks Plus either: **NQB412** Structural Geology and Field Methods

MAB101 Statistical Data Analysis 1

Or

MAB105 Preparatory Mathematics

Year 2, Semester 2

SCB123 Physical Science Applications

Year 4, Semester 1

Year 4, Semester 2

Geophysics

Field Methods in Natural Resource Sciences

NQB502

NQB513

NQB613 Plate TectonicsNQB615 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

FACULTY OF SCIENCE AND TECHNOLOGY **AYB219 Taxation Law** 2007-2008 **AYB221** Computerised Accounting Systems Year 1 Semester 1 Year 4 Semester 1 **BSB119 Global Business AYB301** Audit and Assurance **BSB126** Marketing **AYB321** Strategic Management Accounting Year 1 Semester 2 **BSB110** Accounting **AYB311** Financial Accounting Issues **BSB115** Management Year 4 Semester 2 Year 2 Semester 1 AYB339 **Accountancy Capstone** AMB201 Marketing and Audience Research EFB210 Finance 1 **BSB114** now replaced by BSB124 Working in Business International Business Major - Students who commenced in 2007-2008 Year 2 Semester 2 **BSB111 Business Law and Ethics** Year 1 Semester 1 **BSB113 Economics BSB119 Global Business** Year 3 Semester 1 BSB126 Marketing AMB202 Integrated Marketing Communication Year 1 Semester 2 **AMB260** now replaced by AMB263 Introduction to **BSB110** Public Relations Accounting **BSB115 AMB263** Introduction To Public Relations Management Year 2 Semester 1 Year 3 Semester 2 BSB113 **Economics AMB261** Please contact the School of AMPR regarding alternative unit BSB124 Working in Business AMB262 Please contact the School of AMPR regarding alternative unit Year 2 Semester 2 **BSB111 Business Law and Ethics** Year 4 Semester 1 EFB240 Finance for International Business **AMB373** Corporate Communication **AMB374** Global Public Relations Cases Year 3 Semester 1 MGB225 Intercultural Communication and Negotiation Year 4 Semester 2 AMB379 **Public Relations Campaigns IBB208** Please contact the School of AMPR regarding alternative unit **AMB375 Public Relations Management Human Resource Management Major - Students who IBB217** Please contact the School of AMPR regarding **commenced in 2007-2008** alternative unit Year 1 Semester 1 Year 3 Semester 2 **BSB113 Economics AMB210** Importing and Exporting **BSB115** Management MGB340 International Business in the Asia-Pacific Year 1 Semester 2 Year 4 Semester 1 **BSB114** now replaced by BSB124 Working in Business **AMB369** International Business Strategy **BSB126** Marketing **IBB304** Please contact the School of AMPR regarding alternative unit Year 2 Semester 1 Year 4 Semester 2 BSB110 Accounting

Public Relations Major - Students who commenced in

International Logistics

International Marketing

AMB303

AMB336

Year 2 Semester 2

Business Law and Ethics

Global Business

BSB111

BSB119

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.gut.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

Compulso	ry 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

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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

Compulso	ry 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

Accounta	псу мајог
Year 1 Se	mester 1
BSB110	Accounting
BSB115	Management
Year 1 Se	mester 2
BSB123	Data Analysis
BSB124	Working in Business
Year 2 Se	mester 1
BSB111	Business Law and Ethics
BSB113	Economics
Year 2 Se	mester 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

BSB115

BSB113 Economics

Year 1 Semester 2

BSB124 Working in Business

Management

BSB126 Marketing MGB200 Leading Organisations **HRM Option Unit** Year 2 Semester 1 **BSB110** Year 4 Semester 1 Accounting **EFB223 Economics 2** MGB331 Learning and Development in Organisations MGB339 Performance and Reward Year 2 Semester 2 BSB123 Data Analysis Year 4 Semester 2 **BSB119 Global Business** MGB320 Recruitment and Selection **HRM Option Unit** Year 3 Semester 1 **EFB331** Intermediate Microeconomics **HRM Option Unit List EFB330** Intermediate Macroeconomics HRM students must choose two units from the above list (one must be a Level 3 unit). Year 3 Semester 2 MGB201 Contemporary Employment Relations **EFB222** Quantitative Methods For Economics and MGB210 Managing Operations **Finance** MGB310 Sustainability in A Changing Environment **EFB328** Public Economics and Finance MGB309 Strategic Management Year 4 Semester 1 MGB314 Organisational Consulting and Change **BSB111 Business Law and Ethics** MGB370 Personal and Professional Development **EFB200** Applied Regression Analysis MGB335 **Project Management** Year 4 Semester 2 Important Note: **EFB338** Note: Please refer to "Course Updates - List of Contemporary Application of Economic Theory re-coded and replacement Business units" to **EFB314** International Trade and Economic check for course structure changes. Competitiveness **International Business Major** Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to Year 1 Semester 1 check for course structure changes. **BSB126** Marketing **Human Resource Management Major BSB119 Global Business** Year 1 Semester 1 Year 1 Semester 2 **BSB113 Economics** BSB110 Accounting **BSB115** Management **BSB115** Management Year 1 Semester 2 Year 2 Semester 1 BSB124 Working in Business **BSB123 Data Analysis BSB126** Marketing **BSB124** Working in Business Year 2 Semester 1 Year 2 Semester 2 **BSB110** Accounting **BSB111 Business Law and Ethics** BSB111 **Business Law and Ethics** BSB113 **Economics** Year 2 Semester 2 Year 3 Semester 1 BSB123 **Data Analysis EFB240** Finance for International Business **BSB119 Global Business IBB217** Asian Business Development Year 3 Semester 1 **IBB208 European Business Development** MGB207 Human Resource Issues and Strategy MGB220 **Business Research Methods** Year 3 Semester 2 AMB210 Importing and Exporting Year 3 Semester 2

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

	FACULTY OF SCIENC	JE AND	TECHNOLOGY
BSB123	Data Analysis	Banking ar	nd Finance Core units
BSB126	Marketing	EFB101	is replaced by EFB222 Quantitative Methods for Economics and Finance
Year 1 Sei	mester 2	EFB102	now retitled EFB223 Economics 2
BSB110	Accounting	Faanamia	s Core units
BSB115	Management	EFB101	is replaced by EFB222 Quantitative Methods
Year 2 Sei		EED 100	for Economics and Finance
BSB119	Global Business	EFB102	now retitled EFB223 Economics 2
BSB124	Working in Business	EFB202	is replaced by EFB330 Intermediate Macroeconomics
Year 2 Sei BSB111	mester 2 Business Law and Ethics	EFB211	is replaced by EFB331 Intermediate Microeconomics
BSB113	Economics Economics	EFB314	is replaced by EFB336 International Economics
Year 3 Sei		EFB329	is now EFB338 Contemporary Application of Economic
AMB201	Marketing and Audience Research		
AMB263	Introduction To Public Relations		Business Core units
Year 3 Sei	mester 2	BSB212	is replaced by AYB114 Business Technologies
AMB261	Media Relations and Publicity	BSB213	is replaced by AYB115 Governance Issus and Fraud
AMB262	Public Relations Writing	BSB314	is replaced by Forensic and Business Intelligence
Year 4 Sei	mester 1	ITB233	is now INB312 Enterprise Systems Application
AMB374	Global Public Relations Cases	ITB823	is now INB830 Web Sites for E-Commerce
AMB360	Corporate Communication Management	ITB239	is now INB342 Enterprise Data Mining
Year 4 Semester 2		Human Re	esource Management Core units
AMB379 AMB371	Public Relations Campaigns	MGB220	now retitled MGB220 Business Research Methods
	Corporate Communication Strategies	MGB221	is now MGB339 Performance and Reward
Important Note: Note: Please refer to "Course Updates - List of		Internation	al Business Core units
	re-coded and replacement Business units" to check for course structure changes.	IBB202	is replaced by EFB240 Finance for International Business
Course Updates - List of re-coded and replacement Business units		IBB208	IBB208 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
Faculty Co	ore units	IBB210	is now replaced by AMB210 Importing and Exporting
BSB114	is replaced by BSB124 Working in Business	IBB213	is now AMB336 International Marketing
BSB115	now retitled BSB115 Management	IBB217	IBB217 is no longer offered. Please contact the
BSB119	now retitled BSB119 Global Business		School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
BSB122	is replaced by BSB123 Data Analysis	IBB300	is now AMB369 International Business
Accountan	cy Core units	IBB308	Strategy is replaced by MGB340 International Business
AYB121 AYB220	is now AYB200 Financial Accounting AYB121 is now AYB340 Company Accounting AYB220	IDDSUO	in the Asia-Pacific
AYB301	now retitled AYB301 Audit and Assurance	Manageme	ent Core units
		MGB310	Sustainability in a Changing Environment was
	g Core units		formerly known as MGB212 and MGB334
AMB221	is now AMB318 Advertising Copywriting	Marketing	Core units
AMB222	is now AMB319 Media Planning	AMB241	is now AMB335 E-Marketing Strategies
AMB321	is now AMB339 Advertising Campaigns	AMB341	is now AMB359 Strategic Marketing

	TACCETT OF SCIENCE	LAND	TECHNOLOGI
Public Rela	ations Core units		Econometrics
AMB260	is replaced by AMB263 Introduction to Public	Human Re	esource Management Extended Major (HRX)
AMB360	Relations is replaced by AMB373 Corporate	MGB315	is now MGB370 Personal and Professional Development
AMB361	Communication is replaced by AMB379 Public Relations	IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
	Campaigns	MGB310	Sustainability in a Changing Environment was formerly known as MGB212 and MGB334
	aw and Tax Extended Major (BLX)		15 : 5 : 114 : (15)
AYB223	replaced by AYB230 Corporations Law		nal Business Extended Major (IBX)
AYB325	is now AYB219 Taxation Law	IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
AYB305	is replaced by AYB205 Law of Business Entities	IBB303	is now AMB303 International Logistics
AYB312	is now AYB232 Financial Institutions	AMB230 IBB312	now retitled AMB230 Digital Promotions is replaced by AMB300 Independent Project 1
Profession	al Accounting Extended Major (PAX)		
AYB223	is replaced by AYB230 Corporations Law		ent Extended Major (MNX)
AYB325	is now AYB219 Taxation Law	IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
Advertising	g Extended Major (ADX)	MGB218	is now MGB324 Managing Business Growth
AMB230 AMB330	now retitled AMB230 Digital Promotions now retitled AMB330 Advertising Planning	MGB315	is now MGB370 Personal & Professional Development
7 (IVIDOOO	Portfolio	IBB210	is replaced by AMB210 Import and Exporting
Banking Ex	xtended Major (BFX)	IBB303	is now AMB303 International Logistics
AYB312	is now AYB232 Financial Institutions Law	Marketing	Extended Major (MKX)
EFB200	is replaced by EFB333 Introductory Econometrics	AMB251	now retitled AMB251 Innovation and Brand Management
EFB318	is replaced by EFB335 Investments	AMB260	is replaced by AMB263 Introduction to Public Relations
Financial E Finance St	Economics Extended Major (FEX) (for Banking & cudents)	AMB351	is now AMB209 Tourism Marketing
EFB200	is replaced by EFB333 Introductory Econometrics	AMB352	is replaced by AMB252 Business Decision Making
EFB202	is replaced by EFB330 Intermediate	AMB354	is now AMB208 Events Marketing
LI DECE	Macroeconomics	IBB213	is now AMB336 International Marketing
EFB211	is replaced by EFB331 Intermediate Microeconomics	IBB303	is now AMB303 International Logistics
EFB325	is replaced by EFB336 International		ations Extended Major (PRX)
EFB318	Economics is replaced by EFB335 Investments	AMB370	is replaced by AMB374 Global Public Relations Cases
EFB324	is replaced by EFB337 Game Theory and	AMB371	is replaced by AMB375 Public Relations
21 202 1	Applications		Management
	Economics Extended Major (FEX) (for Economics		Law and Tax Specialisation (BLS)
Students)		AYB223	is replaced by AYB230 Corporations Law
EFB200	is replaced by EFB333 Introductory Econometrics	AYB325	is now AYB219 Taxation Law
EFB324	is replaced by EFB201 Financial Markets	AYB305	is now AYB205 Company Law & Practice
EFB325	is replaced by EFB337 Game Theory and	AYB312	is now AYB232 Financial Institutions Law
LI B020	Applications	BSB213	is now AYB115 Governance Issues in E- Business
Funds Mar	nagement Extended Major (FDX)	Electronic	Business Specialisation (EUS)
EFB318	is replaced by EFB335 Investments	BSB212	is replaced by AYB114 Business Technologies
AYB312	is now AYB232 Financial Institutions Law	BSB213	is replaced by AYB115 Governance Issues and
EFB200	is replaced by EFB333 Introductory		Fraud

	FACULTY OF SCIENC	EAND	O TECHNOLOGY
BSB314	is replaced by AYB341 Forensic and Business	INB250	Systems Architecture
ITDOOG	Intelligence	BBUS	Business Faculty Core Unit
ITB233	is now INB312 Enterprise Systems Applications	BBUS	Business Faculty Core Unit
ITB823	is now INB830 Web Sites for E-Commerce	Year 1, S	emester 2
ITB239	is now INB342 Enterprise Data Mining	INB210	Databases
Financial I	Economics Specialisation (FES)	INB251	Networks
FFB102	is replaced by EFB223 Economics 2	BBUS	Business Faculty Core Unit
EFB202	is replaced by EFB330 Intermediate Macroeconomics	BBUS	Business Faculty Core Unit
EFB211	is replaced by EFB331 Intermediate	Year 2, S	emester 1
LIDZII	Microeconomics	INB104	Building IT Systems
EFB329	is now 338 Contemporary Applications of Economics		Choose one unit from: Intermediate Level Elective list. This choice will replace ITB008
EFB314	is replaced by EB336 International Economics	DDIIO	from 2009 course summary.
EFB324	is replaced by EFB201 Financial Markets	BBUS	Business Faculty Core Unit
EFB325	is replaced by EFB337 Game Theory and	BBUS	Business Faculty Core Unit
	Applications	Year 2, S	emester 2
Integrated	Marketing Communication Specialisation (IMS)	INB270	Programming
AMB260	is replaced by AMB263 Introduction to Public	INB271	The Web
	Relations	BBUS	Business Unit
AMB230	now retitled AMB230 Digital Promotions	BBUS	Business Unit
AMB354	is now AMB208 Events Marketing	V 0.0	
Internation	nal Logistics Specialisation (ILG)	Year 3, S	
IBB303	is now AMB303 International Logistics		IT Major Unit
BSB314	is replaced by AYB341 Forensic and Business		IT Major Unit
	Intelligence	BBUS	Business Faculty Core Unit
IBB210	is replaced by AMB210 Importing and Exporting	BBUS	Business Faculty Core Unit
EFB213	is replaced by AMB252 Business Decision	Year 3 Se	
	Making (offered Sem 2); OR MGB335 Project Management (offered Sem 1 & 2)	INB301	The Business of IT
			IT Major Unit
Sales Spe	cialisation (SALES)	BBUS	Business Faculty Major Unit
AMB230	now retitled AMB230 Digital Promotion	BBUS	Business Faculty Major Unit
AMB250	is replaced by MGB225 Intercultural Communication and Negotiation Skills	Year 4, S	emester 1
		INB302	Capstone Project
Internation	nal Exchange Specialisation (IEX)		IT Major Unit
IBB205	is now MGB225 Intercultural Communication and Negotiation Skills	BBUS	Business Faculty Major Unit
	·	BBUS	Business Faculty Major Unit
	chelor of Business/Bachelor of Information gy Course structure 2009	Voor 1 S	emester 2
i ecimiolo(gy Course structure 2003	1 cal 4, 3	
Course St	ructure 2009		IT Major Unit
	From semester one, 2009 this course will not	DDUIG	IT Major Unit
	be available for commencing students. IX33 will only be available for continuing students. New students - please refer to IX58. Please	BBUS BBUS	Business Faculty Major Unit Business Faculty Major Unit

New students - please refer to IX58. Please contact fit.enquiry@qut.edu.au for any enquiries.

Year 1, Semester 1

INB103 Industry Insights

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 ProgrammingITB008 Modelling Analysis and DesignBBUS Business Faculty Core UnitBBUS Business Faculty Core Unit

Year 2, Semester 2

ITB003 Object Oriented Programming

ITB007 Web DevelopmentBBUS Business UnitBBUS 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

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 core units Choice units or remaining Business School Year 1 Semester 2 core units **BSB110** Accounting Year 4 Semester 1 **BSB115** Management Choice units or remaining Business School core units Year 2 Semester 1 Choice units or remaining Business School BSB124 Working in Business core units **BSB119 Global Business** Year 4 Semester 2 Year 2 Semester 2 **EFB338** Contemporary Application of Economic Theory **AMB200** Consumer Behaviour Choice units or remaining Business School core units **AMB220** Advertising Theory and Practice Choice units Year 3 Semester 1 Choose any three of the following: BSB111 **Business Law and Ethics EFB332** Applied Behavioural Economics **AMB201** Marketing and Audience Research **EFB333** Introductory Econometrics Year 3 Semester 2 **EFB334 Environmental Economics and Policy AMB318** Advertising Copywriting **EFB336** International Economics **AMB319** Media Planning **EFB337** Game Theory and Applications Year 4 Semester 1 Important Note: AMB320 Advertising Management Note: BSB119 and BSB126 are the remaining **AMB330** Business School core units to be completed Advertising Planning Portfolio from the Business program. Year 4 Semester 2 **Finance Major** AMB339 Advertising Campaigns MGB223 Entrepreneurship and Innovation Year 1 Semester 1 **BSB113 Economics Economics Major BSB115** Management Year 1 Semester 1 Year 1 Semester 2 **BSB113 Economics** BSB124 Working in Business **BSB115** Management **BSB126** Marketing Year 1 Semester 2 Year 2 Semester 1 BSB110 Accounting **BSB110** Accounting **BSB124** Working in Business **BSB111 Business Law and Ethics** Year 2 Semester 1 Year 2 Semester 2 BSB111 **Business Law and Ethics BSB119 Global Business** MGB223 Entrepreneurship and Innovation MGB223 Entrepreneurship and Innovation Year 2 Semester 2 Year 3 Semester 1 **EFB222** Quantitative Methods For Economics and EFB210 Finance 1 Finance EFB222 **EFB223 Economics 2** Quantitative Methods For Economics and Finance Year 3 Semester 1 Year 3 Semester 2 **EFB330** Intermediate Macroeconomics EFB201 **Financial Markets EFB331** Intermediate Microeconomics

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Year 3 Semester 2

Choice units or remaining Business School

EFB307

Year 4 Semester 1

Finance 2

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

	17(00211 01 001211	<u> </u>	120111102001
MAB120	Algebra and Calculus	MAB536	Time Series Analysis
Year 1, Se	emester 2	MAB613	Partial Differential Equations
MAB121	Calculus and Differential Equations	MAB623	Financial Mathematics
MAB122	Algebra and Analytic Geometry	MAB624	Applied Statistics 3
	, ,	MAB625	Operations Research 3B
Year 2, Se	emester 1	MAB640	Industry Project
MAB210	Statistical Modelling 1	MAB672	Advanced Mathematical Modelling
MAB311	Advanced Calculus		Note: MAB523 Introduction to Quality Management and MAB621 Discrete Mathematics do not contribute to the
Year 2, Se			mandatory 48 credit points minimum from
MAB220	Computational Mathematics 1		Level 3 Mathematics units.
	Mathematics Elective		ncy Major Course Structure for Students with
Year 3, Se	emester 1	Maths B a	nd C
MAB312	Linear Algebra	Year 1 Se	mester 1
	Mathematics Elective	BSB110	Accounting
Year 3, Se	amostor 2	BSB115	Management, People and Organisations
1 c al 3, 36	Mathematics Elective		
	Mathematics Elective	Year 1 Ser	
	Mathematics Elective	BSB114	Government, Business and Society
Year 4, Se	emester 1	BSB126	Marketing
	Mathematics Elective		or
	Mathematics Elective	BSB119	International and Electronic Business
Year 4, Se	emester 2	Year 2 Ser	mester 1
	Mathematics Elective	BSB111	Business Law and Ethics
	Mathematics Elective	BSB113	Economics
Mathemati	ics Units	Year 2 Se	mester 2
		AYB121	Financial Accounting
Level 2 Ur		AYB223	Law of Business Associations
MAB311	Advanced Calculus	Year 3 Se	montar 1
MAB312	Linear Algebra	AYB225	
MAB313	Mathematics of Finance	AYB220	Management Accounting
MAB314	Statistical Modelling 2	ATDZZU	Company Accounting
MAB315			
	Operations Research 2	Year 3 Se	mester 2
MAB413	Operations Research 2 Differential Equations	Year 3 Ser AYB221	mester 2 Computerised Accounting Systems
MAB413	·		
	Differential Equations	AYB221 AYB325	Computerised Accounting Systems Taxation Law
MAB414	Differential Equations Applied Statistics 2	AYB221 AYB325 Year 4 Ser	Computerised Accounting Systems Taxation Law mester 1
MAB414 MAB420	Differential Equations Applied Statistics 2 Computational Mathematics 2	AYB221 AYB325 Year 4 Sel AYB301	Computerised Accounting Systems Taxation Law mester 1 Auditing
MAB414 MAB420 MAB422	Differential Equations Applied Statistics 2 Computational Mathematics 2 Mathematical Modelling	AYB221 AYB325 Year 4 Ser	Computerised Accounting Systems Taxation Law mester 1 Auditing Financial Accounting Issues
MAB414 MAB420 MAB422 MAB461	Differential Equations Applied Statistics 2 Computational Mathematics 2 Mathematical Modelling Discrete Mathematics	AYB221 AYB325 Year 4 Sel AYB301	Computerised Accounting Systems Taxation Law mester 1 Auditing
MAB414 MAB420 MAB422 MAB461 MAB480	Differential Equations Applied Statistics 2 Computational Mathematics 2 Mathematical Modelling Discrete Mathematics Introduction to Scientific Computation Note: MAB311 Advanced Calculus and	AYB221 AYB325 Year 4 Ser AYB301 AYB311	Computerised Accounting Systems Taxation Law mester 1 Auditing Financial Accounting Issues or Strategic Management Accounting
MAB414 MAB420 MAB422 MAB461 MAB480	Differential Equations Applied Statistics 2 Computational Mathematics 2 Mathematical Modelling Discrete Mathematics Introduction to Scientific Computation Note: MAB311 Advanced Calculus and MAB312 Linear Algebra are mandatory units.	AYB221 AYB325 Year 4 Ser AYB301 AYB311	Computerised Accounting Systems Taxation Law mester 1 Auditing Financial Accounting Issues or Strategic Management Accounting mester 2
MAB414 MAB420 MAB422 MAB461 MAB480	Differential Equations Applied Statistics 2 Computational Mathematics 2 Mathematical Modelling Discrete Mathematics Introduction to Scientific Computation Note: MAB311 Advanced Calculus and MAB312 Linear Algebra are mandatory units.	AYB221 AYB325 Year 4 Ser AYB301 AYB311 AYB321 Year 4 Ser	Computerised Accounting Systems Taxation Law mester 1 Auditing Financial Accounting Issues or Strategic Management Accounting
MAB414 MAB420 MAB422 MAB461 MAB480 Level 3 Ur MAB521	Differential Equations Applied Statistics 2 Computational Mathematics 2 Mathematical Modelling Discrete Mathematics Introduction to Scientific Computation Note: MAB311 Advanced Calculus and MAB312 Linear Algebra are mandatory units. hits - at least 4 units must be selected Applied Mathematics 3	AYB221 AYB325 Year 4 Ser AYB301 AYB311 AYB321 Year 4 Ser AYB339 EFB210	Computerised Accounting Systems Taxation Law mester 1 Auditing Financial Accounting Issues or Strategic Management Accounting mester 2 Accountancy Capstone Finance 1
MAB414 MAB420 MAB422 MAB461 MAB480 Level 3 Ur MAB521 MAB522	Differential Equations Applied Statistics 2 Computational Mathematics 2 Mathematical Modelling Discrete Mathematics Introduction to Scientific Computation Note: MAB311 Advanced Calculus and MAB312 Linear Algebra are mandatory units. hits - at least 4 units must be selected Applied Mathematics 3 Computational Mathematics 3	AYB221 AYB325 Year 4 Ser AYB301 AYB311 AYB321 Year 4 Ser AYB339 EFB210 Banking a	Computerised Accounting Systems Taxation Law mester 1 Auditing Financial Accounting Issues or Strategic Management Accounting mester 2 Accountancy Capstone

FACULTY OF SCIENCE AND TECHNOLOGY Year 1 Semester 1 Year 3 Semester 2 BSB113 **Economics EFB328** Public Economics and Finance **BSB115** Management, People and Organisations Any Economics unit Year 1 Semester 2 Year 4 Semester 1 BSB114 Government, Business and Society **BSB111 Business Law and Ethics** BSB126 Marketing **EFB200 Applied Regression Analysis** Year 2 Semester 1 Year 4 Semester 2 **BSB110** Accounting EFB329 Contemporary Applications of Economics BSB111 **Business Law and Ethics** Theory **EFB314** International Trade and Economic Year 2 Semester 2 Competitiveness EFB102 **Economics 2 International Business Major Course Structure for** International and Electronic Business **BSB119** Students with Maths B and C Year 3 Semester 1 Year 1 Semester 1 EFB210 Finance 1 **BSB126** Marketing EFB201 **Financial Markets BSB119** International and Electronic Business Year 3 Semester 2 Year 1 Semester 2 EFB307 Finance 2 BSB110 Accounting International Finance **EFB312 BSB115** Management, People and Organisations Year 4 Semester 1 Year 2 Semester 1 EFB200 Applied Regression Analysis **BSB114** Government, Business and Society Portfolio and Security Analysis **EFB318** IBB202 Fundamentals of International Finance Year 4 Semester 2 Year 2 Semester 2 Any Finance Unit **BSB111 Business Law and Ethics** Any Finance Unit BSB113 **Economics Economics Major Course Structure for Students with** Year 3 Semester 1 Maths B and C **IBB205** Intercultural Communication and Negotiation Year 1 Semester 1 **IBB217** Asian Business Development BSB113 **Economics BSB115** Management, People and Organisations **IBB208 European Business Development** Year 1 Semester 2 Year 3 Semester 2 BSB114 Government, Business and Society **IBB210 Export Management** BSB126 Marketing **IBB317** Contemporary Business in Asia Year 2 Semester 1 **IBB308** Contemporary Business in Europe BSB110 Accounting EFB102 **Economics 2** Year 4 Semester 1 IBB300 International Business Strategy Year 2 Semester 2 **IBB304** Global Industry Analysis EFB210 Finance 1 BSB119 International and Electronic Business Year 4 Semester 2

Marketing Major Course Structure for Students with

International Marketing

International Logistics

Year 3 Semester 1

Firms. Markets and Resources

Business Cycles and Economic Growth

EFB211

EFB202

IBB213

IBB303

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

BB202 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

Marketing Decision Making	Internation	nal Business Core units
or International Marketing	IBB202	is replaced by EFB240 Finance for International Business
odates - List of re-coded and replacement units	IBB208	IBB208 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
ore units	IBB210	is now replaced by AMB210 Importing and Exporting
is replaced by BSB124 Working in Business	IBB213	is now AMB336 International Marketing
now retitled BSB115 Management now retitled BSB119 Global Business	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
•	іввооо	in the Asia-Pacific
	Managam	ont Coro unite
now retitled AYB301 Audit and Assurance		Sustainability in a Changing Environment was
g Core units	WIGBS 10	formerly known as MGB212 and MGB334
is now AMB318 Advertising Copywriting	Marketing	Core units
is now AMB319 Media Planning	AMB241	is now AMB335 E-Marketing Strategies
is now AMB339 Advertising Campaigns	AMB341	is now AMB359 Strategic Marketing
nd Finance Core units	Public Rel	ations Core units
is replaced by EFB222 Quantitative Methods for Economics and Finance	AMB260	is replaced by AMB263 Introduction to Public Relations
now retitled EFB223 Economics 2	AMB360	is replaced by AMB373 Corporate Communication
s Core units	AMB361	is replaced by AMB379 Public Relations
is replaced by EFB222 Quantitative Methods for Economics and Finance	,	Campaigns
now retitled EFB223 Economics 2	Business I	Law and Tax Extended Major (BLX)
is replaced by EFB330 Intermediate	AYB223	replaced by AYB230 Corporations Law
		is now AYB219 Taxation Law
Microeconomics	AYB305	is replaced by AYB205 Law of Business Entities
is replaced by EFB336 International Economics	AYB312	is now AYB232 Financial Institutions
is now EFB338 Contemporary Application of	Profession	nal Accounting Extended Major (PAX)
Economic	AYB223	is replaced by AYB230 Corporations Law
Business Core units	AYB325	is now AYB219 Taxation Law
is replaced by AYB114 Business Technologies	A al. (ati a i.a.	or Futon dead Maior (ADV)
is replaced by AYB115 Governance Issus and		g Extended Major (ADX) now retitled AMB230 Digital Promotions
is replaced by Forensic and Business	AMB330	now retitled AMB330 Advertising Planning Portfolio
is now INB312 Enterprise Systems Application		
is now INB830 Web Sites for E-Commerce		xtended Major (BFX)
is now INB342 Enterprise Data Mining	AYB312 EFB200	is now AYB232 Financial Institutions Law is replaced by EFB333 Introductory
esource Management Core units		Econometrics
	EFB318	is replaced by EFB335 Investments
now retitled MGB220 Business Research Methods		Economics Extended Major (FEX) (for Banking &
	odates - List of re-coded and replacement units ore units is replaced by BSB124 Working in Business now retitled BSB115 Management now retitled BSB119 Global Business is replaced by BSB123 Data Analysis ocy Core units is now AYB200 Financial Accounting AYB121 is now AYB340 Company Accounting AYB220 now retitled AYB301 Audit and Assurance g Core units is now AMB318 Advertising Copywriting is now AMB319 Media Planning is now AMB339 Advertising Campaigns ond Finance Core units is replaced by EFB222 Quantitative Methods for Economics and Finance now retitled EFB223 Economics 2 s Core units is replaced by EFB330 Intermediate Macroeconomics and Finance now retitled EFB233 Economics 2 is replaced by EFB331 Intermediate Microeconomics is replaced by EFB336 International Economics is now EFB338 Contemporary Application of Economic Business Core units is replaced by AYB114 Business Technologies is replaced by AYB115 Governance Issus and Fraud is replaced by Forensic and Business Intelligence is now INB312 Enterprise Systems Application is now INB830 Web Sites for E-Commerce is now INB830 Web Sites for E-Commerce is now INB830 Web Sites for E-Commerce is now INB342 Enterprise Data Mining	or International Marketing codates - List of re-coded and replacement units core units is replaced by BSB124 Working in Business now retitled BSB115 Management now retitled BSB119 Global Business is replaced by BSB123 Data Analysis is now AYB200 Financial Accounting AYB121 is now AYB340 Company Accounting AYB220 now retitled AYB301 Audit and Assurance g Core units is now AMB318 Advertising Copywriting is now AMB319 Media Planning is now AMB339 Advertising Campaigns and Finance Core units is replaced by EFB222 Quantitative Methods for Economics and Finance now retitled EFB223 Economics 2 is replaced by EFB321 Intermediate Microeconomics is replaced by EFB331 Intermediate Microeconomics is replaced by EFB331 Intermediate Microeconomics is replaced by AYB314 Business Technologies is replaced by AYB115 Governance Issus and Fraud is replaced by Forensic and Business Intelligence is now INB330 Web Sites for E-Commerce is now INB342 Enterprise Data Mining IBB208 IBB209 IBB208 IBB209 IBB209 IBB209 IBB209 IBB210 IBB208 IBB210 IBB208 IBB210 IBB208 IBB217 IBB208 IBB218 IBB217 IBB208 IBB218 IBB217 IBB208 IBB218 IBB217 IBB218 IBB218 IBB218 IBB218 IBB217 IBB218 IBB218 IBB218 IBB217 IBB218 IBB218

FACULTY OF SCIENCE AND TECHNOLOGY **EFB200** AMB352 is replaced by AMB252 Business Decision is replaced by EFB333 Introductory **Econometrics** Making is replaced by EFB330 Intermediate **EFB202 AMB354** is now AMB208 Events Marketing Macroeconomics **IBB213** is now AMB336 International Marketing **EFB211** is replaced by EFB331 Intermediate **IBB303** is now AMB303 International Logistics Microeconomics **EFB325** is replaced by EFB336 International Public Relations Extended Major (PRX) **Economics** is replaced by AMB374 Global Public Relations AMB370 **EFB318** is replaced by EFB335 Investments Cases **EFB324** is replaced by EFB337 Game Theory and **AMB371** is replaced by AMB375 Public Relations **Applications** Management Financial Economics Extended Major (FEX) (for Economics Business Law and Tax Specialisation (BLS) Students) AYB223 is replaced by AYB230 Corporations Law **EFB200** is replaced by EFB333 Introductory AYB325 is now AYB219 Taxation Law Econometrics **AYB305** is now AYB205 Company Law & Practice **EFB324** is replaced by EFB201 Financial Markets **AYB312** is now AYB232 Financial Institutions Law **EFB325** is replaced by EFB337 Game Theory and **Applications** is now AYB115 Governance Issues in E-**BSB213 Business** Funds Management Extended Major (FDX) Electronic Business Specialisation (EUS) **EFB318** is replaced by EFB335 Investments is replaced by AYB114 Business Technologies **BSB212 AYB312** is now AYB232 Financial Institutions Law **BSB213** is replaced by AYB115 Governance Issues and **EFB200** is replaced by EFB333 Introductory Fraud Econometrics **BSB314** is replaced by AYB341 Forensic and Business Human Resource Management Extended Major (HRX) Intelligence is now MGB370 Personal and Professional MGB315 **ITB233** is now INB312 Enterprise Systems Development **Applications IBB205** is now MGB225 Intercultural Communication ITB823 is now INB830 Web Sites for E-Commerce and Negotiation Skills **ITB239** is now INB342 Enterprise Data Mining Sustainability in a Changing Environment was MGB310 formerly known as MGB212 and MGB334 Financial Economics Specialisation (FES) is replaced by EFB223 Economics 2 **EFB102** International Business Extended Major (IBX) **EFB202** is replaced by EFB330 Intermediate **IBB205** is now MGB225 Intercultural Communication Macroeconomics and Negotiation Skills **EFB211** is replaced by EFB331 Intermediate **IBB303** is now AMB303 International Logistics Microeconomics AMB230 now retitled AMB230 Digital Promotions **EFB329** is now 338 Contemporary Applications of 1 Ε Ε

, and E	now roution / tivibzoo bigitai i romotiono
IBB312	is replaced by AMB300 Independent Project 1
Manageme	nt 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		

	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 I	Marketing Communication Specialisation (IMS)
AMB260	is replaced by AMB263 Introduction to Public
	Relations
AMB230	
AMB230 AMB354	Relations

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 DatabasesINB251 NetworksBA 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

BA

IT Major Unit IT Major Unit 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 Elective unit

BA Discipline unit or Elective unit

Information Systems Major

Compulsory Units

BA

INB311 Enterprise SystemsINB340 Database DesignINB220 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 ServicesINB351 Unix Network Administration

INB352 Network Planning

INB255 Security

Electives

INB312 Enterprise Systems ApplicationsINB365 Systems Programming

INB353 Wireless and Mobile NetworksINB355 Cryptology and Protocols

Software Architecture Major

Compulsory Units

INB340 Database Design

	INB371 INB372	Data Structures and Algorithms Agile Software Development		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.	
	Electives		JSB171	Justice and Society	
		Choose 3 Electives	JSB175	Social Ethics and the Justice System	
	INB341	Software Development With Oracle	LWS101	Ethics Law and Health Care	
	INB311	Enterprise Systems	NSB113	Diversity and Health: Introduction to	
	INB312	Enterprise Systems Applications		Indigenous and Multicultural Perspectives	
	INB272	Interaction Design	PUB486	Ethics and the Law in Health Service Delivery	
	INB313	Electronic Commerce Site Development	SWB105	Introduction to Human Rights and Ethics	
	INB322	Information Systems Consulting	SWB219	Ethical and Legal Dimensions of Human	
	INB320	Business Process Modelling		Services and Social Work	
INB365 Systems Programming		Community Studies Multidisciplinary Major			
	INB370	Software Development	0 "	0. "	
 INB373 Web Application Development INB374 Enterprise Software Architecture INB381 Modelling and Animation Techniques INB382 Real Time Rendering Techniques 		Web Application Development	Community Studies		
		Enterprise Software Architecture		Seven (7) units are required for a Community Studies Major. These can include units completed in the Community Studies Major up	
		Modelling and Animation Techniques			
		Real Time Rendering Techniques		to 2009 as well as any completed from the following list.	
	MAB281	Mathematics for Computer Graphics	EDB040	Indigenous Knowledge: Research Ethics and	

Society and Change Multidisciplinary Major

INB381

MAB281 is only to be used as a prereq for

		SWB102
Society an	d Change	SWB103
	Seven (7) units are required for a Society and Change Major. These can include units	SWB104
	completed in the Society and Change Major up to 2009 as well as any completed from the following list:	SWB204 SWB206
CLB107	The Classical World	SWB207
CLB110	Environment and Society	SWB212
CLB111	Environmental Hazards	SWB214
JSB171	Justice and Society	SWB216
KMB003	Sex Drugs Rock 'N' Roll	SWB219
MDB454	Science, Technology and Society	SWB220
PUB209	Health, Culture and Society	SWB22
PYB067	Human Sexuality	SWB22
SCB110	Science Concepts and Global Systems	OVVBZZZ
SWB102	The Human Condition	SWB302
SWB104	Interpersonal Communication	SWB304
SWB212	Community Work	SWB30
SWB214	Team Practice and Group Processes	SWB306
SWB222	Advanced Communication for Human Services and Social Work	SWB307
SWB223	People, Society and Social Work	3441300
SWB302	Social Policy Processes	Australi

Ethics and Human Rights Multidisciplinary Major

Ethics and Human Rights

Seven (7) units are required for an Ethics and

Major

	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
Δustralian	Studies Multidisciplinary Major

lian 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:

FREN101 French 1/Introductory French A

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	FACULTY OF SCIENCE	E AND	TECHNOLOGY
FREN102 0	French 2/Introductory French B	GRMN301 0	German 5/Advanced German Language 1
FREN201	French 3/Intermediate French A	GRMN302 0	German 6/Advanced German Language 2
	OR	GRMN311	German 7/Advanced German Language 3
FREN311 2	French Langage A	0 GRMN312	German 8/Advanced German Language 4
	French 4/Intermediate French B *	0	German Graduanced German Language 4
· ·	OR	Japanese	
FREN311	French Langage B *		The following units are taught at UQ. Six sequenced units are required for a Japanese Discipline Major. These can include units
FREN311 4	French 5/French Language C		completed in the Japanese Discipline Major up to 2009 as well as those from the following list:
FREN311	French 6/French Language D	JAPN1011	Japanese 1/Introductory Japanese 1
5	5 5	JAPN2011	Japanese 2/Introductory Japanese 2
FREN311 6	French 7/Advanced French Language **	JAPN2101	Japanese 3/Intermediate Japanese 1
O	OB	JAPN3001	Japanese 4/Intermediate Japanese 2
EDENIOOO	OR Eropeh for Business	JAPN3101	Japanese 5/Continuing Japanese 3
FREN333	French for Business	JAPN3102	Japanese 6/Continuing Japanese 4
	OR	JAPN3200	Japanese 7/Multimedia Japanese
FREN336	Le cinema en Français		OR
0		JAPN3240	Modern Literary Texts
_	French 8/Advanced Oral French		OR
0	OR	JAPN3210	Polite Japanese Written & Spoken Styles
FREN321	Litterature et modernite	JAPN3500	Japanese 8/Language and Society in Japan
0	Litterature et modernite		
	OR	Indonesian	
FREN331 0	Introduction to French > English Translation OR		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
FREN335	Litterature Contemporaine		list:
O	* FREN2010 is third semester French for		Indonesian 1/Introductory Indonesian A
	students who have done HHB061 and HHB062	INDN1001	Indonesian 2/Introductory Indonesian B
	(semester 1 and 2 beginner French). FREN3112 is first semester French for	INDN2000	Indonesian 3/Intermediate Indonesian A
	students who have successfully completed	INDN2001	Indonesian 4/Intermediate Indonesian B
	Year 12 in the last three years	INDN3000	Indonesian 5/Advanced Indonesian A
	** Students who have already completed HHB066 French 6 at QUT should not enrol in	INDN3001	Indonesian 6/Advanced Indonesian B
	FREN3116.	INDN3003	Indonesian 7/Indonesian Through the Media
German		INDN3005	Indonesian 8/Indonesian Translation B
Coman	The following units are taught at UQ. Six sequenced units are required for a German	Discipline	Major - Social Science
	Discipline Major. These can include units completed in the German Discipline Major up	SOCIAL SO	CIENCE
	to 2009 as well as those from the following list:		Six (6) units are required for a Social Science
GRMN101 0	German 1/Introductory German Language 1		Discipline Major which comprises Sociology units and Political Studies units. These can include units completed in the Social Science
GRMN102 0	German 2/Introductory German Languge 2		Discipline Major up to 2009 as well as any completed from the following list.
	German 3/Continuing German Language 1	Sociology	
	Cormon A/Continuing Common Language 2	CLB403	Gender And Sexuality Issues For Teachers
GRMN202 0	German 4/Continuing German Language 2	022100	2335.7 and Conduity loods of or redollers

Theories of Crime
Youth Justice
Drugs and Crime
Gender Crime and the Criminal Justice System
Sex Drugs Rock 'N' Roll
Science, Technology and Society
Human Sexuality
Health, Culture and Society
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 InsightsINB104 Building IT SystemsLWB146 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	INB340	Database Design
	Law Elective	INB341	Software Development With Oracle
		INB342	Enterprise Data Mining and Data Analysis
Year 5, Se		INB343	Advanced Data Mining and Data Warehousing
LWB335	Administrative Law	INB344	Search Engine Technology
LWB431	Civil Procedure	3.	DIGITAL ENVIRONMENTS:
	Law Elective	INB345	Mobile Devices
	Law Elective	INB346	Enterprise 2.0
Year 5, Se	mester 2	INB347	Web 2.0 Applications
LWB433	Professional Responsibility	INB335	Information Resources
	Law Elective	4.	ENTERPRISE SYSTEMS:
	Law Elective	INB123	Project Management Practice
	Law Elective	INB221	Technology Management
		INB311	Enterprise Systems
Year 6, Se		INB312	Enterprise Systems Applications
	Law Elective	5.	NETWORK SYSTEMS:
	Law Elective	INB350	Internet Protocols and Services
	Law Elective	INB351	Unix Network Administration
	Law Elective	INB352	Network Planning
IT Breadth	Option Unit List	INB353	Wireless and Mobile Networks
	•	6.	SOFTWARE ENGINEERING:
IT Breadth	Option Units	INB370	Software Development
	You must complete four (4) units from the following list. You should not commence these	INB371	Data Structures and Algorithms
	units until you have completed INB101,	INB372	Agile Software Development
	INB102, INB103 and INB104.	INB374	Enterprise Software Architecture
INB120	Corporate Systems	7.	WEB TECHNOLOGIES:
INB210	Databases	INB313	Electronic Commerce Site Development
INB220	Business Analysis	INB373	Web Application Development
INB250	Foundations of Computer Science	INB374	Enterprise Software Architecture
INB251	Networks	INB385	Multimedia Systems
INB255	Security	INB386	Advanced Multimedia Systems
INB270	Programming	8.	UNGROUPED:
INB271	The Web	INB204	Special Topic 1
INB272	Interaction Design	INB205	Special Topic 2
IT Special	sation Option Unit List	INB304	Special Topic 3
	·	INB305	Special Topic 4
IT Speciali	st Option Units	INB306	Project 1
	You must complete four (4) units from the following list. Please ensure you have	INB307	Project 2
	completed a minimum of 36 credit points (3	INB307	Project 3
	units) of IT Breadth Option Units before commencing these units. The units are	INB355	Cryptology and Protocols
	grouped in areas to assist you in focusing your	INB365	Systems Programming
4	studies.	INB381	Modelling and Animation Techniques
1.	BUSINESS PROCESS MANAGEMENT:	INB381	
INB320	Business Process Modelling	INB860	Real Time Rendering Techniques Computational Intelligence for Control and
INB321	Business Process Management	пирооп	Embedded Systems
INB322	Information Systems Consulting	Low Floor	ive Information
INB123	Project Management Practice	Law Elect	ive information
2.	DATA WAREHOUSING: Law Electives		ives

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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 InsightsINB104 Building IT SystemsLWB146 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

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 PracticeLWB497 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.

emailing law_enquiries@qut.edu.au

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:

LWB456

+ 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

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

	FACULTY OF SCIENC	E AND	TECHNOLOGY
sufficient student enrolment numbers and staff availability.		LWB486	Intellectual Property Law
		LWB489	Native Title Law and Practice
Undergrad	uate Core Units	LWB494	Principles of Sentencing
LWB239	Criminal Responsibility	LWB496	Australian and Comparative Human Rights Law
LWB241 LWB244	Trusts Property Law B	LWB498	Dispute Resolution and Non-adversarial Practice
LWB334	Corporate Law	LWB499	Creative Commons Clinic
LWB335	Administrative Law	LWBXXX	Consumer and Financial Services Law
LWB431	Civil Procedure	LWBXXX	Climate Change Law
LWB432	Evidence	LWD/OX	Climate Change Law
LWB433	Professional Responsibility	Public Sec	tor
I los de nenes d	and Flacking Hale		Electives that may be offered by the Law School that are particularly relevant to students
	uate Elective Units		considering a future career in the public sector
LWB302	Family Law		include:
LWB364	Introduction to Taxation Law	LWB333	Theories of Law
LWB421	Learning in Professional Practice	LWB406	Fundamentals of Public International Law
LWB486	Intellectual Property Law	LWB413	Queensland Parliamentary Internship Program
LWB498	Dispute Resolution and Non-adversarial Practice	LWB420	Internship
0 1 1		LWB463	Immigration and Refugee Law
Graduate d	destination streams	LWB485	Environmental Law
Legal Practice		LWB486	Intellectual Property Law
	Electives that may be offered by the Law	LWB494	Principles of Sentencing
	School that are particularly relevant to students considering a future career in legal practice include:	LWB496 LWB499	Australian and Comparative Human Rights Law Creative Commons Clinic
LWB302	Family Law	LVVD433	Creative Commons Clinic
LWB307	Insolvency Law	Private En	terprise
LWB308	Australian Employment Law		Electives that may be offered by the Law
LWB309	Succession		School that are particularly relevant to students considering a future career in the private sector include:
LWB312	Real Estate Transactions	LWB308	Australian Employment Law
LWB313	Discrimination & Equal Opportunity Law	LWB366	Law of Commercial Entities
LWB356	Advocacy	LWB367	Law of Corporate Governance
LWB359	Advanced Taxation Law	LWB410	Competition Law
LWB361	Drafting	LWB421	Learning in Professional Practice
LWB363	Insurance Law		254.11.119 11.1.101055.01.41.1.1404.00
LWB364	Introduction to Taxation Law	Placement	Electives
LWB407	Private International Law		Electives which involve students undertaking real world professional experience include:
LWB410	Competition Law	LWB413	Queensland Parliamentary Internship Program
LWB418	Competition Moots 1	LWB413 LWB420	, , ,
LWB435	Legal Research in Practice	LWB420 LWB421	Internship Learning in Professional Practice
LWB454	Banking and Finance Law	LWB421 LWB422	Virtual Law Placement
LWB459	Commercial and Consumer Law	LWB422 LWB423	
LWB460	Sports Law	LVVD423	Intellectual Property and Technology Law Clinic
LWB463	Immigration and Refugee Law		_
LWB480	Media Law	Potential Careers:	

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LWB482

LWB483

LWB485

Internet Law

Medico-Legal Issues

Environmental Law

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,

	FACULTY	OF SCIENC	E AND	TECHNOLOGY	
b 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-lyer (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

FACULTY OF SCIENCE AND TECHNOLOGY Fax +61 7 3138 2703 **ENB301** Instrumentation and Control email: enquiry.scitech@qut.edu.au INB301 The Business of IT **ENB342** Signals, Systems and Transforms Full-time Course structure - Students commencing in 2011 **INB201** Scalable Systems Development Year 4, Semester 2 Year 1, Semester 1 **ENB344** Industrial Electronics **ENB100** Engineering and Sustainability **ENB345** Advanced Design and Professional Practice OR **MAB233 Engineering Mathematics 3 INB103 Industry Insights** OR **INB104 Building IT Systems Electrical Engineering Selective INB101** Impact of IT IT Specialist Option Unit MAB125 Foundations of Engineering Mathematics OR Year 5, Semester 1 MAB126 Mathematics for Engineering 1 **ENB346 Digital Communications** OR Year 1, Semester 2 ENB350 Real-time Computer-based Systems ENB120 **Electrical Energy and Measurements BEB801** Project 1 **ENB200** Introducing Engineering Systems OR INB102 **Emerging Technology** INB309-1 Major Project MAB126 Mathematics for Engineering 1 IT Specialist Option Unit IT Specialist Option Unit MAB127 Mathematics for Engineering 2 Year 5, Semester 2 Year 2, Semester 1 **BEB701** Work Integrated Learning 1 **ENB240** Introduction To Electronics BEB802 Project 2 **ENB130** Mechanical and Thermal Energy OR **ENB250 Electrical Circuits** INB309-2 Major Project MAB127 Mathematics for Engineering 2 IT Specialist Option Unit OR **Electrical Engineering Selective MAB233 Engineering Mathematics 3 Electrical Engineering Selectives** Year 2, Semester 2 **ENB339** Introduction to Robotics ENB150 Introducing Engineering Design **ENB448** Signal Processing and Filtering **ENB242** Introduction To Telecommunications **ENB452** Advanced Power Systems Analysis **ENB243** Linear Circuits and Systems IT Breadth Option Unit **ENB453** Power Equipment and Utilisation **ENB456** Energy Year 3, Semester 1 **ENB457** Controls, Systems and Applications ENB110 **Engineering Statics and Materials ENB458** Modern Control Systems **ENB340** Power Systems and Machines Full-time Course structure - Students commencing in IT Breadth Option Unit 2010 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

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

Electrical Engineering Selective

OR

MAB126	Mathematics for Engineering 1		IT Specialist Option Unit
Year 1, Se	mester 2	Year 5, Se	mester 1
ENB200	Introducing Engineering Systems	ENB346	Digital Communications
ENB130	Mechanical and Thermal Energy		OR
INB102	Emerging Technology	ENB350	Real-time Computer-based Systems
MAB126	Mathematics for Engineering 1	BEB801	Project 1
	OR		OR
MAB127	Mathematics for Engineering 2	INB309-1	Major Project
		INB301	The Business of IT
Year 2, Se			IT Specialist Option Unit
ENB240	Introduction To Electronics		
ENB246	Engineering Problem Solving	Year 5, Se	
	OR	BEB701	Work Integrated Learning 1
INB101	Impact of IT	BEB802	Project 2
ENB250	Electrical Circuits		OR
MAB127	Mathematics for Engineering 2	INB309-2	Major Project
	OR		IT Specialist Option Unit
MAB233	Engineering Mathematics 3		IT Specialist Option Unit
Year 2, Se	mester 2	Electrical E	Engineering Selectives
ENB150	Introducing Engineering Design	ENB339	Introduction to Robotics
ENB242	Introduction To Telecommunications	ENB448	Signal Processing and Filtering
ENB243	Linear Circuits and Systems	ENB452	Advanced Power Systems Analysis
	IT Breadth Option Unit	ENB453	Power Equipment and Utilisation
Year 3, Se	mostor 1	ENB456	Energy
ENB110	Engineering Statics and Materials	ENB457	Controls, Systems and Applications
ENB241	Software Systems Design	ENB458	Modern Control Systems
IT Breadth Option Unit Full-time Course structure – Students commence		Course structure – Students commencing in	
	IT Breadth Option Unit	2009	
	The Breadth Option Offic	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Year 3, Se		Year 1, Se	
ENB244	Microprocessors and Digital Systems	BEB100	Introducing Professional Learning
ENB245	Introduction To Design and Professional Practice	INIDAGO	OR
ENB343	Fields, Transmission and Propagation	INB103	Industry Insights
LINDS43	IT Breadth Option Unit	INB104	Building IT Systems
	Tr Breadin Option Offic	MAB131	Engineering Mathematics 1A
Year 4, Se	mester 1	NA D 400	OR
ENB301	Instrumentation and Control	MAB180	Engineering Mathematics 1B
ENB340	Power Systems and Machines	PCB136	Engineering Physics 1C
ENB342	Signals, Systems and Transforms	Year 1, Se	mester 2
INB201	Scalable Systems Development	BEB200	Introducing Sustainability
Year 4, Se	moster 2	ENB103	Electrical Engineering
	Industrial Electronics	INB102	Emerging Technology
ENB344		MAB132	Engineering Mathematics 2A
ENB345	Advanced Design and Professional Practice		OR
MAB233	Engineering Mathematics 3	MAB182	Engineering Mathematics 2B
	OR		

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
Year 2, Se	mester 1		Electrical Engineering Selective
ENB101	Engineering Mechanics 1	Electrical	Engineering Selectives
ENB104	Engineering Materials	ENB231	Materials and Manufacturing 1
ENB240	Introduction To Electronics	ENB334	Design For Manufacturing
ENB242	Introduction To Telecommunications	ENB339	Introduction to Robotics
Year 2, Se	mester 2	ENB350	Real-time Computer-based Systems
ENB243	Linear Circuits and Systems	ENB352	Communication Environments For Embedded Systems
INB101	Impact of IT	ENB436	Mechatronics System Design
INB270	Programming	ENB440	RF Techniques and Modern Applications
	IT Breadth Option Unit	ENB441	Applied Image Processing
Year 3, Se	mester 1	ENB445	RF Communication Technologies
ENB340	Power Systems and Machines	ENB446	Wireless Communications
ENB342	Signals, Systems and Transforms	ENB448	Signal Processing and Filtering
MAB233	Engineering Mathematics 3	ENB452	Advanced Power Systems Analysis
	IT Breadth Option Unit	ENB453	Power Equipment and Utilisation
\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		ENB454	Power System Management
Year 3, Se		ENB455	Power Electronics
ENB241	Software Systems Design	ENB456	Energy
ENB244	Microprocessors and Digital Systems	ENB457	Controls, Systems and Applications
ENB245	Introduction To Design and Professional Practice	ENB458	Modern Control Systems
	IT Breadth Option Unit	INB353	Wireless and Mobile Networks
		INB860	Computational Intelligence for Control and
Year 4, Se			Embedded Systems
ENB301	Instrumentation and Control	IT Breadth	n Option Unit List
ENB350	Real-time Computer-based Systems		
INB201	Scalable Systems Development	II Breadth	Option Units
	IT Specialist Option Unit		You must complete four (4) units from the following list. You should not commence these
Year 4, Se	mester 2		units until you have completed INB101, INB102, INB103 and INB104.
ENB343	Fields, Transmission and Propagation	INB120	Corporate Systems
ENB344	Industrial Electronics	INB210	Databases
ENB345	Advanced Design and Professional Practice	INB220	Business Analysis
ENB346	Digital Communications	INB250	Foundations of Computer Science
Year 5, Se	mester 1	INB251	Networks
BEB701	Work Integrated Learning 1	INB255	Security
BEB801	Project 1	INB270	Programming
	OR	INB271	The Web
INB309-1	Major Project	INB272	Interaction Design
INB301	The Business of IT	IT Special	isation Option Unit List
	IT Specialist Option Unit	ii opeciai	isation Option office List
\/ - -		IT Special	ist Option Units
Year 5, Se			You must complete four (4) units from the
BEB802	Project 2 OR		following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before

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:

INB309-2

Major Project

IT Specialist Option Unit IT Specialist Option Unit

NCE AND TECHNOLOGY

	FACULTY OF SCIEN
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

Computational Intelligence for Control and Embedded Systems INB860

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@gut.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@gut.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 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.

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

NB302		FACULTY OF SCIENC	E AND	TECHNOLOGY
Science Major Unit INB352 Network Planning Wreless and Mobile Networks 6. SOFTWARE ENGINEERING: INB373 Software Development INB374 Software Development INB375 Software Development INB372 Agile Software Development INB373 Electronic Commerce Site Development INB374 Enterprise Software Architecture Web Application Development INB375 Security INB376 Socurity INB377 Programming 8. UNGROUPED: INB377 The Web INB277 Programming 8. UNGROUPED: IT Specialist Option Units List IT Specialist Option Units List IT Specialist Option Units List IT Specialist Option Units IT Specialist Option Units List IT Specialist Option Units Defore or units of IT Breadth Option Units before following list Please ensure you have reproduced in areas to assist you in focusing your studies. INB300 Business Process Management INB301 Business Process Management INB302 Business Process Management INB303 Project 3 INB303 Computational Intelligence for Control and Embedded Systems INB304 Software Development With Oracle INB304 Software Development With Oracle INB305 Special Topic 3 INB306 Project I INB307 Special Topic 4 INB308 Project 3 INB309 Special Topic 4 INB309 Development INB309 Special Topic 3 INB309 Project 3 INB309 Special Topic 4 INB309 Special Topic 3 INB301 Spe	INB302	IT Capstone Project	5.	NETWORK SYSTEMS:
Science Major Unit INB352 Network Planning Wireless and Mobile Networks 6.		IT Specialisation Unit Option	INB350	Internet Protocols and Services
IT Breadth Option Unit List To Breadth Option Units You must complete four (4) units from the INB372 You must complete four (4) units from the INB371 Data Structures and Algorithms (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		Science Major Unit	INB351	Unix Network Administration
Transmit Poption Units Final Content Poption Units P		Science Major Unit	INB352	Network Planning
Freadth Option Units	IT Breadth	Ontion Unit List	INB353	Wireless and Mobile Networks
Vou must complete four (4) units from the following list. Your statement of the volument of volument of the volument of the volument of volument	II Dieautii	Option out List	6.	SOFTWARE ENGINEERING:
Inlia	IT Breadth	Option Units	INB370	Software Development
units until you have completed INB101, INB372 Angle Soltware Architecture INB120 Corporate Systems INB210 Databases INB210 Databases INB210 Databases INB220 Databases INB220 Foundations of Computer Science INB250 Foundations of Computer Science INB251 Networks INB250 Foundations of Computer Science INB251 Networks INB255 Security INB365 Multimedia Systems INB267 Programming INB270 Interaction Design INB271 The Web INB271 The Web INB271 Interaction Design INB271 Interaction Design INB272 Interaction Design INB272 Interaction Option Unit List INB272 Interaction Option Unit List INB366 Special Topic 1 INB307 Special Topic 2 INB307 Special Topic 4 INB308 Project 1 INB309 Special Topic 4 INB309 Project 1 INB300 Special Topic 4 INB300 Special Topic 4 INB300 Project 2 INB300 Systems Process Management INB301 Systems Process Management INB301 Systems Process Management INB302 Business Process Management INB302 Information Systems Consulting INB303 Project Management Practice 2. DATA WAREHOUSING: INB304 Search Engine Technology 3. DIGITAL ENVIRONMENTS: INB305 Information Systems Data Mining and Data Analysis INB306 Enterprise Data Mining and Data Marehousing INB307 DiGITAL ENVIRONMENTS: INB308 Information Resources INB309 Information Resources INB309 Information Resources INB309 Information Resources INB309 Project Management Practice INB309 Information Resources INB300 Information Resources INB301 Information Resources I		You must complete four (4) units from the	INB371	Data Structures and Algorithms
INB102, INB103 and INB104,		following list. You should not commence these units until you have completed INB101.	INB372	Agile Software Development
NB210		INB102, INB103 and INB104.	INB374	Enterprise Software Architecture
INB220 Business Analysis INB373 Web Application Development INB250 Foundations of Computer Science INB374 Enterprise Software Architecture INB251 Networks INB385 Multimedia Systems INB385 Security INB385 Advanced Multimedia Systems INB386 Advanced Data Mining and Data Warehousing INB374 Enterprise Data Mining and Data Warehousing INB375 Security INB305 Information Resources INB306 Information Resources INB306 INB307 SCB112 Cell and Multimedia Systems INB308 Information Resources INB307 SCB122 Cell and Multimedia Systems INB308 Information Resources INB307 Project John Units INB306 Project Interaction Design INB207 Special Topic 2 INB307 Special Topic 2 INB307 Special Topic 2 INB308 Special Topic 2 INB308 Special Topic 3 INB308 Special Topic 4 INB309 Special Topic 5 INB309 Special Topic 4 INB309 Special Topic 5 INB309 Special Topic 6 INB309 Special Topic 7 INB309 Special Topic 6 INB309 Special Topic 7 INB309 Special Topic 7 INB309 Special Topic 7 INB30	INB120	Corporate Systems	7.	WEB TECHNOLOGIES:
INB250 Foundations of Computer Science INB374 Enterprise Software Architecture INB251 Networks INB385 Multimedia Systems INB255 Security INB386 Advanced Multimedia Systems INB270 Programming 8. UNGROUPED: INB271 The Web INB204 Special Topic 1 INB272 Interaction Design INB205 Special Topic 2 IT Specialistion Option Unit List INB304 Special Topic 3 IT Specialistion Option Units INB306 Project 1 IT Specialistion Option Units INB307 Project 1 IT Specialistion Option Units INB307 Project 2 IT Special Topic 3 INB308 Project 1 INB309 Project 3 INB309 Project 2 INB301 Business Pr	INB210	Databases	INB313	Electronic Commerce Site Development
INB251 Networks	INB220	Business Analysis	INB373	Web Application Development
INB255 Security INB270 Programming 8. UNGROUPED: INB271 The Web INB204 Special Topic 1 INB272 Interaction Design INB205 Special Topic 2 IT Specialisation Option Units List INB306 Special Topic 3 INB307 Special Topic 3 INB308 Special Topic 3 INB308 Special Topic 3 INB309 Special Topic 3 INB300 Special Topic 4 INB300 Project 1 INB300 Project 1 INB300 Project 3 INB301 Project 3 INB301 Project 3 INB301 Project 3 INB302 Project 3 INB303 Project 3 INB309 Project 3 INB300 Project 4 INB300 Project 1 INB300 Project 4 INB300 Project 4 INB300 Project 4 INB300 Project 4 INB300 Project 1 INB300 Project 4 INB300 Project 4 INB300 Project 1 INB300 Project 1 INB300 Project 1 INB300 Project 4 INB300 Project 1 INB300 Project 1 INB300 Project 1 INB300 Project 1 INB300 Project 4 INB300 Project 1 I	INB250	Foundations of Computer Science	INB374	Enterprise Software Architecture
INB270 Programming INB271 The Web INB272 Interaction Design INB272 Interaction Design INB272 Interaction Design INB273 Interaction Design INB274 Special Topic 2 IT Specialisation Option Unit List IT Specialisation 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: INB305 Systems Programming INB306 Project 3 INB305 Cryptology and Protocols Systems Programming INB321 Business Process Modelling INB322 Information Systems Consulting INB323 Project Management Practice 2. DATA WAREHOUSING: Year 1, Semester 1 INB340 Database Design INB341 Software Development With Oracle INB342 Enterprise Data Mining and Data Analysis INB343 Advanced Data Mining and Data Analysis INB344 Search Engine Technology 3. DIGITAL ENVIRONMENTS: INB345 Mobile Devices INB346 Enterprise 2.0 SCB112 Celluar Basis of Life INB347 Web 2.0 Applications INB348 Management Practice Year 2, Semester 1 Science Concepts and Global Systems INB347 Web 2.0 Applications INB348 Project A INB349 Project Management Practice Year 2, Semester 1 Science Concepts and Global Systems INB347 Project Management Practice MAB101 Statistical Data Analysis 1 Information Resources MAB101 Statistical Data Analysis 1 Fither INB335 Information Resources MAB105 Preparatory Mathematics Year 2, Semester 2 INB340 Project Management Practice Project Management Practice MAB105 Preparatory Mathematics Year 2, Semester 2 INB341 Project Management Practice	INB251	Networks	INB385	Multimedia Systems
INB271 The Web INB272 Interaction Design INB272 Interaction Design INB273 Interaction Design INB274 Special Topic 1 INB275 Special Topic 2 IT Specialisation Option Unit List IT Specialisation Option Units You must complete four (4) units from the following list. Please ensure you have completed an iminimum 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 INB321 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 INB348 Project Management INB349 Project Management Practice INB340 Project Management Practice INB341 Software Development With Oracle INB342 Enterprise Data Mining and Data Warehousing INB343 Advanced Data Mining and Data Warehousing INB346 Enterprise 2.0 INB347 Web 2.0 Applications INB348 Project Management Practice INB349 Project Management Practice INB340 Project Management Practice INB341 Project Management Practice INB342 Project Management Practice INB343 Project Management Practice INB344 Project Management Practice INB345 Project Management Practice INB346 Project Management Practice INB347 Project Management Practice INB348 Project Management Practice INB349 Project Management Practice INB340 Project Management Practice INB341 Project Management Practice	INB255	Security	INB386	Advanced Multimedia Systems
INB272 Interaction Design INB275 Special Topic 2 IT Specialisation Option Unit List IT Specialisation 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. I. BUSINESS PROCESS MANAGEMENT: INB320 Business Process Modelling INB321 Business Process Modelling INB322 Information Systems Consulting INB323 Project Management Practice 2. DATA WAREHOUSING: INB341 Software Development With Oracle INB342 Enterprise Data Mining and Data Analysis INB343 Advanced Data Mining and Data Analysis INB344 Search Engine Technology 3. DIGITAL ENVIRONMENTS: INB345 Mobile Devices INB346 Enterprise 2.0 INB347 Web 2.0 Applications INB347 Web 2.0 Applications INB348 Project Information Resources INB349 Project Management Practice 4. ENTERPRISE SYSTEMS: INB341 Enterprise Systems INB341 Enterprise Systems INB341 Fending Management INB342 Project Management Practice INB343 Project Management Practice INB344 Page Analysis INB345 Project Management Practice INB346 Enterprise 2.0 INB347 Web 2.0 Applications INB348 Project Management Practice INB349 Project Management Practice INB340 Project Management INB341 Project Management INB341 Project Management Practice INB342 Project Management Practice INB345 Project Management Practice INB346 Project Management INB347 Project Management Practice INB348 Project January Project Management INB349 Project Management Practice INB340 Project Management INB341 Project Management INB342 Project Analysis Applications INB345 Projec	INB270	Programming	8.	UNGROUPED:
IT Specialisation Option Unit List INB304 Special Topic 3 INB305 Special Topic 4 INB306 Project 1 INB307 Project 1 INB307 Project 2 INB308 Project 3 INB309 Project 3 INB309 Project 3 INB301 INB301 Project 3 INB301 INB302 Systems Programming INB301 INB305 Systems Programming INB301 INB305 Systems Programming INB301 INB301 Modelling and Animation Techniques INB302 Business Process Management INB302 Business Process Management INB302 Information Systems Consulting INB311 Project Management Practice 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 INB348 Enterprise Systems INB349 Project Management Practice INB340 Project Management Practice INB341 Search Engine Technology 3. DIGITAL ENVIRONMENTS: INB345 Mobile Devices INB346 Enterprise Systems INB347 Web 2.0 Applications INB348 Enterprise Systems INB349 Project Management Practice INB340 Project Management Practice INB341 Project Management Practice INB342 Project Management Practice INB343 Project Management Practice INB344 Project Management Practice INB345 Project Management Practice INB346 Project Management Practice INB347 Project Management Practice INB348 Project Management Practice INB349 Project Management Practice INB340 Project Management Practice INB341 Project Management Practice	INB271	The Web	INB204	Special Topic 1
IT Specialist Option Units Four 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. INB308	INB272	Interaction Design	INB205	Special Topic 2
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 17 Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies. 1. BUSINESS PROCESS MANAGEMENT: INB365 Cryptology and Protocols INB365 Systems Programming INB361 Modelling and Animation Techniques INB382 Real Time Rendering Techniques INB382 Information Systems Consulting INB382 Information Systems Consulting INB341 Software Development With Oracle SCB111 Chemistry	IT Speciali	isation Ontion Unit List	INB304	Special Topic 3
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 INB323 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 INB348 Project 3 INB349 Project 3 INB365 Cryptology and Protocols INB365 Systems Programming INB381 Modelling and Animation Techniques INB382 Real Time Rendering Techniques INB380 Computational Intelligence for Control and Embedded Systems INB380 Computational Intelligence for Control and Embedded Systems INB380 Course structure - Major in Biochemistry Formation Project 3 INB365 Systems Systems Computational Intelligence for Control and Embedded Systems INB382 Real Time Rendering Techniques INB385 Cryptology and Protocols INB385 Cryptology and Protocols INB385 Cryptology and Protocols INB385 Cryptology and Protocols INB386 Project 3 INB365 Systems Project Systems Project Systems InB388 Project Systems INB381 Modelling in Modelling InBiogov INB30	Tr opeoidii		INB305	Special Topic 4
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: INB365 Systems Programming INB361 Modelling and Animation Techniques INB362 Business Process Modelling INB382 Real Time Rendering Techniques INB322 Information Systems Consulting INB860 Computational Intelligence for Control and Embedded Systems INB322 Project Management Practice 2. DATA WAREHOUSING: Year 1, Semester 1 INB340 Database Design SCB111 Chemistry 1 INB341 Software Development With Oracle INB342 Enterprise Data Mining and Data Analysis Advanced Data Mining and Data Warehousing INB344 Search Engine Technology SCB121 Chemistry 2 3. DIGITAL ENVIRONMENTS: Year 2, Semester 1 INB345 Mobile Devices Year 2, Semester 1 INB346 Enterprise 2.0 SCB10 Science Concepts and Global Systems Either INB347 Web 2.0 Applications Either INB348 Information Resources MAB101 Statistical Data Analysis 1 INB349 Project 3 INB355 Cryptology and Protocols Cryptology and Protocols Cryptology and Protocols INB365 Systems Programming InB355 Cryptology and Protocols InB365 Systems Programming InB365 Cryptology Adalance Data Animation Project Ana	IT Speciali	ist Option Units	INB306	Project 1
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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: INB381 Modelling and Animation Techniques INB382 Real Time Rendering Techniques INB382 Real Time Rendering Techniques INB382 Information Systems Consulting INB382 Real Time Rendering Techniques INB382 Information Systems Consulting Information Systems Consulting Information Systems Consulting INB384 Project Management Practice 2. DATA WAREHOUSING: Year 1, Semester 1 INB340 Database Design SCB111 Chemistry 1 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 Year 2, Semester 1 INB346 Enterprise 2.0 SCB110 Science Concepts and Global Systems INB347 Web 2.0 Applications Either Information Resources MAB101 Statistical Data Analysis 1 INB348 Project Management Practice MAB105 Preparatory Mathematics INB321 Technology Management Practice INB321 Technology Management Year 2, Semester 2 INB331 Enterprise Systems SCB122 Cell and Molecular Biology		following list. Please ensure you have completed a minimum of 36 credit points (3	INB308	Project 3
grouped in areas to assist you in focusing your studies. I. BUSINESS PROCESS MANAGEMENT: INB382 Business Process Modelling INB382 Business Process Modelling INB382 Business Process Modelling INB382 Information Systems Consulting INB322 Information Systems Consulting INB343 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 INB347 Web 2.0 Applications INB348 Information Resources INB349 Project Management Practice INB340 Project Management Practice INB341 Project Management Practice INB342 Project Management Practice INB343 Project Management INB344 Project Management INB345 Project Management INB346 Preparatory Mathematics INB347 Project Management INB348 Project Management INB349 Project Management INB340 Project Management INB341 Enterprise Systems INB341 Modelling and Animation Techniques INB382 Real Time Rendering Techniques INB382 Courtsestructure - Major in Biochemistry Course structure - Major in Bioche		units) of IT Breadth Option Units before	INB355	Cryptology and Protocols
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INB322 Information Systems Consulting INB123 Project Management Practice 2. DATA WAREHOUSING: Year 1, Semester 1 INB340 Database Design SCB111 Chemistry 1 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 Year 2, Semester 1 INB346 Enterprise 2.0 SCB110 Science Concepts and Global Systems INB347 Web 2.0 Applications INB348 Information Resources 4. ENTERPRISE SYSTEMS: INB123 Project Management Practice INB321 Technology Management INB321 Enterprise Systems Course structure - Major in Biochemistry Year 1, Semester 1 Cellular Basis of Life Year 1, Semester 2 (Life Sciences Pre-Major Strand) SCB120 Plant and Animal Physiology SCB121 Chemistry 2 SCB121 Chemistry 2 Web 2.0 Applications INB101 Statistical Data Analysis 1 Or MAB101 Statistical Data Analysis 1 Or WAB105 Preparatory Mathematics Year 2, Semester 2 SCB122 Cell and Molecular Biology			INB860	Computational Intelligence for Control and
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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 INB335 Information Resources INB336 Project Management Practice INB221 Technology Management INB321 Enterprise Systems INB331 Chemistry 2 INB335 Information Resources INB336 Project Management Practice INB377 MAB105 Preparatory Mathematics INB388 Year 1, Semester 2 (Life Sciences Pre-Major Strand) INB480 Plant and Animal Physiology INB49 Plant and Animal Physiology INB40 Pla		· · · · · · · · · · · · · · · · · · ·	Course str	ructure - Major in Biochemistry
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 INB335 Information Resources INB336 Project Management Practice INB221 Technology Management INB321 Enterprise Systems INB331 Chemistry 1 Year 1, Semester 2 (Life Sciences Pre-Major Strand) Year 2, Semester 1 SCB120 Plant and Animal Physiology SCB121 Chemistry 2 Year 2, Semester 1 SCB120 Science Concepts and Global Systems Either MAB101 Statistical Data Analysis 1 Or INB103 Project Management Practice INB204 Technology Management Year 2, Semester 2 SCB122 Cell and Molecular Biology				
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INB343 Advanced Data Mining and Data Warehousing INB344 Search Engine Technology 3. DIGITAL ENVIRONMENTS: INB345 Mobile Devices Year 2, Semester 1 INB346 Enterprise 2.0 SCB110 Science Concepts and Global Systems INB347 Web 2.0 Applications INB335 Information Resources MAB101 Statistical Data Analysis 1 4. ENTERPRISE SYSTEMS: Or INB123 Project Management Practice MAB105 Preparatory Mathematics INB221 Technology Management INB311 Enterprise Systems 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		-	Year 1, Se	emester 2 (Life Sciences Pre-Major Strand)
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INB335 Information Resources 4. ENTERPRISE SYSTEMS: INB123 Project Management Practice INB221 Technology Management INB311 Enterprise Systems MAB101 Statistical Data Analysis 1 Or MAB105 Preparatory Mathematics Year 2, Semester 2 SCB122 Cell and Molecular Biology		•	SCB110	
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INB221 Technology Management Year 2, Semester 2 SCB122 Cell and Molecular Biology				
INB311 Enterprise Systems Year 2, Semester 2 SCB122 Cell and Molecular Biology		-	MAB105	Preparatory Mathematics
INB311 Enterprise Systems SCB122 Cell and Molecular Biology			Year 2. Se	mester 2
INB312 Enterprise Systems Applications				
	INB312	Enterprise Systems Applications		5,

SCB123 **Physical Science Applications** Select TWO units from: LQB682 Protein Biochemistry and Bioengineering Year 3, Semester 1 **LQB684** Medical Biotechnology LQB381 Biochemistry: Structure and Function LQB685 Plant Microbe Interactions LQB383 Molecular and Cellular Regulation Course structure - Major in Chemistry Year 3, Semester 2 LQB481 Biochemical Pathways and Metabolism Year 1, Semester 1 LQB483 Molecular Biology Techniques **SCB111** Chemistry 1 Either Year 4, Semester 1 MAB101 Statistical Data Analysis 1 LQB581 **Functional Biochemistry LQB582** Biomedical Research Technologies MAB105 **Preparatory Mathematics** Year 4, Semester 2 Year 1, Semester 2 (Chemistry Pre-Major Strand) LQB681 **Biochemical Research Skills SCB112** Cellular Basis of Life LQB682 Protein Biochemistry and Bioengineering SCB121 Chemistry 2 Course structure - Major in Biotechnology Year 2, Semester 1 Year 1, Semester 1 MAB120 Algebra and Calculus Chemistry 1 SCB111 **SCB110** Science Concepts and Global Systems SCB112 Cellular Basis of Life Year 2, Semester 2 Year 1, Semester 2 (Life Sciences Pre-Major Strand) SCB123 Physical Science Applications SCB120 Plant and Animal Physiology **SCB131 Experimental Chemistry** SCB121 Chemistry 2 Year 3, Semester 1 Year 2, Semester 1 PQB312 Analytical Chemistry For Scientists and Technologists SCB110 Science Concepts and Global Systems **PQB331** Structure and Bonding MAB101 Statistical Data Analysis 1 Year 3, Semester 2 Or PQB401 Reaction Kinetics, Thermodynamics and Mechanisms MAB105 **Preparatory Mathematics** PQB442 Chemical Spectroscopy Year 2, Semester 2 Year 4, Semester 1 SCB122 Cell and Molecular Biology **PQB502** Advanced Physical Chemistry SCB123 **Physical Science Applications PQB531** Organic Mechanisms and Synthesis Year 3, Semester 1 Year 4, Semester 2 LQB381 Biochemistry: Structure and Function **PQB631** Advanced Inorganic Chemistry LQB383 Molecular and Cellular Regulation **PQB642** Chemical Research Year 3, Semester 2 Course structure - Major in Ecology LQB483 Molecular Biology Techniques LQB484 Introduction to Genomics and Bioinformatics Year 1, Semester 1 SCB111 Chemistry 1 Year 4, Semester 1 **SCB112** Cellular Basis of Life Select TWO units from: LQB583 Genetic Research Technology Year 1, Semester 2 (Ecology and Environmental Science LQB584 Medical Cell Biology Pre-Major Strand) **LQB585** Plant Genetic Manipulation SCB120 Plant and Animal Physiology **SCB122** Cell and Molecular Biology Year 4, Semester 2

Year 2, Semester 1 Year 3, Semester 2 SCB110 Science Concepts and Global Systems **NQB403** Soils and the Environment Either **NQB421 Experimental Design** MAB101 Statistical Data Analysis 1 Year 4, Semester 1 NQB501 **Environmental Modelling** MAB105 **Preparatory Mathematics** Field Methods in Natural Resource Sciences **NQB502** Year 2, Semester 2 Year 4, Semester 2 NQB201 Planet Earth Sustainable Environmental Management **NQB601** History of Life on Earth **NQB202 NQB602 Environmental Chemistry** Year 3, Semester 1 Course structure - Major in Forensic Science **NQB302** Earth Surface Systems NQB321 Year 1, Semester 1 **Ecology SCB111** Chemistry 1 Year 3, Semester 2 SCB112 Cellular Basis of Life NQB421 **Experimental Design** NQB422 Genetics and Evolution Year 1, Semester 2 (Forensic Science Pre-Major Strand) SCB121 Chemistry 2 Year 4. Semester 1 SCB122 Cell and Molecular Biology **NQB521** Population Genetics and Molecular Ecology **NQB523** Population Management Year 2, Semester 1 **SCB110** Science Concepts and Global Systems Year 4, Semester 2 Either NQB622 Conservation Biology MAB101 Statistical Data Analysis 1 NQB623 **Ecological Systems** Course structure - Major in Environmental Science MAB105 **Preparatory Mathematics** Year 1, Semester 1 Year 2, Semester 2 SCB111 **SCB123** Physical Science Applications Chemistry 1 SCB112 Cellular Basis of Life **SCB131 Experimental Chemistry** Year 1, Semester 2 (Ecology and Environmental Science Year 3, Semester 1 Pre-Major Strand) LQB383 Molecular and Cellular Regulation SCB120 Plant and Animal Physiology SCB384 Forensic Sciences - From Crime Scene to Court SCB121 Chemistry 2 Year 3, Semester 2 Year 2, Semester 1 JSB979 Forensic Scientific Evidence SCB110 Science Concepts and Global Systems Analytical Chemistry For Scientists and **PQB312 Technologists** MAB101 Statistical Data Analysis 1 Year 4, Semester 1 MAB105 PQB513 **Preparatory Mathematics** Instrumental Analysis **PQB584** Forensic Physical Evidence Year 2, Semester 2 **NQB202** History of Life on Earth Year 4, Semester 2 **Physical Science Applications** SCB123 LQB680 Forensic DNA Profiling **PQB684** Forensic Analysis Year 3. Semester 1 Course structure - Major in Geoscience **NQB302** Earth Surface Systems

Year 1, Semester 1

NQB321

Ecology

SCB111 Chemistry 1 **SCB123 Physical Science Applications** SCB112 Cellular Basis of Life Year 3, Semester 1 Year 1, Semester 2 (Geoscience Pre-Major Strand) LQB381 Biochemistry: Structure and Function Microbial Structure and Function **NQB201** Planet Earth **LQB386** SCB123 **Physical Science Applications** Year 3, Semester 2 Year 2, Semester 1 LQB483 Molecular Biology Techniques SCB110 Science Concepts and Global Systems **LQB486** Clinical Microbiology 1 Either Year 4, Semester 1 MAB101 Statistical Data Analysis 1 **LQB586** Clinical Microbiology 2 **LQB587** Applied Microbiology 1: Water, Air and Soil MAB105 **Preparatory Mathematics** Year 4, Semester 2 Year 2, Semester 2 **LQB686** Microbial Technology and Immunology NQB202 History of Life on Earth **LQB687** Applied Microbiology 2: Food and Quality **SCB222** Exploration of the Universe Assurance Year 3, Semester 1 Course structure - Major in Physics **NQB311** Mineralogy Year 1, Semester 1 **NQB314** Sedimentary Geology MAB121 Calculus and Differential Equations Year 3, Semester 2 NQB411 Petrology of Igneous and Metamorphic Rocks MAB120 Algebra and Calculus **NQB412** Structural Geology and Field Methods **SCB111** Chemistry 1 Students who have completed only Maths B Year 4, Semester 1 are required to take MAB120. Students who have completed both Maths B and Maths C **NQB502** Field Methods in Natural Resource Sciences should take MAB121. NQB513 Geophysics Year 1, Semester 2 (Physics Pre-Major Strand) Year 4, Semester 2 MAB122 Algebra and Analytic Geometry **NQB613** Plate Tectonics **PQB250** Mechanics and Electromagnetism **NQB615** Geochemistry Year 2, Semester 1 Course structure - Major in Microbiology **SCB110** Science Concepts and Global Systems Year 1, Semester 1 **SCB112** Cellular Basis of Life **SCB111** Chemistry 1 Year 2, Semester 2 SCB112 Cellular Basis of Life MAB220 Computational Mathematics 1 Year 1, Semester 2 (Life Sciences Pre-Major Strand) SCB120 Plant and Animal Physiology MAB121 Calculus and Differential Equations SCB121 **PQB251** Chemistry 2 Waves and Optics Year 2, Semester 1 Year 3, Semester 1 SCB110 Science Concepts and Global Systems Advanced Calculus MAB311 Either **PQB350** Thermodynamics of Solids and Gases MAB101 Statistical Data Analysis 1 Year 3, Semester 2 Or **PQB450** Energy, Fields and Radiation MAB105 **Preparatory Mathematics** PQB451 Electronics and Instrumentation Year 2, Semester 2 Year 4, Semester 1 SCB122 Cell and Molecular Biology

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 semestei

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:

Science and Technology Coordinator

Richard Thomas

Phone: +61 7 3138 2782

Email: enquiri.scitech@gut.edu.au

Creative Industries Coordinator

Phone +61 7 3138 8114 Fax +61 7 3138 8116

Email: creativeindustries@qut.edu.au

Course structure for students who commenced in 2011

Year 1, Se	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			

Strategic Speech Communication

KKB102	Creative	Industrias:	Making	Connections
NND IUZ	Creative	muusmes.	IVIAKITIQ	Connections

Year 2, Semester 1

INB104

KCB103

IT Breadth Option Unit IT Breadth Option Unit

Building IT Systems

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

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

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

KDB103

KDB225

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.

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

Music Theatre Skills

Dance Technique Studies 1

*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 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

Either KCB104 or KPB110: **SELECT**

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

Unspeakable Beauty: A History of Fashion and **KFB106**

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.

VID101	Vieual Communicati	on
KIB101	Visual Communicati	on

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

Either KFB205 or KJB280: SELECT

KFB205 Fashion and Style Journalism

KJB280 International Journalism

KCB301 Media Audiences

Political Communication KCB302

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.

Introduction To Literary Studies **KWB108**

KWB109 Writing Australia

KWB206 Youth and Children's Writing

	FACULTY OF SCIENC	CE AND	TECHNOLOGY	
KWB207 Great Books: Creative Writing Classics			You must complete four (4) units from the	
KWB208	Modern Times (Literature and Culture in the 20th Century)		following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.	
KWB209	Shakespeare, Then and Now	INB120	Corporate Systems	
KWB210	Imagining the Americas: Contemporary American Literature and Culture	INB210	Databases	
KWB308	Wonderlands: Literature and Culture in the	INB220	Business Analysis	
IXVID500	19th Century	INB250	Foundations of Computer Science	
KWB309	Popular Fictions, Popular Culture	INB251	Networks	
	* KWB210 will be offered for the first time in	INB255	Security	
	semester 1 2012.	INB270	Programming	
Music		INB271	The Web	
	Description: This major aims to impart a broad	INB272	Interaction Design	
understanding of music practice in contemporary social, cultural and economic contexts. It aims to provide students with a		IT Specialisation Option Unit List		
	combination of practical and theoretical skills to support a career in music within administrative,		IT Specialist Option Units	
KDB225	business, or organisational areas. Assumed Knowledge: There is no specific prior knowledge required as a prerequisite to undertaking this major. Music Theatre Skills		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 you	
KMB003	Sex Drugs Rock 'N' Roll		studies.	
KMB004	World Music	1.	BUSINESS PROCESS MANAGEMENT:	
KMB107	Sound, Image, Text	INB320	Business Process Modelling	
KMB119	Music and Sound Production 1	INB321	Business Process Management	
KMB122	Music and Sound Concepts 1	INB322	Information Systems Consulting	
KMB129	Music and Sound Production 2	INB123	Project Management Practice	
KMB132	Music and Sound Concepts 2	2.	DATA WAREHOUSING:	
KMB200	Music Scenes and Subcultures	INB340	Database Design	
KMB301	The Music Industry	INB341	Software Development With Oracle	
	Please note: KKB345 is permitted to count	INB342	Enterprise Data Mining and Data Analysis	
	towards this unit set if completed in 2010 or earlier.	INB343	Advanced Data Mining and Data Warehousing	
Creative Industries Transitions to New Professional Environments Unit Options A maximum of 48 credit points may be taken from the following units:		INB344	Search Engine Technology	
		3.	DIGITAL ENVIRONMENTS:	
		INB345	Mobile Devices	
		INB346	Enterprise 2.0	
		INR347	Web 2.0 Applications	

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

INB347 Web 2.0 Applications **INB335** Information Resources **ENTERPRISE SYSTEMS:** 4. INB123 Project Management Practice INB221 **Technology Management** INB311 Enterprise Systems INB312 **Enterprise Systems Applications NETWORK SYSTEMS:** 5. INB350 Internet Protocols and Services INB351 Unix Network Administration INB352 **Network Planning** INB353 Wireless and Mobile Networks SOFTWARE ENGINEERING: 6. 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

UNGROUPED: INB204 Special Topic 1 **INB205** Special Topic 2 Special Topic 3 **INB304** Special Topic 4 **INB305 INB306** Project 1

INB307 Project 2 Project 3 **INB308**

INB355 Cryptology and Protocols Systems Programming **INB365**

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 InsightsINB104 Building IT SystemsMAB210 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

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
Statistical Modelling 1

Level 2 or 3 Maths Unit

Year 3, Semester 1

MAB210

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

LCVCI O OIII	is at least 4 anits 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 0	

IT Specialisation Option Unit List

ΙT	S	peciali	st O	ption	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.

BUSINESS PROCESS MANAGEMENT:

INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
1110040	D D .

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 Technology3. DIGITAL ENVIRONMENTS:

INB345 Mobile Devices
 INB346 Enterprise 2.0
 INB347 Web 2.0 Applications
 INB335 Information Resources
 4. ENTERPRISE SYSTEMS:

INB123 Project Management PracticeINB221 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 DevelopmentINB374 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 ProtocolsINB365 Systems Programming

INB381 Modelling and Animation TechniquesINB382 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

IT Capstone Project INB302

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**

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INB341	Software Development With Oracle	BSB110	Accounting
INB342	Enterprise Data Mining and Data Analysis	BSB115	Management
INB343	Advanced Data Mining and Data Warehousing		Information Technology unit
INB344	Search Engine Technology		Information Technology unit
3.	DIGITAL ENVIRONMENTS:		3,
INB345	Mobile Devices	Year 1, Se	emester 2
INB346	Enterprise 2.0	BSB123	Data Analysis
INB347	Web 2.0 Applications	BSB126	Marketing
INB335	Information Resources		Information Technology unit
4.	ENTERPRISE SYSTEMS:		Information Technology unit
INB123	Project Management Practice	V 0.0	
INB221	Technology Management	Year 2, Se	
INB311	Enterprise Systems		Accountancy students MUST choose INB120 as one of their IT Breadth Options to meet
INB312	Enterprise Systems Applications		professional recognition requirements
5.	NETWORK SYSTEMS:	BSB111	Business Law and Ethics
INB350	Internet Protocols and Services	BSB113	Economics
INB351	Unix Network Administration		Information Technology unit
INB352	Network Planning		Information Technology unit
INB353	Wireless and Mobile Networks	Year 2, Se	emester 2
6.	SOFTWARE ENGINEERING:	AYB200	Financial Accounting
INB370	Software Development	AYB225	Management Accounting
INB371	Data Structures and Algorithms		Information Technology unit
INB372	Agile Software Development		Information Technology unit
INB374	Enterprise Software Architecture		
7.	WEB TECHNOLOGIES:	Year 3, Se	
INB313	Electronic Commerce Site Development	EFB210	Finance 1 Taxation Law
INB373	Web Application Development	AYB219	
INB374	Enterprise Software Architecture		Information Technology unit
INB385	Multimedia Systems		Information Technology unit
INB386	Advanced Multimedia Systems	Year 3, Semester 2	
8.	UNGROUPED:	AYB230	Corporations Law
INB204	Special Topic 1	AYB340	Company Accounting
INB205	Special Topic 2		Information Technology unit
INB304	Special Topic 3		Information Technology unit
INB305	Special Topic 4	Year 4, Se	emester 1
INB306	Project 1	AYB311	Financial Accounting Issues
INB307	Project 2	AYB321	Strategic Management Accounting
INB308	Project 3	711 0021	Information Technology unit
INB355	Cryptology and Protocols		Information Technology unit
INB365	Systems Programming		miorination roomiology and
INB381	Modelling and Animation Techniques	Year 4, Se	emester 2
INB382	Real Time Rendering Techniques	AYB301	Audit and Assurance
INB860	Computational Intelligence for Control and Embedded Systems	AYB339	Accountancy Capstone
			Information Technology unit
IX58 - Business component (Accountancy) - course structure			Information Technology unit
an acture		IX58 - Bus	siness component (Advertising) - course
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structure

Year 1, Semester 1

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

	FACULTY OF SCIEN	
INB313	Electronic Commerce Site Development	
JSB271	Policy Governance and Justice	
	Justice Study Area A Unit from list below (Criminology or Policing)	
Year 3, Ser	nester 1	
INB220	Business Analysis	
INB221	Technology Management	
JSB371	Indigenous Justice	
	Justice Study Area A Unit from list below (Criminology or Policing)	
Year 3, Ser	nester 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, Ser	nester 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, Ser	nester 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:		
	Channe sight from the fell	

Choose eight from the following:

Policing Diversity

JSB257

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.gut.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

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 PracticePLUS: IX62 Complementary Studies unit

Year 2, Semester 1

Business Unit Business Unit Impact of IT

INB122 Organisational Databases

Year 2, Semester 2

INB101

Business Unit Business Unit

INB124 Information Systems DevelopmentINB313 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

	FACULTY OF SCIENC	E AND	TECHNOLOGY
Year 2 Ser	nester 1	EFB102	now retitled EFB223 Economics 2
BSB110	Accounting	EFB202	is replaced by EFB330 Intermediate
BSB111	Business Law and Ethics	EED044	Macroeconomics
Year 2 Semester 2		EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB222	Quantitative Methods For Economics and Finance	EFB314	is replaced by EFB336 International Economics
EFB210	Finance 1	EFB329	is now EFB338 Contemporary Application of Economic
Year 3 Ser	nester 1	Electronic	Business Core units
EFB200	Applied Regression Analysis	BSB212	is replaced by AYB114 Business Technologies
EFB201	Financial Markets	BSB213	is replaced by AYB115 Governance Issus and
Year 3 Ser	mostor 2		Fraud
EFB307	Finance 2	BSB314	is replaced by Forensic and Business Intelligence
EFB223	Economics 2	ITB233	is now INB312 Enterprise Systems Application
BSB126	Marketing	ITB823	is now INB830 Web Sites for E-Commerce
Year 4 Ser	nester 1	ITB239	is now INB342 Enterprise Data Mining
EFB335	Investments	Human Re	source Management Core units
	Any Banking and Finance Unit	MGB220	now retitled MGB220 Business Research Methods
Year 4 Ser	mester 2	MGB221	is now MGB339 Performance and Reward
EFB312	International Finance		10.
Important I	nformation for Business Students		al Business Core units
		IBB202	is replaced by EFB240 Finance for International Business
Course Updates - List of re-coded and replacement Business units		IBB208	IBB208 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
Faculty Core units		IBB210	is now replaced by AMB210 Importing and
BSB114	is replaced by BSB124 Working in Business	IDDO40	Exporting
BSB115	now retitled BSB115 Management	IBB213	is now AMB336 International Marketing
BSB119 BSB122	now retitled BSB119 Global Business is replaced by BSB123 Data Analysis	IBB217	IBB217 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
Accountant	cy Core units	IBB300	is now AMB369 International Business
AYB121	is now AYB200 Financial Accounting AYB121	IDDOOO	Strategy
AYB220	is now AYB340 Company Accounting AYB220	IBB308	is replaced by MGB340 International Business in the Asia-Pacific
AYB301	now retitled AYB301 Audit and Assurance		
• • • • •			ent Core units
	G Core units	MGB310	Sustainability in a Changing Environment was formerly known as MGB212 and MGB334
AMB221	is now AMB318 Advertising Copywriting	Mantentina	Comp. vinite
AMB222	is now AMB319 Media Planning	Marketing	
AMB321	is now AMB339 Advertising Campaigns	AMB241 AMB341	is now AMB335 E-Marketing Strategies is now AMB359 Strategic Marketing
Banking and Finance Core units		AIVID34 I	is now Alviboos Strategic Marketing
EFB101	is replaced by EFB222 Quantitative Methods for Economics and Finance		ations Core units
EFB102	now retitled EFB223 Economics 2	AMB260	is replaced by AMB263 Introduction to Public Relations
Economics	Core units	AMB360	is replaced by AMB373 Corporate Communication
EFB101	is replaced by EFB222 Quantitative Methods for Economics and Finance	AMB361	is replaced by AMB379 Public Relations Campaigns

	FACULTY OF SCIENC	CE AND	TECHNOLOGY
Business L	aw and Tax Extended Major (BLX)		formerly known as MGB212 and MGB334
AYB223	replaced by AYB230 Corporations Law	Internation	al Business Extended Major (IBX)
AYB325 AYB305	is now AYB219 Taxation Law	IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
ATDOUD	is replaced by AYB205 Law of Business Entities	IBB303	is now AMB303 International Logistics
AYB312	is now AYB232 Financial Institutions	AMB230	now retitled AMB230 Digital Promotions
Professiona	al Accounting Extended Major (PAX)	IBB312	is replaced by AMB300 Independent Project 1
AYB223	is replaced by AYB230 Corporations Law	Manageme	ent Extended Major (MNX)
AYB325	is now AYB219 Taxation Law	IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
Advertising	Extended Major (ADX)	MGB218	is now MGB324 Managing Business Growth
AMB230	now retitled AMB230 Digital Promotions	MGB315	is now MGB370 Personal & Professional
AMB330	now retitled AMB330 Advertising Planning Portfolio		Development
		IBB210	is replaced by AMB210 Import and Exporting
	tended Major (BFX)	IBB303	is now AMB303 International Logistics
AYB312	is now AYB232 Financial Institutions Law	Marketing	Extended Major (MKX)
EFB200	is replaced by EFB333 Introductory Econometrics	AMB251	now retitled AMB251 Innovation and Brand Management
EFB318	is replaced by EFB335 Investments	AMB260	is replaced by AMB263 Introduction to Public Relations
Financial E	conomics Extended Major (FEX) (for Banking & udents)	AMB351	is now AMB209 Tourism Marketing
EFB200	is replaced by EFB333 Introductory Econometrics	AMB352	is replaced by AMB252 Business Decision Making
EFB202	is replaced by EFB330 Intermediate	AMB354	is now AMB208 Events Marketing
	Macroeconomics	IBB213	is now AMB336 International Marketing
EFB211	is replaced by EFB331 Intermediate Microeconomics	IBB303	is now AMB303 International Logistics
EFB325	is replaced by EFB336 International	Public Rela	ations Extended Major (PRX)
EFB318	Economics is replaced by EFB335 Investments	AMB370	is replaced by AMB374 Global Public Relations Cases
EFB324	is replaced by EFB337 Game Theory and Applications	AMB371	is replaced by AMB375 Public Relations Management
Financial Economics Extended Major (FEX) (for Economics Business Law and Tax Specialisation (BLS)		aw and Tax Specialisation (BLS)	
Students)	, , , ,	AYB223	is replaced by AYB230 Corporations Law
EFB200	is replaced by EFB333 Introductory Econometrics	AYB325	is now AYB219 Taxation Law
EFB324	is replaced by EFB201 Financial Markets	AYB305	is now AYB205 Company Law & Practice
EFB325	is replaced by EFB337 Game Theory and	AYB312	is now AYB232 Financial Institutions Law
LI D323	Applications	BSB213	is now AYB115 Governance Issues in E- Business
Funds Man	agement Extended Major (FDX)	Clastus via	Pusings Cracialization (FUC)
EFB318	is replaced by EFB335 Investments		Business Specialisation (EUS)
AYB312	is now AYB232 Financial Institutions Law	BSB212 BSB213	is replaced by AYB114 Business Technologies
EFB200	is replaced by EFB333 Introductory Econometrics		is replaced by AYB115 Governance Issues and Fraud
Human Re	source Management Extended Major (HRX)	BSB314	is replaced by AYB341 Forensic and Business Intelligence
MGB315	is now MGB370 Personal and Professional Development	ITB233	is now INB312 Enterprise Systems Applications
IBB205	is now MGB225 Intercultural Communication	ITB823	is now INB830 Web Sites for E-Commerce
	and Negotiation Skills	ITB239	is now INB342 Enterprise Data Mining

MGB310 Sustainability in a Changing Environment was

	FACULTY OF SCIEN	CE AND) TECHNOLOGY
Financial I	Economics Specialisation (FES)		
EFB102	is replaced by EFB223 Economics 2	IT Breadtl	h Option Units
EFB202	is replaced by EFB330 Intermediate Macroeconomics		You must complete four (4) units from the following list. You should not commence these units until you have completed INB101,
EFB211	is replaced by EFB331 Intermediate Microeconomics	INB120	INB102, INB103 and INB104. Corporate Systems
EFB329	is now 338 Contemporary Applications of Economics	INB120 INB210	Databases
EFB314	is replaced by EB336 International Economics	INB220	Business Analysis
EFB324	is replaced by EFB201 Financial Markets	INB250	Foundations of Computer Science
EFB325	is replaced by EFB337 Game Theory and	INB251	Networks
L1 B020	Applications	INB255	Security
Intograted	Marketing Communication Specialisation (IMS)	INB270	Programming
	. , , , , , , , , , , , , , , , , , , ,	INB271	The Web
AMB260	is replaced by AMB263 Introduction to Public Relations	INB272	Interaction Design
AMB230	now retitled AMB230 Digital Promotions	IT Specia	lisation Option Unit List
AMB354	is now AMB208 Events Marketing		·
Internation	nal Logistics Specialisation (ILG)	IT Specia	list Option Units
IBB303	is now AMB303 International Logistics	ı	You must complete four (4) units from the following list. Please ensure you have
BSB314	is replaced by AYB341 Forensic and Business		completed a minimum of 36 credit points (3
IBB210	Intelligence		units) of IT Breadth Option Units before commencing these units. The units are
IDDZ IU	is replaced by AMB210 Importing and Exporting		grouped in areas to assist you in focusing your studies.
EFB213	is replaced by AMB252 Business Decision Making (offered Sem 2); OR MGB335 Project	1. INB320	BUSINESS PROCESS MANAGEMENT: Business Process Modelling
	Management (offered Sem 1 & 2)	INB320	Business Process Management
Sales Spe	ecialisation (SALES)	INB321	Information Systems Consulting
AMB230	now retitled AMB230 Digital Promotion	INB123	Project Management Practice
AMB250	is replaced by MGB225 Intercultural	2.	DATA WAREHOUSING:
	Communication and Negotiation Skills	INB340	Database Design
Internation	nal Exchange Specialisation (IEX)	INB341	Software Development With Oracle
IBB205	is now MGB225 Intercultural Communication	INB342	Enterprise Data Mining and Data Analysis
	and Negotiation Skills	INB343	Advanced Data Mining and Data Warehousing
IT - Comp	lementary Study Unit List	INB344	Search Engine Technology
Compleme	entary Study Units: A maximum of 96 credit	3.	DIGITAL ENVIRONMENTS:
	be chosen from:	INB345	Mobile Devices
1.	The list of Breadth and Specialisation units.	INB346	Enterprise 2.0
2.	Students can also choose from the range of CISCO units including INS350, INS351,	INB347 INB335	Web 2.0 Applications Information Resources
	INS352, INS354, INS356 and INS357.	4.	ENTERPRISE SYSTEMS:
3.	Undergraduate units from other IT related	4. INB123	Project Management Practice
	degrees (e.g. INB124, INB180, INB181, INB182, INB280 or INB383).	INB123 INB221	Technology Management
4.	Undergraduate units available with other QUT faculties.	INB311	Enterprise Systems
5.	Enrolment in INB830 or INB870 will NOT be counted towards completion of IT23.	INB312 5.	Enterprise Systems Applications NETWORK SYSTEMS:
NOTE:	A maximum of 48 credit points of Advanced	INB350	Internet Protocols and Services
- · - ·	Standing for professional certifications is	INB351	Unix Network Administration
	permitted towards completion of IT23 (including INS35X CISCO Units).	INB352	Network Planning
IT December		INB353	Wireless and Mobile Networks
II Breadth	Option Unit List	1142000	The state of the s

ENCE AND TECHNOLOGY

	FACULTY OF SCIE
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.gut.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 Animation History and Practices KIB108 **KVB105** Drawing for Design **KVB106 Drawing for Animation** KIB220 **Animation Production** KIB203 Introduction to 3D Computer Graphics Animation: CG Toolkit **KIB221** Character Development, Conceptual Design **KIB225** and Animation Layout **KIB316** Virtual Environments

Real-Time 3D Computer Graphics

Digital Media

KIB325

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

FACULTY OF SCIENCE AND TECHNOLOGY INB210 **Databases BSB124** Working in Business **INB250** Computer Architectures and Systems **BSB119** Global Business **INB370** Software Development Year 2 Semester 2 **INB371** Data Structures and Algorithms AMB200 Consumer Behaviour **INB381** Modelling and Animation Techniques AMB220 Advertising Theory and Practice **INB382** Real Time Rendering Techniques OR Year 3 Semester 1 **INB383** Al for Games AMB201 Marketing and Audience Research **BSB111 Business Law and Ethics Accountancy Major** Year 3 Semester 2 Year 1 Semester 1 AMB318 Advertising Copywriting BSB110 Accounting AMB319 Media Planning **BSB115** Management Year 4 Semester 1 Year 1 Semester 2 AMB320 Advertising Management BSB123 Data Analysis AMB330 Advertising Planning Portfolio BSB126 Marketing Year 4 Semester 2 Year 2 Semester 1 **AMB339** Advertising Campaigns BSB111 **Business Law and Ethics** BSB123 Data Analysis **BSB113 Economics Economics Major** Year 2 Semester 2 **AYB200** Financial Accounting Year 1 Semester 1 AYB225 Management Accounting **BSB113 Economics BSB115** Management Year 3 Semester 1 EFB210 Year 1 Semester 2 Finance 1 **AYB221** Computerised Accounting Systems **BSB124** Working in Business BSB123 **Data Analysis** Year 3 Semester 2 **AYB219 Taxation Law** Year 2 Semester 1 AYB340 Company Accounting BSB110 Accounting **BSB111 Business Law and Ethics** Year 4 Semester 1 **AYB230** Corporations Law Year 2 Semester 2 **EFB222** Quantitative Methods For Economics and AYB321 Strategic Management Accounting Finance Year 4 Semester 2 **EFB223 Economics 2** Audit and Assurance **AYB301** Year 3 Semester 1 **AYB311** Financial Accounting Issues **EFB330** Intermediate Macroeconomics

Advertising Major

Year 1 Semester 1

BSB126 Marketing BSB113 Economics

Year 1 Semester 2

BSB110 Accounting BSB115 Management

Year 2 Semester 1

Year 3 Semester 2

Choice units or remaining Business School

Intermediate Microeconomics

Core Units

Choice units or remaining Business School

Core Units

Year 4 Semester 1

EFB331

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 StudiesINB182 Introducing Design

MAB121 Calculus and Differential Equations
MAB122 Algebra and Analytic Geometry

Year 1, Semester 2

INB181 Introduction to Games Production

INB104 Building IT SystemsMAB101 Statistical Data Analysis 1MAB220 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

	FACULTY OF SCIENC
KIB325	Real-Time 3D Computer Graphics
Digital Med	dia
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 Des	sign
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 T	echnologies*
	* 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	Al for Games
Mathemati	cs Units
Level 2 Un	its
MAB311	Advanced Calculus
MAB312	Linear Algebra
MAB313	Mathematics of Finance
MAB314	Statistical Modelling 2
MAB315	Operations Research 2

MAB413

MAB414

MAB420

MAB422

MAB461

Differential Equations

Mathematical Modelling

Discrete Mathematics

Computational Mathematics 2

Applied Statistics 2

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

Phone: +61 7 3138 2782

Email: enquiry.scitech@qut.edu.au

Science Coordinator

Dr Perry Hartfield Phone: +61 7 3138 2984 Email: p.hartfield@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@gut.edu.au

Chemistry

Dr John McMurtrie Phone: +61 7 3138 1220 Email: j.mcmurtrie@gut.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 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 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

INB379

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

FACULTY OF SCIENCE AND TECHNOLOGY **KIB225** Character Development, Conceptual Design Plus either: and Animation Layout MAB101 Statistical Data Analysis 1 **KIB316** Virtual Environments Or **KIB325** Real-Time 3D Computer Graphics MAB105 **Preparatory Mathematics** Digital Media Year 2, Semester 2 **KIB101** Visual Communication **SCB122** Cell and Molecular Biology **KIB102** Visual Interactions **SCB123** Physical Science Applications **INB345** Mobile Devices Year 3, Semester 1 **INB386** Advanced Multimedia Systems LQB381 Biochemistry: Structure and Function **KIB309 Embodied Interactions** Molecular and Cellular Regulation LQB383 **KIB230** Interface and Information Design **INB385** Multimedia Systems Year 3, Semester 2 **KIB314** Tangible Media **LQB481** Biochemical Pathways and Metabolism LQB483 Molecular Biology Techniques Game Design **INB280** Fundamentals of Game Design Year 4, Semester 1 **INB272** Interaction Design LQB581 **Functional Biochemistry KIB201** Concept Development for Game Design and LQB582 Biomedical Research Technologies Interactive Media KIB202 **Enabling Immersion** Year 4, Semester 2 **INB282** Games Level Design **DEB103** Visualisation 1 **INB281** Advanced Game Design KIB214 Design for Interactive Media Software Technologies* tter

	* Requirements for this Major is a SA or bet 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	

INB382	Real Time Rendering Techniques		
OR			
INB383	Al for Games		
Course str	ucture - Major in Biochemistry		
Year 1, Sei	mester 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, Sei	mester 1		
SCB110	Science Concepts and Global Systems		

•				
LQB681	Biochemical Research Skills			
LQB682	Protein Biochemistry and Bioengineering			
Course structure - Major in Biotechnology				
Year 1, Se	emester 1			
SCB111	Chemistry 1			
SCB112	Cellular Basis of Life			
Year 1, Se	emester 2 (Life Sciences Pre-Major Strand)			
SCB120	Plant and Animal Physiology			
SCB121	Chemistry 2			
Year 2, Se	emester 1			
SCB110	Science Concepts and Global Systems			
	Plus either:			
MAB101	Statistical Data Analysis 1			
	Or			
MAB105	Preparatory Mathematics			
Year 2, Se	emester 2			
SCB122	Cell and Molecular Biology			

Molecular and Cellular Regulation

Biochemistry: Structure and Function

Physical Science Applications

SCB123

LQB381

LQB383

Year 3, Semester 1

SCB111 Chemistry 1 Year 4, Semester 1 **SCB112** Cellular Basis of Life TWO units selected from: LQB583 Genetic Research Technology Year 1, Semester 2 (Ecology and Environmental Science **LQB584** Medical Cell Biology Pre-Major Strand) **LQB585** Plant Genetic Manipulation SCB120 Plant and Animal Physiology **SCB122** Cell and Molecular Biology Year 4, Semester 2 TWO units selected from: Year 2, Semester 1 LQB682 Protein Biochemistry and Bioengineering **SCB110** Science Concepts and Global Systems LQB684 Medical Biotechnology Plus either: **LQB685** Plant Microbe Interactions MAB101 Statistical Data Analysis 1 Or Course structure - Major in Chemistry MAB105 **Preparatory Mathematics** Year 1, Semester 1 Year 2, Semester 2 SCB111 Chemistry 1 NQB201 Planet Earth Plus either: **NQB202** History of Life on Earth MAB101 Statistical Data Analysis 1 Or Year 3, Semester 1 MAB105 **Preparatory Mathematics NQB302** Earth Surface Systems **NQB321 Ecology** Year 1, Semester 2 (Chemistry Pre-Major Strand) SCB112 Cellular Basis of Life Year 3, Semester 2 SCB121 Chemistry 2 **NQB421 Experimental Design** NQB422 Genetics and Evolution Year 2, Semester 1 MAB120 Algebra and Calculus Year 4, Semester 1 SCB110 Science Concepts and Global Systems **NQB521** Population Genetics and Molecular Ecology **NQB523** Population Management Year 2, Semester 2 SCB123 **Physical Science Applications** Year 4, Semester 2 **SCB131 Experimental Chemistry NQB622** Conservation Biology **NQB623 Ecological Systems** Year 3, Semester 1 **PQB312** Analytical Chemistry For Scientists and Course structure - Major in Environmental Science Technologists **PQB331** Structure and Bonding Year 1, Semester 1 **SCB111** Chemistry 1 Year 3, Semester 2 SCB112 Cellular Basis of Life **PQB401** Reaction Kinetics, Thermodynamics and Mechanisms Year 1, Semester 2 (Ecology and Environmental Science **PQB442** Chemical Spectroscopy Pre-Major Strand) SCB120 Plant and Animal Physiology Year 4, Semester 1 SCB121 Chemistry 2 PQB502 Advanced Physical Chemistry **PQB531** Organic Mechanisms and Synthesis Year 2, Semester 1 **SCB110** Science Concepts and Global Systems Year 4, Semester 2 Plus either: PQB631 Advanced Inorganic Chemistry MAB101 Statistical Data Analysis 1 **PQB642** Chemical Research Or Course structure - Major in Ecology MAB105 **Preparatory Mathematics** Year 1, Semester 1 Year 2, Semester 2

FACULTY OF SCIENCE AND TECHNOLOGY NQB202 History of Life on Earth Year 4, Semester 2 SCB123 Physical Science Applications **LQB680** Forensic DNA Profiling **PQB684** Forensic Analysis Year 3, Semester 1 NQB302 Earth Surface Systems Course structure - Major in Geoscience NQB321 **Ecology** Year 1, Semester 1 Year 3, Semester 2 SCB111 Chemistry 1 **NQB403** Soils and the Environment **SCB112** Cellular Basis of Life **NQB421 Experimental Design** Year 1, Semester 2 (Geoscience Pre-Major Strand) Year 4, Semester 1 **NQB201** Planet Earth NQB501 **Environmental Modelling SCB123 Physical Science Applications NQB502** Field Methods in Natural Resource Sciences Year 2, Semester 1 Year 4, Semester 2 SCB110 Science Concepts and Global Systems **NQB601** Sustainable Environmental Management Plus either: NQB602 **Environmental Chemistry** MAB101 Statistical Data Analysis 1 Course structure - Major in Forensic Science MAB105 **Preparatory Mathematics** Year 1, Semester 1 Year 2, Semester 2 SCB111 Chemistry 1 **NQB202** History of Life on Earth SCB112 Cellular Basis of Life SCB222 Exploration of the Universe Year 1, Semester 2 (Forensic Science Pre-Major Strand) Year 3, Semester 1 SCB121 Chemistry 2 **NQB311** Mineralogy SCB122 Cell and Molecular Biology **NQB314** Sedimentary Geology Year 2, Semester 1 Year 3. Semester 2 SCB110 Science Concepts and Global Systems **NQB411** Petrology of Igneous and Metamorphic Rocks Plus either: **NQB412** Structural Geology and Field Methods MAB101 Statistical Data Analysis 1 Year 4, Semester 1 MAB105 **Preparatory Mathematics NQB502** Field Methods in Natural Resource Sciences **NQB513** Geophysics Year 2, Semester 2 SCB123 **Physical Science Applications** Year 4, Semester 2 **SCB131 Experimental Chemistry** NQB613 Plate Tectonics **NQB615** Geochemistry Year 3, Semester 1 LQB383 Molecular and Cellular Regulation Course structure - Major in Microbiology SCB384 Forensic Sciences - From Crime Scene to Court Year 1, Semester 1 **SCB111** Chemistry 1 Year 3, Semester 2 **SCB112** Cellular Basis of Life JSB979 Forensic Scientific Evidence Year 1, Semester 2 (Life Sciences Pre-Major Strand)

PQB312 Analytical Chemistry For Scientists and

Technologists

Year 4, Semester 1

PQB513 Instrumental Analysis

PQB584 Forensic Physical Evidence

SCB110

Year 2, Semester 1

SCB120

SCB121

Science Concepts and Global Systems Plus either:

Plant and Animal Physiology

Chemistry 2

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 handson, 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

N	otes
1 /	OLCO

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 Digital Media

KVB105 Drawing for Design

Year 2, Semester 2

KIB104

KIB102

IT Breadth Option Unit IT Breadth Option Unit 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

IVIDOUO

IINDSUZ	11 Capsione Project	
	IT Specialist Option Unit	
KIB322	Design Project	
SELECT	Either KIB314 or KIB338:	
KIB314	Tangible Media	
KIB338	Print Media	

IT Canatana Project

Course structure for students who commenced in 2010

			IT Specialist Option Unit
Notes		KIB315	Contemporary Issues in Digital Media
	From year 2, students are recommended to	SELECT	Either KIB309 or KIB335:
	take one of the following pathways:	KIB309	Embodied Interactions
	* Visual Communication (comprising KIB230, KVB204, KIB335 and KIB338); OR	KIB335	Typography and Illustration
	* Interactive Media Design (comprising KKB216, KIB205, KIB309 and KIB314)	Year 4, Se	emester 2
	, , , , , , , , , , , , , , , , , , ,	INB302	IT Capstone Project
Year 1, Se	emester 1		IT Specialist Option Unit
INB101	Impact of IT	KIB322	Design Project
INB102	Emerging Technology	SELECT	Either KIB314 or KIB338:
KIB103	Introduction to Web Design and Development	KIB314	Tangible Media
KKB101	Creative Industries: People and Practices	KIB338	Print Media
Year 1, Se	emester 2	Course st	ructure for students who commenced in 2009
INB103	Industry Insights		
INB104	Building IT Systems	Notes	
KIB101 KKB102	Visual Communication Creative Industries: Making Connections		From year 2, studentsare recommended to take one of the following pathways:
Year 2, Se	<u> </u>		* Visual Communication (comprising KIB230, KVB204, KIB335 and KIB338); OR
1 Gai 2, 36	IT Breadth Option Unit		* Interactive Media Design (comprising
	IT Breadth Option Unit		KKB216, KIB205, KIB309 and KIB314)
KIB104	Digital Media	Year 1, Se	emester 1
KVB105	Drawing for Design	INB101	Impact of IT
KVD103	Drawing for Design	INB102	Emerging Technology
Year 2, Se	emester 2	KIB101	Visual Communication
	IT Breadth Option Unit IT Breadth Option Unit	KKB101	Creative Industries: People and Practices
KIB102	Visual Interactions	Year 1, Se	emester 2
KIB105	Animation and Motion Graphics	INB103	Industry Insights
1112100	, annuation and thought Craphice	INB104	Building IT Systems
Year 3, Se	emester 1	KIB103	Introduction to Web Design and Development
INB201	Scalable Systems Development	KKB102	Creative Industries: Making Connections
	IT Specialist Option Unit	Year 2, Se	amastar 1
KIB214	Design for Interactive Media	1 Cai 2, Oc	IT Breadth Option Unit
SELECT	Either KIB230 or KKB216:		IT Breadth Option Unit
KIB230	Interface and Information Design	KIB104	Digital Media
KKB216	Graphical Development Environments for Media Interaction	KVB105	Drawing for Design
Year 3, Semester 2		Year 2, Se	emester 2
INB300	Professional Practice in IT	,	IT Breadth Option Unit
	IT Specialist Option Unit		IT Breadth Option Unit
KIB216	Advanced Web Design	KIB102	Visual Interactions
SELECT	Either KIB205 or KVB204:	KIB105	Animation and Motion Graphics
KIB205	Programming for Visual Designers and Artists		
KVB204	Graphic Design	Year 3, Se	emester 1
	· · · ·	INB201	Scalable Systems Development
Year 4, Se	emester 1		IT Specialist Option Unit
INB301	The Business of IT	KIB214	Design for Interactive Media

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
SELECT	Either KIB230 or KKB216:		grouped in areas to assist you in focusing your
KIB230	Interface and Information Design	1.	studies. BUSINESS PROCESS MANAGEMENT:
KKB216	Graphical Development Environments for Media Interaction	INB320	Business Process Modelling
	Media interaction	INB321	Business Process Management
Year 3, Se	emester 2	INB322	Information Systems Consulting
INB300	Professional Practice in IT	INB123	Project Management Practice
	IT Specialist Option Unit	2.	DATA WAREHOUSING:
KIB216	Advanced Web Design	INB340	Database Design
SELECT	Either KIB205 or KVB204:	INB341	Software Development With Oracle
KIB205	Programming for Visual Designers and Artists	INB342	Enterprise Data Mining and Data Analysis
KVB204	Graphic Design	INB343	Advanced Data Mining and Data Warehousing
Year 4, Se	emester 1	INB344	Search Engine Technology
INB301	The Business of IT	3.	DIGITAL ENVIRONMENTS:
	IT Specialist Option Unit	INB345	Mobile Devices
KIB315	Contemporary Issues in Digital Media	INB346	Enterprise 2.0
SELECT	Either KIB309 or KIB335:	INB347	Web 2.0 Applications
KIB309	Embodied Interactions	INB335	Information Resources
KIB335	Typography and Illustration	4.	ENTERPRISE SYSTEMS:
\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 0	INB123	Project Management Practice
Year 4, Se		INB221	Technology Management
INB302	IT Capstone Project	INB311	Enterprise Systems
KIDOOO	IT Specialist Option Unit	INB312	Enterprise Systems Applications
KIB322	Design Project	5.	NETWORK SYSTEMS:
SELECT	Either KIB314 or KIB338:	INB350	Internet Protocols and Services
KIB314	Tangible Media	INB351	Unix Network Administration
KIB338	Print Media	INB352	Network Planning
IT Breadth	n Option Unit List	INB353	Wireless and Mobile Networks
IT Breadth	n Option Units	6.	SOFTWARE ENGINEERING:
TI BIOGGI	You must complete four (4) units from the	INB370	Software Development
	following list. You should not commence these	INB371	Data Structures and Algorithms
	units until you have completed INB101, INB102, INB103 and INB104.	INB372	Agile Software Development
INB120	Corporate Systems	INB374	Enterprise Software Architecture
INB210	Databases	7.	WEB TECHNOLOGIES:
INB220	Business Analysis	INB313	Electronic Commerce Site Development
INB250	Foundations of Computer Science	INB373	Web Application Development
INB251	Networks	INB374	Enterprise Software Architecture
INB255	Security	INB385	Multimedia Systems
INB270	Programming	INB386 8.	Advanced Multimedia Systems UNGROUPED:
INB271	The Web	o. INB204	
INB272	Interaction Design	INB204 INB205	Special Topic 1 Special Topic 2
IT Special	lisation Option Unit List	INB203	Special Topic 3
The openium action of the List		INB304	Special Topic 3 Special Topic 4
IT Special	ist Option Units	INB305 INB306	Project 1
	You must complete four (4) units from the	INB300 INB307	Project 2
	following list. Please ensure you have completed a minimum of 36 credit points (3	INB307 INB308	Project 3
	units) of IT Breadth Option Units before commencing these units. The units are	INB355	Cryptology and Protocols
	Commending these units. The units are	INDUO	Oryptology and intotocols

INB365 Systems Programming

INB381 Modelling and Animation TechniquesINB382 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.gut.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 PQB331 Structure and Bonding Year 2, Semester 1 Year 3, Semester 2 SCB110 Science Concepts and Global Systems **PQB401** Reaction Kinetics, Thermodynamics and Mechanisms **SCB111** Chemistry 1 **PQB442** Chemical Spectroscopy Year 2, Semester 2 Year 4, Semester 1 SCB123 **Physical Science Applications PQB502** Advanced Physical Chemistry SCB121 Chemistry 2 **PQB531** Organic Mechanisms and Synthesis Year 3, Semester 1 Year 4, Semester 2 LQB381 Biochemistry: Structure and Function PQB631 Advanced Inorganic Chemistry LQB383 Molecular and Cellular Regulation **PQB642** Chemical Research Year 3, Semester 2 Course structure - Major in Ecology LQB483 Molecular Biology Techniques **LQB484** Introduction to Genomics and Bioinformatics Year 1, Semester 1 SCB112 Cellular Basis of Life Year 4, Semester 1 Either Select TWO units from: MAB101 Statistical Data Analysis 1 Genetic Research Technology LQB583 Or **LQB584** Medical Cell Biology MAB105 **Preparatory Mathematics** LQB585 Plant Genetic Manipulation Year 1, Semester 2 (Ecology and Environmental Science Year 4, Semester 2 Pre-Major Strand) Select TWO units from: **NQB201** Planet Earth **LQB682** Protein Biochemistry and Bioengineering SCB120 Plant and Animal Physiology LQB684 Medical Biotechnology Year 2, Semester 1 Plant Microbe Interactions **LQB685 SCB110** Science Concepts and Global Systems Course structure - Major in Chemistry **SCB111** Chemistry 1 Year 1, Semester 1 Year 2, Semester 2 SCB112 Cellular Basis of Life **SCB121** Chemistry 2 Either Or MAB101 Statistical Data Analysis 1 **SCB122** Cell and Molecular Biology Or MAB105 **Preparatory Mathematics SCB123** Physical Science Applications Plus Year 1, Semester 2 (Chemistry Pre-Major Strand) **NQB202** History of Life on Earth MAB120 Algebra and Calculus SCB123 Physical Science Applications Year 3, Semester 1 **NQB321 Ecology** Year 2, Semester 1 Plus either SCB110 Science Concepts and Global Systems NQB322 Invertebrate Biology SCB111 Chemistry 1 Or Year 2, Semester 2 **NQB323** Plant Biology SCB121 Chemistry 2 Year 3, Semester 2 **SCB131 Experimental Chemistry NQB421 Experimental Design** Year 3, Semester 1 **NQB422** Genetics and Evolution **PQB312** Analytical Chemistry For Scientists and **Technologists**

FACULTY OF SCIENCE AND TECHNOLOGY MAB105 **Preparatory Mathematics** Year 4, Semester 1 **NQB521** Population Genetics and Molecular Ecology Year 1, Semester 2 (Forensic Science Pre-Major Strand) **NQB523 Population Management SCB122** Cell and Molecular Biology **SCB123** Physical Science Applications Year 4, Semester 2 NQB622 Conservation Biology Year 2, Semester 1 NQB623 **Ecological Systems SCB110** Science Concepts and Global Systems Course structure - Major in Environmental Science **SCB111** Chemistry 1 Year 2, Semester 2 Year 1, Semester 1 **SCB121** Chemistry 2 SCB112 Cellular Basis of Life **SCB131 Experimental Chemistry** Either MAB101 Statistical Data Analysis 1 Year 3, Semester 1 LQB383 Molecular and Cellular Regulation **MAB105 Preparatory Mathematics SCB384** Forensic Sciences - From Crime Scene to Court Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand) Year 3, Semester 2 NQB202 History of Life on Earth JSB979 Forensic Scientific Evidence SCB120 Plant and Animal Physiology PQB312 Analytical Chemistry For Scientists and **Technologists** Year 2, Semester 1 Year 4, Semester 1 SCB110 Science Concepts and Global Systems **PQB513** Instrumental Analysis SCB111 Chemistry 1 **PQB584** Forensic Physical Evidence Year 2, Semester 2 Year 4, Semester 2 **Physical Science Applications** SCB123 LQB680 Forensic DNA Profiling SCB121 Chemistry 2 **PQB684** Forensic Analysis Year 3, Semester 1 Course structure - Major In Geoscience NQB302 Earth Surface Systems NQB321 **Ecology** Year 1, Semester 1 **SCB110** Science Concepts and Global Systems Year 3, Semester 2 Fither **NQB403** Soils and the Environment MAB101 Statistical Data Analysis 1 NQB421 **Experimental Design** Or Year 4, Semester 1 MAB105 **Preparatory Mathematics** NQB501 **Environmental Modelling** Year 1, Semester 2 (Geoscience Pre-Major Strand) **NQB502** Field Methods in Natural Resource Sciences **NQB201** Planet Earth Year 4, Semester 2 SCB222 Exploration of the Universe NQB601 Sustainable Environmental Management Year 2, Semester 1 NQB602 **Environmental Chemistry** SCB112 Cellular Basis of Life Course structure - Major in Forensic Science SCB111 Chemistry 1 Year 1, Semester 1 Year 2, Semester 2 SCB112 Cellular Basis of Life **SCB123** Physical Science Applications

NQB202

Year 3, Semester 1

History of Life on Earth

Either

Or

Statistical Data Analysis 1

MAB101

NQB311 Mineralogy Year 1, Semester 1 **NQB314** Sedimentary Geology **SCB110** Science Concepts and Global Systems Either Year 3, Semester 2 MAB120 Algebra and Calculus **NQB411** Petrology of Igneous and Metamorphic Rocks Or **NQB412** Structural Geology and Field Methods **MAB121** Calculus and Differential Equations Year 4, Semester 1 Students who have completed only Maths B are required to take MAB120. Students who **NQB502** Field Methods in Natural Resource Sciences have completed both Maths B and Maths C **NQB513** Geophysics should take MAB121. Year 4, Semester 2 Year 1, Semester 2 (Physics Pre-Major Strand) MAB122 **NQB614 Groundwater Systems** Algebra and Analytic Geometry **NQB615 PQB250** Mechanics and Electromagnetism Geochemistry Course structure - Major in Microbiology Year 2, Semester 1 **SCB112** Cellular Basis of Life Year 1, Semester 1 **SCB111** Chemistry 1 SCB112 Cellular Basis of Life Either Year 2, Semester 2 MAB101 Statistical Data Analysis 1 **MAB121** Calculus and Differential Equations MAB105 **Preparatory Mathematics** MAB220 Computational Mathematics 1 **PQB251** Waves and Optics Year 1, Semester 2 (Life Sciences Pre-Major Strand) SCB120 Plant and Animal Physiology Year 3. Semester 1 SCB122 Cell and Molecular Biology Advanced Calculus **MAB311 PQB350** Thermodynamics of Solids and Gases Year 2, Semester 1 SCB110 Science Concepts and Global Systems Year 3, Semester 2 **SCB111** Chemistry 1 **PQB450** Energy, Fields and Radiation PQB451 **Electronics and Instrumentation** Year 2, Semester 2 SCB123 **Physical Science Applications** Year 4, Semester 1 SCB121 Chemistry 2 **PQB550** Quantum and Condensed Matter Physics Physical Analytical Techniques **PQB551** Year 3, Semester 1 LQB381 Biochemistry: Structure and Function Year 4, Semester 2 LQB386 Microbial Structure and Function **PQB650** Advanced Theoretical Physics **PQB651 Experimental Physics** Year 3, Semester 2 **Bachelor of Laws Elective List - Odd Years Offerings** LQB483 Molecular Biology Techniques **LQB486** Clinical Microbiology 1 Important Information Year 4, Semester 1 These offerings are current at time of publication but are subject to change. LQB586 Clinical Microbiology 2

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

Course structure - Major in Physics

Assurance

Applied Microbiology 1: Water, Air and Soil

Microbial Technology and Immunology

Applied Microbiology 2: Food and Quality

LQB587

LQB686

LQB687

Year 4, Semester 2

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:

Con	text	tua	+

LWB144 Laws and Global PerspectivesLWB150 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 Law of Commercial Entities LWB366

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

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

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

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

	FACULTY OF SCIEN
LWB335	Administrative Law
LWB431	Civil Procedure
LWB432	Evidence
LWB433	Professional Responsibility
Undergrad	uate 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 o	destination streams
Legal Prac	
	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

Creative Commons Clinic

LWB499

LWBXXX	Consumer and Financial Services Law
LWBXXX	Climate Change Law

Public Sector

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

Electives that may be offered by the Law

Private Enterprise

LWB499

Law

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

Creative Commons Clinic

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.gut.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

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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

Voor 1 Sc	amostar 1
Year 1, Se	emester i
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	

real 1, Deffiester 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		

Teal 2, Se	illestel Z
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	

E	AND	TECHNOLOGY
	Year 3, Ser	mester 2
	LSB625	Clinical Biochemistry 2
	LSB635	Diagnostic Microbiology 2
	LSB655	Haematology 2
	LSB665	Immunohaematology
		course Structure - For students who will in 2011, & who commenced in 2009 & 2010
	Year 1, Ser	mester 1
	SCB112	Cellular Basis of Life
	SCB113	Chemistry for Health and Medical Science
	Year 1, Ser	mester 2
	SCB122	Cell and Molecular Biology
	SCB131	Experimental Chemistry
	Year 2, Ser	mester 1
	MAB141	Mathematics and Statistics for Medical Science
	PCB150	Physics 1H
	Year 2, Ser	mester 2
	LSB250	Human Physiology
	LSB255	Human Anatomy
	Year 3, Ser	mester 1
	LQB386	Microbial Structure and Function
	LSB365	Pathology
	Year 3, Ser	mester 2
	LSB435	Diagnostic Microbiology 1
	LSB438	Immunology 1
	Year 4, Ser	mester 1
	LQB383	Molecular and Cellular Regulation
	LSB325	Biochemistry
	Year 4, Ser	mester 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

EVVOCOT Introduction to intellectual Froperty Le

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

Year 4, Semester 2

Skills

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

FACULTY OF SCIENCE AND TECHNOLOGY LQB383 Molecular and Cellular Regulation SCB111 Chemistry 1 LSB325 **Biochemistry** SCB112 Cellular Basis of Life SCB121 Chemistry 2 Year 3, Semester 2 SCB122 Cell and Molecular Biology LQB483 Molecular Biology Techniques LQB484 Introduction to Genomics and Bioinformatics Year 2, Semester 1 **BSB115** Management Year 4, Semester 1 LQB383 Molecular and Cellular Regulation AMB240 Marketing Planning and Management LSB325 Biochemistry LQB386 Microbial Structure and Function MAB101 Statistical Data Analysis 1 Year 4, Semester 2 Year 2, Semester 2 LQB489 Plant Physiology and Cell Biology LSB250 **Human Physiology** MGB223 Entrepreneurship and Innovation LQB483 Molecular Biology Techniques Year 5, Semester 1 **LQB484** Introduction to Genomics and Bioinformatics LQB582 Plant Physiology and Cell Biology Biomedical Research Technologies **LQB489** MGB324 Managing Business Growth Year 3, Semester 1 Year 5, Semester 2 BSB126 Marketing BSB311 Microbial Structure and Function Innovation Commercialisation Strategies **LQB386** LQB682 Protein Biochemistry and Bioengineering **LQB584** Medical Cell Biology **LQB585** Plant Genetic Manipulation Year 6, Semester 1 LQB583 Year 3, Semester 2 Genetic Research Technology LWS007 Introduction To Intellectual Property Law **AMB240** Marketing Planning and Management LQB682 Protein Biochemistry and Bioengineering Year 6, Semester 2 MGB200 Leading Organisations LQB686 Microbial Technology and Immunology MGB223 Entrepreneurship and Innovation MGB200 Leading Organisations Year 4, Semester 1 Year 7, Semester 1 LQB582 Biomedical Research Technologies Medical Cell Biology LQB584 LQB583 Genetic Research Technology LQB585 Plant Genetic Manipulation LWS007 Introduction To Intellectual Property Law Year 7, Semester 2 MGB324 Managing Business Growth Select TWO units from the following: Year 4, Semester 2 LQB684 Medical Biotechnology **BSB311** Innovation Commercialisation Strategies LQB685 Plant Microbe Interactions MGB309 Strategic Management Year 8, Semester 1

DODOTT	illiovation 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

Year 1, Semester 2

Year 8, Semester 2

LSB709-1

MGB225

Biotechnology Research Project

LSB709-2 Biotechnology Research Project LSB709-3 Biotechnology Research Project

commenced in 2009 - Mid Year Entry

Full-time Course Structure - For students who

Intercultural Communication and Negotiation

	FACULTY OF SCIEN
Year 1, Sei	mester 1
BSB110	Accounting
MAB101	Statistical Data Analysis 1
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
Year 1, Sei	mester 2
BSB115	Management
LSB258	Principles of Human Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
Year 2, Sei	mester 1
BSB126	Marketing
LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function
LSB325	Biochemistry
Year 2, Sei	mester 2
LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
LQB489	Plant Physiology and Cell Biology
MGB223	Entrepreneurship and Innovation
Year 3, Sei	mester 1
LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
Year 3, Sei	mester 2
BSB311	Innovation Commercialisation Strategies
LQB682	Protein Biochemistry and Bioengineering
LQB686	Microbial Technology and Immunology
MGB200	Leading Organisations
Year 4, Sei	mester 1
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation
LSB709-1	Biotechnology Research Project
MGB225	Intercultural Communication and Negotiation
	Skills
Year 4, Sei	mester 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

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:
1.00500	Discounties I Describe Technologies

	uriits.
LQB582	Biomedical Research Technologies
LSN583	Genetic Research Technology
LSN584	Medical Cell Biology
LSN585	Plant Genetic Manipulation
LWN135	Law. Justice and New Genetic Technologi

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 <u>not</u> 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

Year 1, Semester 2 (MODULE 1)

Course structure - Full-time

LSN101	Molecular Biosciences
LSN102	Cellular Biosciences
LSN103	Postgraduate Learning and Research Skills
LSN483	Molecular Biology Techniques
Year 2, Ser	mester 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 Plant Microbe Interactions LQB685 In consultation with the course coordinator. choose 24 credit points from the following **LQB484** Introduction to Genomics and Bioinformatics LQB681 Biochemical Research Skills LQB682 Protein Biochemistry and Bioengineering **LQB685** Plant Microbe Interactions LSN684 Medical Biotechnology 2

Course structure - Part-time

MGN409

Year 1, Semester 2 (MODULE 1)

LSN101 Molecular Biosciences LSN102 Cellular Biosciences

Year 2, Semester 2 (MODULE 1)

LSN103 Postgraduate Learning and Research Skills

Introduction to Management

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

their first semester of study.

The Graduate Diploma in Biotechnology builds upon foundation concepts

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

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

Course structure - 1 un-time		
Year 1, Se	emester 2 (MODULE 1)	
LSN101	Molecular Biosciences	
LSN102	Cellular Biosciences	
LSN103	Postgraduate Learning and Research Skills	
LSN483	Molecular Biology Techniques	
Year 2, Se	emester 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	

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

Project, in consultation with the course coordinator, choose 48 credit points from the following units:

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, Se	emester 2 (MODULE 1)
LSN101	Molecular Biosciences
LSN102	Cellular Biosciences
Year 2, Se	emester 2 (MODULE 1)
LSN103	Postgraduate Learning and Research Skills
LSN483	Molecular Biology Techniques
Year 3, Se	emester 1 (MODULE 2)
LSN583	Genetic Research Technology
	Either
LSN585	Plant Genetic Manipulation
	Or
LSP127	Business Aspects of Biotechnology
Year 3, Se	emester 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:

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
- 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 industrysponsored 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

document for other suggestions)

Other first level elective units (see later in

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

Level 3 Ivia	itnematics 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 31/2 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

Statistical Data Analysis 1

- 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:

LUVINU

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

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

Statistical Data Analysis 1

	FACULTY OF SCIENC	EAND	TECHNOLOGY
MAN461	Discrete Mathematics		Advanced Postgraduate Mathematics Units:
MAN480	Introduction to Scientific Computation	MAN521	Applied Mathematics 3
	ADVANCED POSTGRADUATE	MAN613	Partial Differential Equations
	MATHEMATICS UNITS:	MAN672	Advanced Mathematical Modelling
MAN521	Applied Mathematics 3	MAN761	Analysis
MAN522	Computational Mathematics 3	MAN764	Applied Mathematical Modelling
MAN524	Statistical Inference	MAN774	Perturbation Methods
MAN525	Operations Research 3A	MAN777	Mathematics of Fluid Flow
MAN533	Statistical Techniques		Prerequisite Units:
MAN536	Time Series Analysis	MAN121	Calculus and Differential Equations
MAN613	Partial Differential Equations	MAN122	Algebra and Analytic Geometry
MAN623	Financial Mathematics	MAN220	Computational Mathematics 1
MAN624	Applied Statistics 3	MAN311	Advanced Calculus
MAN625	Operations Research 3B	MAN312	Linear Algebra
MAN672	Advanced Mathematical Modelling	MAN413	Differential Equations
MAN700	Project	MAN422	Mathematical Modelling
MAN717	Minor Project		·
MAN761	Analysis	Computation	onal Mathematics
MAN764	Applied Mathematical Modelling		Advanced Postgraduate Mathematics Units:
MAN765	Bayesian Data Analysis	MAN521	Applied Mathematics 3
MAN766	Applied Time Series Analysis	MAN522	Computational Mathematics 3
MAN768	Advanced Techniques in Operations Research	MAN771	Computational Mathematics 4
MAN769	Mathematics of Finance		Prerequisite Units:
MAN771	Computational Mathematics 4	MAN121	Calculus and Differential Equations
MAN774	Perturbation Methods	MAN122	Algebra and Analytic Geometry
MAN775	Statistical Modelling of Financial Processes	MAN220	Computational Mathematics 1
MAN777	Mathematics of Fluid Flow	MAN311	Advanced Calculus
MAN778	Applications of Discrete Mathematics	MAN312	Linear Algebra
MAN787-1	Project	MAN420	Computational Mathematics 2
MAN787-2	Project	MAN480	Introduction to Scientific Computation
MAN787-3	Project	Operations	s Research
Course structure Note			Advanced Postgraduate Mathematics Units:
		MAN525	Operations Research 3A
	If you wish to take any of the project units you	MAN625	Operations Research 3B
	will need to discuss your plans and the proposed content with the Course Coordinator.	MAN768	Advanced Techniques in Operations Research
			Prerequisite Units:
Strand Info	rmation	MAN121	Calculus and Differential Equations
	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.		Algebra and Analytic Geometry
			Statistical Modelling 1
			Operations Research 2
	Depending on your background, you may have already covered some of the units listed (or	Statistics/S	Statistical Modelling
	equivalent units) in your undergraduate studies. If you have not studied any		Advanced Postgraduate Mathematics Units:

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

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
Quantitativ	e Analysis/Financial Mathematics
Quantitativ	e Analysis/Financial Mathematics Advanced Postgraduate Mathematics Units:
Quantitativ MAN524	•
	Advanced Postgraduate Mathematics Units:
MAN524	Advanced Postgraduate Mathematics Units: Statistical Inference
MAN524 MAN533	Advanced Postgraduate Mathematics Units: Statistical Inference Statistical Techniques
MAN524 MAN533 MAN536	Advanced Postgraduate Mathematics Units: Statistical Inference Statistical Techniques Time Series Analysis
MAN524 MAN533 MAN536 MAN623	Advanced Postgraduate Mathematics Units: Statistical Inference Statistical Techniques Time Series Analysis Financial Mathematics

Prerequisite Units: MAN101 Statistical Data Analysis 1

MAN121 Calculus and Differential Equations

Mathematics of Finance

Statistical Modelling of Financial Processes

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:

MAN769

MAN775

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

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

Statistical Data Analysis 1

	FACULTY OF SCIENC	E AND	TECHNOLOGY
MAN480	Introduction to Scientific Computation	MAN521	Applied Mathematics 3
	ADVANCED POSTGRADUATE	MAN613	Partial Differential Equations
	MATHEMATICS UNITS:	MAN672	Advanced Mathematical Modelling
MAN521	Applied Mathematics 3	MAN761	Analysis
MAN522	Computational Mathematics 3	MAN764	Applied Mathematical Modelling
MAN524	Statistical Inference	MAN774	Perturbation Methods
MAN525	Operations Research 3A	MAN777	Mathematics of Fluid Flow
MAN533	Statistical Techniques		Prerequisite Units:
MAN536	Time Series Analysis	MAN121	Calculus and Differential Equations
MAN613	Partial Differential Equations	MAN122	Algebra and Analytic Geometry
MAN623	Financial Mathematics	MAN220	Computational Mathematics 1
MAN624	Applied Statistics 3	MAN311	Advanced Calculus
MAN625	Operations Research 3B	MAN312	Linear Algebra
MAN672	Advanced Mathematical Modelling	MAN413	Differential Equations
MAN700	Project	MAN422	Mathematical Modelling
MAN717	Minor Project		
MAN761	Analysis	Computation	onal Mathematics
MAN764	Applied Mathematical Modelling		Advanced Postgraduate Mathematics Units:
MAN765	Bayesian Data Analysis	MAN521	Applied Mathematics 3
MAN766	Applied Time Series Analysis	MAN522	Computational Mathematics 3
MAN768	Advanced Techniques in Operations Research	MAN771	Computational Mathematics 4
MAN769	Mathematics of Finance		Prerequisite Units:
MAN771	Computational Mathematics 4	MAN121	Calculus and Differential Equations
MAN774	Perturbation Methods	MAN122	Algebra and Analytic Geometry
MAN775	Statistical Modelling of Financial Processes	MAN220	Computational Mathematics 1
MAN777	Mathematics of Fluid Flow	MAN311	Advanced Calculus
MAN778	Applications of Discrete Mathematics	MAN312	Linear Algebra
MAN787-1	Project	MAN420	Computational Mathematics 2
MAN787-2	Project	MAN480	Introduction to Scientific Computation
MAN787-3	Project	Operations	Research
Course str	ucture Note		Advanced Postgraduate Mathematics Units:
		MAN525	Operations Research 3A
	If you wish to take any of the project units you	MAN625	Operations Research 3B
	will need to discuss your plans and the proposed content with the Course Coordinator.	MAN768	Advanced Techniques in Operations Research
·			Prerequisite Units:
Strand Info	rmation	MAN121	Calculus and Differential Equations
	The following strong information is to societ	MAN122	Algebra and Analytic Geometry
	The following strand information is to assist you with unit selection. You do not have to	MAN210	Statistical Modelling 1
	enrol in all units listed for a strand. The prerequisite units are given to guide you.	MAN315	Operations Research 2

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 commencing those listed in the strand information.

Mathematical Modelling/Applied Mathematics

Advanced Postgraduate Mathematics Units:

	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

Statistics/Statistical Modelling

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 AnalysisMAN623 Financial MathematicsMAN624 Applied Statistics 3

MAN765 Bayesian Data AnalysisMAN766 Applied Time Series AnalysisMAN769 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 subscore 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

Regional and Imaging Anatomy 2	
Radiographic Equipment	
Special Procedures	
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

Email: jaile:barbery@qat:caa.c

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

SB321	Systematic	Pathology
-3D3Z I	Systematic	ralliology

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
DOD070 4	Desired

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 indepth 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 (onshore) (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@gut.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)

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

PCN212	Radiotherapy
PCN214	Health and Occupational Physics
Year 2, Ser	nester 1 (February to June)
PCN113	Radiation Physics
PCN114	Microprocessors and Instrumentation
PCN218	Research Methodology and Professional Studies

Medical Imaging Science

Course structure - Mid-Year Entry - Part-time Course

Physics of Medical Imaging

Year 1, Semester 2 (July to October)

LSB182 Bioscience 1

PCN112

PCN211

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 (onshore) (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@gut.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 computerdesign 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-toface 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)

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/feeschedule/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@gut.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

The PCN497 and PCN597 clinical attachment NOTES:

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 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 Research Methodology and Professional **PCN218** 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

Research Methodology and Professional

PCN218

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@gut.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 computerdesign 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-toface 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/feeschedule/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.gut.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 everincreasing 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	Al for Games

Years 2 and 3, Semester 2

Building IT Systems
Programming
Modelling and Animation Techniques
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 2KMB252 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.gut.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@gut.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:

Matricinatios aritis.

Advanced Calculus

Students must complete:

MAB312 Linear Algebra

MAB311

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

Science Elective Units

Operations Research 3B

Advanced Mathematical Modelling

Industry Project

MAB625

MAB640

MAB672

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.

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

Information on some possible Science elective units.

Level 2 or 3 Elective Unit Suggestions for Physics Major

Other elective units may be found in the comajors listed in the SC01 Course Summary

PQB360 Global Energy Balance and Climate Change PQB460 Astrophysics 1 PQB660 Astrophysics 2

Potential Careers:

Sheet.

NOTE:

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

	FACULTY OF SCIENCE	E AND	TECHNOLOGY
	Or another elective to be approved by the course coordinator	PUB104	Australian Health Care Systems or
Year 1, Se	mostor 2	PUB326	Epidemiology
LSB255	Human Anatomy	1 00020	Semester 2:
	•	PUB251	Contemporary Public Health
PCB150	Physics 1H	1 00201	or
SCB121	Chemistry 2	PUB436	Evidence Based Practice
SCB122	Cell and Molecular Biology	1 00430	
Year 2, Se			EXERCISE SCIENCE FOR PREVENTIVE MEDICINE
LQB383	Molecular and Cellular Regulation		Semester 1:
LQB386	Microbial Structure and Function	HMB271	Foundations of Motor Control, Learning and
LQB388	Medical Physiology 1		Development
LSB325	Biochemistry	LIMBO70	Semester 2:
Year 2, Se	mester 2	HMB273	Exercise Physiology 1
LQB483	Molecular Biology Techniques		INDIGENOUS PERSPECTIVES
LQB486	Clinical Microbiology 1		Semester 1:
LSB425	Quantitative Medical Science	EDB038	Indigenous Australian Culture Studies
SWB105	Introduction to Human Rights and Ethics		Semester 2:
Year 3, Se	mester 1	EDB040	Indigenous Knowledge: Research Ethics and Protocols
LQB583	Genetic Research Technology		HEALTH AND SCIENCES
LQB584	Medical Cell Biology	ECG	ECG Analysis and Interpretation Course is offered at QUT Health Clinics, Kelvin Grove or
LQB586 LSB525	Clinical Microbiology 2 Clinical Biochemistry 1	COURSE	offered at QUT Health Clinics, Kelvin Grove or UQ Sport, St Lucia
	·		Semester 1:
Year 3, Se		PUB326	Epidemiology
LQB488	Medical Physiology 2		Or
LQB684	Medical Biotechnology	LQB588	Applied Medical Physiology
LSB625	Clinical Biochemistry 2		Or
LSB658	Clinical Physiology	LSB384	Pharmacology For Health Professionals
NOTE:			Semester 2:
	Students may substitute ONE unit from EACH of Year 3/Semesters 1 and 2 (or Year	LQB686	Microbial Technology and Immunology Or
	2/Semester 2) with an approved pair of electives from one stream only from the following list, providing that a MATCHING SET	LSB384	Pharmacology For Health Professionals
	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		ructure - Part-time
			mester 1
	points of SC40 units. Students may then	MAB141	Mathematics and Statistics for Medical Science
	choose any unit from this list to complete the pair of electives. The elective options are subject to timetabling and campus offerings.	SCB112	Cellular Basis of Life
	subject to timetabiling and campus offerings.	Year 1, Se	mester 2
	PSYCHOLOGY AND COUNSELLING	LSB255	Human Anatomy
	Semester 1:	SCB122	Cell and Molecular Biology
PYB100	Foundation Psychology		ν,
	Semester 2:	Year 2, Se	
PYB208	Counselling Theory and Practice 1	SCB111	Chemistry 1
	PUBLIC HEALTH		Plus ONE elective to be chosen from the following list:
	Semester 1:	KWB101	Introduction to Creative Writing

PYB007 Interpersonal Processes and Skills

Or another elective to be approved by the course coordinator

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.

Potential Careers:

Laboratory Assistant, Laboratory Technician, Medicine (after further study), Research Assistant.

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 preregistration 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 postvaccination 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

Chemistry for Health and Medical Science

Year 1, Semester 2

SCB113

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

Microbial Structure and Function
Pharmacy Practice 3
Pharmaceutics 1
Pharmacology 3

Year 3, Semester 2

i cai o, oci	nester 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@gut.edu.au

Environmental Science

Associate Professor Peter Mather

Phone: +61 7 3138 1737 Email: p.mather@qut.edu.au

Geology

Mr David Hurwood Phone: +61 7 3138 5072 Email: d.hurwood@qut.edu.au

Life Science

Associate Professor Terry Walsh

Phone: +61 7 3138 2347 Email: t.walsh@qut.edu.au

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) šhould 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		must constitute at least 96 credit points. The units below have been devised to represent the
	Select one of the following Elective Units:	EFTSU (Effective Full-time Student Unit) and
PCN710	Chemical Instrumentation	attendance type of graduate research students.
PCN720	Chemometrics	At the end of each semester a grade of T - Assessment Continues will be awarded in any
PCN730	Advanced Physical Methods in Chemistry	IFNXXX units provided satisfactory progress is being maintained. A final grade (S -
PCN740	Laboratory Techniques for Preparative Chemistry	Satisfactory or U - Unsatisfactory) will be awarded once the thesis has been examined
PCN801	Topics in Advanced Chemistry 2	according to the degree rules.

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

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		
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;	Disciplines	
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 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; 	IFT611	Thesis
 Earth Sciences Thesis Biological Sciences, Agriculture, Horticulture & Viticulture, Forestry Studies, Fisheries Studies, Environmental Studies, Other Agriculture, Environmental & Related Studies Thesis Physics & Astronomy, Other Natural & Physical Sciences Thesis Computer Science Thesis Information Systems & Other Information Technology Thesis Electrical & Electronic Engineering Thesis Environmental Engineering, Biomedical Engineering Thesis Medical Studies, Pharmacy, Dentistry Thesis Political Science & Policy Studies; Human Welfare Studies & Services; Behavioural Science; Librarianship, Information Management & Curatorial Studies; Language & Literature; Philosophy & Religious Studies; 	2.	Chemical 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; 	IFT612	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;	3.	Earth Sciences
Viticulture, Forestry Stūdies, 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;	IFT613	Thesis
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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;	IFT614	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;	5.	
 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; 	IFT615	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;	6.	Computer Science
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;	IFT621	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;	7.	
 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; 	IFT622	Thesis
 Environmental Engineering, Biomedical Engineering IFT637 Thesis Medical Studies, Pharmacy, Dentistry IFT661 Thesis Political Science & Policy Studies; Human Welfare Studies & Services; Behavioural Science; Librarianship, Information Management & Curatorial Studies; Language & Literature; Philosophy & Religious Studies; 	8.	Electrical & Electronic Engineering
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;	IFT635	Thesis
 Medical Studies, Pharmacy, Dentistry IFT661 Thesis Political Science & Policy Studies; Human Welfare Studies & Services; Behavioural Science; Librarianship, Information Management & Curatorial Studies; Language & Literature; Philosophy & Religious Studies; 	9.	
 IFT661 Thesis 11. Political Science & Policy Studies; Human Welfare Studies & Services; Behavioural Science; Librarianship, Information Management & Curatorial Studies; Language & Literature; Philosophy & Religious Studies; 	IFT637	Thesis
11. Political Science & Policy Studies; Human Welfare Studies & Services; Behavioural Science; Librarianship, Information Management & Curatorial Studies; Language & Literature; Philosophy & Religious Studies;	10.	Medical Studies, Pharmacy, Dentistry
Welfare Studies & Services; Behavioural Science; Librarianship, Information Management & Curatorial Studies; Language & Literature; Philosophy & Religious Studies;	IFT661	Thesis
	11.	Welfare Studies & Services; Behavioural Science; Librarianship, Information Management & Curatorial Studies; Language & Literature; Philosophy & Religious Studies;

Potential Careers:

Thesis

IFT696

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

FACULTY OF SCIENCE AND TECHNOLOGY 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.gut.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.gut.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	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, Ser	mester 2				
SCB120	Plant and Animal Physiology				
SCB121	Chemistry 2				
SCB122	Cell and Molecular Biology				
SCB123	Physical Science Applications				
Year 2, Ser	mester 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, Ser	mester 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, Ser	mester 1				
BSB115	Management				
LQB581	Functional Biochemistry				
LQB582	Biomedical Research Technologies				
STB551	Engaging with the Innovation Industry				
Year 3, Ser	mester 2				
BSB126	Marketing				
LQB681	Biochemical Research Skills				
LQB682	Protein Biochemistry and Bioengineering				
MGB223	Entrepreneurship and Innovation				
Year 4, Ser	nester 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 clinically oriented 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

	FACULTY OF SCIEN	CE AND	TECHNOLOGY
SCB110	Science Concepts and Global Systems	MGB225	Intercultural Communication and Negotiation
SCB111	Chemistry 1	0	Skills
SCB112	Cellular Basis of Life		Innovation and Commercialisation Project Innovation and Commercialisation Project
Year 1, Se	mester 2	316709-3	illiovation and Commercialisation Project
LSB255	Human Anatomy	'	
PCB150	Physics 1H		
SCB121	Chemistry 2		
SCB122	Cell and Molecular Biology		
Year 2, Se	mester 1		
LQB383	Molecular and Cellular Regulation		
LQB386	Microbial Structure and Function		
LQB388	Medical Physiology 1		
LSB325	Biochemistry		
Year 2, Se	mester 2		
LQB483	Molecular Biology Techniques		
LQB484	Introduction to Genomics and Bioinformatics		
LQB486	Clinical Microbiology 1		
LSB425	Quantitative Medical Science		
Year 3, Se	mester 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, Se	mester 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, Se	mester 1		
AMB240	Marketing Planning and Management		
LWS007	Introduction To Intellectual Property Law		
MGB324	Managing Business Growth		
STB709-1			
Year 4, Se	mester 2		

BSB311 Innovation Commercialisation Strategies

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 SCIENC	CE AND	TECHNOLOGY
SCB111	Chemistry 1		provided prerequisites are met
SCB112	Cellular Basis of Life	LQB583	Genetic Research Technology
	Plus ONE of the following units	LQB584	Medical Cell Biology
MAB101	Statistical Data Analysis 1	LQB585	Plant Genetic Manipulation
MAB105	Preparatory Mathematics	Year 3 Ser	mester 2
MAB120	Algebra and Calculus	BSB126	Marketing
MAB121	Calculus and Differential Equations	MGB223	Entrepreneurship and Innovation
	NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in		Plus any TWO of the three units below provided prerequisites are met
	MAB101	LQB682	Protein Biochemistry and Bioengineering
	Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105	LQB684 LQB685	Medical Biotechnology Plant Microbe Interactions
	Students with a Sound Achievement in Maths	LQD000	Plant Microbe Interactions
	C and wishing to major in Mathematics or Physics should enrol in MAB121	Year 4 Ser	mester 1
	Students without a Sound Achievement in	AMB240	Marketing Planning and Management
	Maths C and wishing to major in Mathematics	LWS007	Introduction To Intellectual Property Law
	or Physics should enrol in MAB120	MGB324	Managing Business Growth
Year 1 Se	mester 2	STB709-1	Innovation and Commercialisation Project
SCB120	Plant and Animal Physiology	Year 4 Ser	mostor 2
SCB121	Chemistry 2	BSB311	Innovation Commercialisation Strategies
SCB122	Cell and Molecular Biology	MGB225	· ·
SCB123	Physical Science Applications		Intercultural Communication and Negotiation Skills
Year 2 Se	mester 1		Innovation and Commercialisation Project
LQB381	Biochemistry: Structure and Function	STB709-3	Innovation and Commercialisation Project
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 Se	mester 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 Se	mester 1		
BSB115	Management		
070554	- was a second		

STB551

Engaging with the Innovation Industry Plus any TWO of the three units below

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

	FACULTY OF SCIENC	E AND	TECHNOLOGY
SCB110	Science Concepts and Global Systems	Year 3 Ser	mester 1
SCB111	Chemistry 1	BSB115	Management
SCB112	Cellular Basis of Life	PQB502	Advanced Physical Chemistry
	Plus ONE of the following units	PQB531	Organic Mechanisms and Synthesis
MAB101	Statistical Data Analysis 1	STB551	Engaging with the Innovation Industry
MAB105	Preparatory Mathematics		
MAB120	Algebra and Calculus	Year 3 Ser	mester 2
MAB121	Calculus and Differential Equations	BSB126	Marketing
	NOTE: Students with a Sound Achievement in	MGB223	Entrepreneurship and Innovation
	Maths B and NOT wishing to major in Mathematics or Physics should enrol in	PQB631	Advanced Inorganic Chemistry
	MAB101	PQB642	Chemical Research
	Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105	Year 4 Ser	mester 1
	Students with a Sound Achievement in Maths	AMB240	Marketing Planning and Management
	C and wishing to major in Mathematics or Physics should enrol in MAB121	LWS007	Introduction To Intellectual Property Law
	Students without a Sound Achievement in	MGB324	Managing Business Growth
	Maths C and wishing to major in Mathematics or Physics should enrol in MAB120	STB709-1	Innovation and Commercialisation Project
		Year 4 Ser	mester 2
Year 1 Se		BSB311	Innovation Commercialisation Strategies
SCB121	Chemistry 2	MGB225	Intercultural Communication and Negotiation Skills
SCB123	Physical Science Applications	CTD700.0	
SCB131	Experimental Chemistry		Innovation and Commercialisation Project
	Plus ONE of the following two units	S1B709-3	Innovation and Commercialisation Project
MAB120	Algebra and Calculus		
SCB122	Cell and Molecular Biology		
Year 2 Sei	mester 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

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)

FACULTY OF SCIENCE AND TECHNOLOGY BLOCK B Major - 13 units (156 credit points) Block C Minor List Minor - 4 units (48 credit points) BLOCK C Electives - 2 units (24 credit points) ANIMATION: BLOCK D **KIB105** Animation and Motion Graphics Year 1 Semester 1 **KIB108** Animation History and Practices **INB101** Impact of IT **KIB203** Introduction to 3D Computer Graphics **INB104 Building IT Systems** KIB225 Character Development, Conceptual Design **INB180** Computer Games Studies and Animation Layout **INB182** Introducing Design **KVB105** Drawing for Design **KVB106 Drawing for Animation** Year 1 Semester 2 **INB103** Industry Insights **GAME DESIGN: INB181** Introduction to Games Production **KIB201** Concept Development for Game Design and Interactive Media Block C or Block D Unit **KIB202 Enabling Immersion** Block C or Block D Unit **INB280** Fundamentals of Game Design Year 2 Semester 1 Plus ONE of the following two units: **INB385** Multimedia Systems **INB281** Advanced Game Design **KIB101** Visual Communication **INB272** Interaction Design **KIB230** Interface and Information Design MATHEMATICS FOR GAMES: Block C or Block D Unit MAB120 Algebra and Calculus Year 2 Semester 2 MAB122 Algebra and Analytic Geometry **INB386** Advanced Multimedia Systems MAB121 Calculus and Differential Equations **KIB102** Visual Interactions MAB312 Linear Algebra Block C or Block D Unit [Students who have completed Maths C can susbtitute MAB120 with one of the following Block C or Block D Unit units: MAB311, MAB481 or MAB422] Year 3 Semester 1 MOBILE AND NETWORK TECHNOLOGIES: **BSB115** Management INB102 **Emerging Technology INB345** Mobile Devices **INB251** Networks **KIB309 Embodied Interactions** INB350 Internet Protocols and Services STB551 Engaging with the Innovation Industry **INB353** Wireless and Mobile Networks Year 3 Semester 2 SOUND DESIGN: BSB126 Marketing **KMB107** Sound, Image, Text **KIB314** Tangible Media KMB119 Music and Sound Production 1 MGB223 Entrepreneurship and Innovation KMB129 Music and Sound Production 2 Block C or Block D Unit KMB252 Multi-Platform Sound Design Year 4 Semester 1 SOFTWARE TECHNOLOGIES: **AMB240** Marketing Planning and Management **INB210 Databases** LWS007 Introduction To Intellectual Property Law **INB250** Foundations of Computer Science MGB324 Managing Business Growth **INB270** Programming STB709-1 Innovation and Commercialisation Project Data Structures and Algorithms **INB371** Year 4 Semester 2 PHYSICS FOR GAMES: BSB311 **Innovation Commercialisation Strategies MAB121** Calculus and Differential Equations MGB225 Intercultural Communication and Negotiation **PQB250** Mechanics and Electromagnetism

STB709-2 Innovation and Commercialisation Project

STB709-3 Innovation and Commercialisation Project

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

Ecology IV	lajor Course Structure
Year 1, Se	emester 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, Se	emester 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, Se	emester 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

Relevant Options List for Year 2 Semester 1

Plus TWO units from the relevant options List which may include one unit from outside of the

Faculty

Invertebrate Biology

Experimental Design

Genetics and Evolution

Plant Biology Elective

NQB322

NQB323

NQB421

NQB422

Year 2, Semester 2

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 SCIENC	E AND	TECHNOLOGY
Year 1 Semester 1 NQB501 Environmental Modelling			Environmental Modelling
SCB110	Science Concepts and Global Systems	STB551	Engaging with the Innovation Industry
SCB111	Chemistry 1		Plus ONE of the two following units:
SCB112	Cellular Basis of Life	NQB502	Field Methods in Natural Resource Sciences
	Plus ONE of the following four units:	NQB503	Spatial Analysis of Environmental Systems
MAB101	Statistical Data Analysis 1	Year 3 Ser	maataw 2
MAB105	Preparatory Mathematics	BSB126	
MAB120	Algebra and Calculus	MGB223	Marketing Entrepreneurship and Innovation
MAB121	Calculus and Differential Equations	NQB601	·
	NOTE: Students with a Sound Achievement in	INQD00 I	Sustainable Environmental Management Plus ONE of the three following units:
	Maths B and NOT wishing to major in Mathematics or Physics should enrol in	NQB602	Environmental Chemistry
	MAB101	NQB602 NQB614	•
	Students without a Sound Achievement (4	NQB614 NQB623	Groundwater Systems
	semesters) in Maths B should enrol in MAB105	NQD023	Ecological Systems
	Students with a Sound Achievement in Maths C and wishing to major in Mathematics or	Year 4 Ser	mester 1
	Physics should enrol in MAB121	AMB240	Marketing Planning and Management
	Students without a Sound Achievement in	LWS007	Introduction To Intellectual Property Law
	Maths C and wishing to major in Mathematics or Physics should enrol in MAB120	MGB324	Managing Business Growth
V 10		STB709-1	Innovation and Commercialisation Project
Year 1 Se		Year 4 Ser	maataw 2
NQB202	History of Life on Earth	BSB311	
SCB120	Plant and Animal Physiology	MGB225	Innovation Commercialisation Strategies
SCB123	Physical Science Applications	IVIGDZZS	Intercultural Communication and Negotiation Skills
NODOGA	Plus ONE of the following two units:	STB709-2	Innovation and Commercialisation Project
NQB201	Planet Earth		Innovation and Commercialisation Project
SCB121	Chemistry 2		Innovation and Commercialisation Project
	Chemistry 2		Innovation and Commercialisation Project
SCB121	Chemistry 2		Innovation and Commercialisation Project
SCB121 Year 2 Se	Chemistry 2 mester 1		Innovation and Commercialisation Project
SCB121 Year 2 Se NQB302	Chemistry 2 mester 1 Earth Surface Systems		Innovation and Commercialisation Project
SCB121 Year 2 Se NQB302	Chemistry 2 mester 1 Earth Surface Systems Ecology Plus TWO units from the relevant options List which may include one unit from outside the		Innovation and Commercialisation Project
SCB121 Year 2 Se NQB302	Chemistry 2 mester 1 Earth Surface Systems Ecology Plus TWO units from the relevant options List which may include one unit from outside the Faculty		Innovation and Commercialisation Project
SCB121 Year 2 Se NQB302 NQB321	Chemistry 2 mester 1 Earth Surface Systems 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		Innovation and Commercialisation Project
SCB121 Year 2 Se NQB302 NQB321	Chemistry 2 mester 1 Earth Surface Systems 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 Invertebrate Biology		Innovation and Commercialisation Project
SCB121 Year 2 Se NQB302 NQB321	Chemistry 2 mester 1 Earth Surface Systems 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 Invertebrate Biology Plant Biology Elective		Innovation and Commercialisation Project
SCB121 Year 2 Se NQB302 NQB321 NQB322 NQB322 NQB323	Chemistry 2 mester 1 Earth Surface Systems 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 Invertebrate Biology Plant Biology Elective		Innovation and Commercialisation Project
SCB121 Year 2 Sel NQB302 NQB321 NQB322 NQB323 Year 2 Sel	Chemistry 2 mester 1 Earth Surface Systems 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 Invertebrate Biology Plant Biology Elective mester 2		Innovation and Commercialisation Project
SCB121 Year 2 Se NQB302 NQB321 NQB322 NQB323 Year 2 Se NQB403	Chemistry 2 mester 1 Earth Surface Systems 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 Invertebrate Biology Plant Biology Elective mester 2 Soils and the Environment		Innovation and Commercialisation Project
SCB121 Year 2 Se NQB302 NQB321 NQB322 NQB323 Year 2 Se NQB403	Chemistry 2 mester 1 Earth Surface Systems 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 Invertebrate Biology Plant Biology Elective mester 2 Soils and the Environment Experimental Design Plus TWO units from the relevant options List which may include one unit from outside the		Innovation and Commercialisation Project
SCB121 Year 2 Se NQB302 NQB321 NQB322 NQB323 Year 2 Se NQB403	Chemistry 2 mester 1 Earth Surface Systems 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 Invertebrate Biology Plant Biology Elective mester 2 Soils and the Environment Experimental Design Plus TWO units from the relevant options List which may include one unit from outside the Faculty		Innovation and Commercialisation Project

Elective

Management

Year 3 Semester 1

BSB115

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, Se	emester 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

rear 2, Semester 1		
LQE	3383	Molecular and Cellular Regulation
SCE	3384	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
PQI	3331	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, Se	emester 2
BSB126	Marketing

Entrepreneurship and Innovation

Forensic DNA Profiling

Forensic Analysis

Year 4, Semester 1

MGB223

LQB680

PQB684

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)		
	` , , , , , , , , , , , , , , , , , , ,	BLOCK C	Minor Units List
Year 1 Ser		ANIMATIC	ON:
INB101	Impact of IT	KIB105	Animation and Motion Graphics
INB104	Building IT Systems	KIB108	Animation History and Practices
INB180	Computer Games Studies	KIB108	Animation History and Practices
INB182 Year 1 Ser	Introducing Design	KIB225	Character Development, Conceptual Designand Animation Layout
INB103	Industry Insights	KVB105	Drawing for Design
INB103	Introduction to Games Production	KVB106	Drawing for Animation
		151/11/05	
INB270	Programming Mathematics for Computer Cropbins		ED SOFTWARE TECHNOLOGIES:
MAB281	Mathematics for Computer Graphics	INB365	Systems Programming
Year 2 Ser	mester 1	INB372	Agile Software Development
INB370	Software Development	INB374	Enterprise Software Architecture
INB371	Data Structures and Algorithms		Plus ONE from the following two units:
	Block C or Block D Unit	INB382	Real Time Rendering Techniques
	Block C or Block D Unit	INB383	Al for Games
Year 2 Ser	mester 2	DIGITAL N	MEDIA:
INB210	Databases	KIB101	Visual Communication
INB250	Foundations of Computer Science	KIB102	Visual Interactions
INB381	Modelling and Animation Techniques	INB385	Multimedia Systems
1112001	Block C or Block D Unit	INB386	Advanced Multimedia Systems
Year 3 Ser	mester 1	GAME DE	SIGN:
BSB115	Management	KIB201	Concept Development for Game Design and Interactive Media
STB551	Engaging with the Innovation Industry	KIB202	Enabling Immersion
	Block C or Block D Unit	INB280	Fundamentals of Game Design
	Plus ONE of the following two units:		Plus ONE from the following two units:
INB382	Real Time Rendering Techniques	INB272	Interaction Design
INB383	Al for Games	INB281	Advanced Game Design
Year 3 Ser	mester 2	MATHEMA	ATICS FOR GAMES:
BSB126	Marketing	MAB120	Algebra and Calculus
MGB223	Entrepreneurship and Innovation	MAB121	Calculus and Differential Equations
	Block C or Block D Unit	MAB122	Algebra and Analytic Geometry
	Block C or Block D Unit	MAB312	Linear Algebra
Year 4 Ser	mester 1	1	[Students who have completed Maths C car
AMB240	Marketing Planning and Management		substitute MAB120 with one of the following units: MAB311, MAB481 or MAB422]
LWS007	Introduction To Intellectual Property Law		units. With Bott, With Barot of With Bar22]
MGB324	Managing Business Growth	MOBILE A	AND NETWORK TECHNOLOGIES:
STB709-1		INB102	Emerging Technology
C1D103-1	milovation and Commercialisation i Toject	INB251	Networks

Year 4 Semester 2 INB350 Internet Protocols and Services INB353 BSB311 **Innovation Commercialisation Strategies** Wireless and Mobile Networks MGB225 Intercultural Communication and Negotiation SOUND DESIGN: **KMB106** Music and Sound for Multimedia STB709-2 Innovation and Commercialisation Project KMB107 Sound, Image, Text STB709-3 Innovation and Commercialisation Project

KMB119	Music and Sound Production 1
KMB129	Music and Sound Production 2
PHYSICS	FOR GAMES:

MAB121	Calculus and Differential Equations
PQB250	Mechanics and Electromagnetism

Waves and Optics PQB251

Plus ONE from the following three units:

Energy, Fields and Radiation PQB450

PQB460 Astrophysics 1

Digital Image Processing PCB593

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

	FACULIY OF SCIEN		
		NQB513	Geophysics
Year 1 Se		STB551	Engaging with the Innovation Industry
SCB110	Science Concepts and Global Systems	Year 3 Ser	mester 2
SCB111	Chemistry 1	BSB126	Marketing
SCB112	Cellular Basis of Life	MGB223	Entrepreneurship and Innovation
	Plus ONE of the following four units:	NQB615	Geochemistry
MAB101	Statistical Data Analysis 1	NGBOTO	Plus ONE from the following three units:
MAB105	Preparatory Mathematics	NQB612	Basin Analysis and Petroleum Geology
MAB120	Algebra and Calculus	NQB613	Plate Tectonics
MAB121	Calculus and Differential Equations	NQB614	Groundwater Systems
	NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in	NQD014	Groundwater Gystems
	Mathematics or Physics should enrol in	Year 4 Ser	mester 1
	MAB101	AMB240	Marketing Planning and Management
	Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105	LWS007	Introduction To Intellectual Property Law
	Students with a Sound Achievement in Maths	MGB324	Managing Business Growth
	C and wishing to major in Mathematics or Physics should enrol in MAB121	STB709-1	Innovation and Commercialisation Project
	Students without a Sound Achievement in	Year 4 Ser	mester 2
	Maths C and wishing to major in Mathematics or Physics should enrol in MAB120	BSB311	Innovation Commercialisation Strategies
Year 1 Se	•	MGB225	Intercultural Communication and Negotiation Skills
NQB201	Planet Earth	STB709-2	Innovation and Commercialisation Project
NQB201	History of Life on Earth		Innovation and Commercialisation Project
SCB123	Physical Science Applications		,
SCB123 SCB222			
SCBZZZ	Exploration of the Universe		
Year 2 Se	mester 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 Se	mester 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

Management

Field Methods in Natural Resource Sciences

BSB115

NQB502

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.

Plus ONE unit either from the IT Breadth Options List or the IT Specialisation Options **Information Technology Major Course Structure** List Year 1 Semester 1 Year 4 Semester 1

INB101	Impact of II
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

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

Management

BSB115

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

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

1110120	Corporate Cyclomo
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
INB340 INB341 INB342 INB343	DATA WAREHOUSING: Database Design Software Development With Oracle Enterprise Data Mining and Data Analysis Advanced Data Mining and Data Warehousing
INB350 INB351 INB352 INB353	NETWORK SYSTEMS: Internet Protocols and Services Unix Network Administration Network Planning Wireless and Mobile Networks
INB370 INB371 INB372 INB374	SOFTWARE ENGINEERING: Software Development Data Structures and Algorithms Agile Software Development Enterprise Software Architecture
INB334 INB345 INB346 INB347	DIGITAL ENVIRONMENTS Information Issues and Values Mobile Devices Enterprise 2.0 Web 2.0 Applications
INB355 INB365 INB860	UNGROUPED UNITS: Cryptology and Protocols Systems Programming 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

STB551

	FACULTY OF SCIENCE
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 Se	mester 2
SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
Year 2 Se	mester 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 Se	mester 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 Se	mester 1
202115	• •

BSB115

LQB586 LQB587 Management

Clinical Microbiology 2

Applied Microbiology 1: Water, Air and Soil

	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			
	AMR240	Marketing Planning and Management	

Engaging with the Innovation Industry

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

	FACULTY OF SCIEN
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 Sei	mester 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 Sei	mester 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 Sei	mester 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 Sei	mester 1
BSB115	Management
PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques

Engaging with the Innovation Industry

STB551

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

KDB204

Australian Dance

Cornerate	Systems Management Competer 1	NDB204	Australian Dance
Corporate Systems Management- Semester 1		Drama	
INB103 INB120	Industry Insights Corporate Systems	D 0	1. 4
INB120 INB122	Organisational Databases	Drama- Se	
INB122 INB220	Business Analysis	KTB101	20th Century Performance
	•	KTB102	Process Drama
INB221	Technology Management	KTB103	Performing Skills 1: Character and Scene
INB312	Enterprise Systems Applications	KTB204	Understanding Performance
INB321	Business Process Management	Drama- Se	emester 2
INB322	Information Systems Consulting	KTB104	Performance Innovation
Corporate	Systems Management- Semester 2	KTB106	Performing Skills 2: Style and Form
INB103	Industry Insights	Education	- Gonoral
INB123	Project Management Practice	Luucation	- Gerierai
INB124	Information Systems Development	Education	- Semester 1
INB210	Databases	EDB004	Teaching and Learning Studies 4: Inclusive
INB313	Electronic Commerce Site Development		Education
INB320	Business Process Modelling	EDB036	Introduction To Education
INB342	Enterprise Data Mining and Data Analysis	Education	- Semester 2
Creative Industries Foundation		EDB003	Teaching and Learning Studies 3: Practising Education
Foundation	n- Semester 1	EDB041	Indigenous Australia: Country, Kin and Culture
KKB101 Creative Industries: People and Practices		Education	: Cultural and Language Studies
Foundation	n- Semester 2	Education:	: Cultural and Language Studies- Semester 1
KKB102	Creative Industries: Making Connections	CLB001	Records Management
Creative Writing		CLB049	The Global Teacher
		CLB050	Movies and Popular Culture
Creative W	/riting- Semester 1	CLB321	Writing Workshop
KWB101	Introduction to Creative Writing	CLB321	Writing Workshop
KWB102	Media Writing	CLB403	Gender And Sexuality Issues For Teachers
KWB103	Persuasive Writing	CLB442	Teaching of Writing
KWB104	Creative Writing: the Short Story	CLB452	Media Literacy And The School
KWB107	Creative Non-Fiction		
KWB207	Great Books: Creative Writing Classics		: Cultural and Language Studies- Semester 2
KWB211	Stylistics and Poetics	CLB002	Computer Applications in BCT
10115100		CLB003	Administrative Procedures
KWB102	Media Writing	CLB004	Foundation: Language Design and Theory
KWB104	Creative Writing: the Short Story	CLB005	Foundation: Wellness and Active Citizenship
KWB106	Corporate Writing and Editing	CLB006	Teaching Reading and Writing
KWB206	Youth and Children's Writing	CLB320	Studies In Language
Dance		CLB323	Teaching Adolescent Literature
		CLB347	Teaching English as an Additional Language
Dance- Se		CLB441	Children's Literature
KDB105	Architecture of the Body	EDB001	Teaching and Learning Studies 1: Teaching in
KDB110	Deconstructing Dance in History	EDB007	New Times Culture Studies: Indigenous Education
Dance- Semester 2			
KDB106 Dance Analysis		Education	: Early Childhood

Education: Early Childhood- Semester 1			http://www.studentservices.qut.edu.au/enrol/course/spec_req/bluecard.jsp
EAB001	Early Childhood Foundations 1: Historical and Comparative Perspectives of EC Education		· - · · · · · · · · · · · · · · · · · ·
E A D O O E	·	Field Studi	ies- Secondary Education
EAB005 EAB006	Inclusion in Early Childhood Settings Leadership and Management in Early	EDB002	Teaching and Learning Studies 2: Development and Learning
	Childhood Services	EDB031	Secondary Field Studies 1
EAB008	Early Childhood Language, Literacies and Communication I		Plus 2 Curriculum Studies Units from the following list (corresponding with your
EAB013	Early Childhood Society Environment and		approved teaching areas)
	Health Education	CLB051	Business Education Curriculum Studies 1
EAB016	Research in Early Childhood Education	MDB015	Computing Curriculum Studies 1
EAB027	Early Childhood Mathematics Education 1: Birth to Six Years	CLB018	English Curriculum Studies 1
EDB006	Learning Networks	CLB021	English as a Second Language Curriculum Studies 1
Education:	Early Childhood- Semester 2	CLB024	Film and Media Curriculum Studies 1
EAB002	Early Childhood Foundations 2: Families and	HMB292	Health Education Curriculum Studies 1
	Childhoods in EC Education and Care	PUB343	Home Economics Curriculum Studies 1
EAB003	Development and Learning in Early Childhood	CLB036	LOTE Curriculum Studies 1
EAB011	Early Childhood Curriculum: Arts 1	MDB021	Mathematics Curriculum Studies 1
EAB015	Early Childhood Science and Technology Education	HMB231	Physical Education Curriculum Studies 1
EAB021	Early Childhood Health, Safety, Nutrition and	MDB031	Science Education Curriculum Studies 1
EADUZ I	Wellness Education	CLB054	Social Education Curriculum Studies 1
EAB022	Early Childhood Science Education	Field Studi	ies- Primary Education
EAB023	Mathematical Explorations in Early Childhood	EDB002	Teaching and Learning Studies 2:
EAB028	Early Childhood Mathematics Education 2: Four to 8 Years		Development and Learning
EAB361	Storytelling In Early Childhood	EDB021	Primary Field Studies 1: Development and Learning in the Field
EAB363	Creating Curriculum With Young Children	KKB202	Teaching Primary Dance and Drama
Education Field Studies		MDB006	Teaching Primary Science
		Field Studi	ies- Early Childhood Education

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

Field Studie	es- 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

Semester 1		
MDB001	Foundation: Scientific and Quantitative Literacy	
MDB004	Teaching Primary ICT	
MDB005	Teaching Primary Design and Technology	

MDB006	Teaching Primary Science	DLB645	Landscape Practice and Law
MDB120	Mathematics Curriculum and Pedagogies	DLB810	Landscape Planning and Policy
MDB349	Excursions in Mathematical Reasoning	DNB201	Industrial Design 2
MDB388	Numeracy in Games of Skill and Chance	DNB202	Product Usability
MDB391	Earth And Space	DNB402	Socio-cultural Studies
		DNB602	New Product Development
Education: Semester 2	Mathematics, Science and Technology-	DTB201	Interior Design 2
MDB002	Teaching Primary Mathematics 1	DTB202	Design Technology
MDB030	Understanding and Educating Gifted Learners	DTB402	Interior Systems
MDB349	Excursions in Mathematical Reasoning	DTB403	Human Environment
MDB397	Digital Media in Education	DTB602	Design in Society

Engineering Design

MDB454

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**

Science, Technology and Society

DTB502	Environments in Transition
Engineering	g 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

Engineering Systems

Engineering Systems- Semester 1

Engineering	g 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
END 444	Analical Income Ducascina

Applied Image Processing

ENB441

	FACULTY OF SCIENC	E AND	TECHNOLOGY
ENB443	Space Technology	ENB447	Navigation Systems For Aircraft
ENB451	Aerospace Radio and Radar Systems	ENB448	Signal Processing and Filtering
ENB455	Power Electronics	ENB448	Signal Processing and Filtering
ENB471	Design of Concrete Structures and	ENB452	Advanced Power Systems Analysis
END 470	Foundations	ENB457	Controls, Systems and Applications
ENB473	Design and Construction of Multi-storey Buildings	ENB458	Modern Control Systems
ENB478	Advanced Water Engineering	ENB472	Project Engineering 2
ENB485	Advanced Geotechnical Engineering Practice	ENB474	Finite Element Methods
Engineerir	og Customa Competer 2	ENB481	Civil Engineering Project Management
ENB103	ng Systems- Semester 2 Electrical Engineering	Entertainr	nent
ENB121	Aerodynamics		
ENB201	Fluid Mechanics		nent- Semester 1
ENB215	Fundamentals of Mechanical Design	KWB102	Media Writing
ENB222	Thermodynamics 1	KXB101	Introduction to Entertainment
ENB241	Software Systems Design	KXB201	Entertainment Practice: Balancing Creativity and Business
ENB243	Linear Circuits and Systems		
ENB244	Microprocessors and Digital Systems		nent- Semester 2
ENB245	Introduction To Design and Professional	KXB102	Global Entertainment
	Practice	Fashion	
ENB274	Design of Environmentally Sustainable Systems	Fashion-	Semester 1
ENB275	Project Engineering 1	KFB103	Introduction to Fashion
ENB276	Structural Engineering 1	KFB107	Drawing for Fashion
ENB312	Dynamics of Machinery	KFB206	Fashion and Modernity
ENB318	Biomechanical Engineering Systems	111 5200	T dollar drid Wederling
ENB321	Fluids Dynamics	Fashion- Semester 2	
ENB322	Biofluids	KFB106	Unspeakable Beauty: A History of Fashion and Style
ENB334	Design For Manufacturing	KFB207	Contemporary Fashion
ENB335	Modelling and Simulation For Medical Engineers		and New Media
ENB336	Industrial Engineering	Timi, TV and New Media	
ENB338	Biomaterials	Film, TV a	and New Media- Semester 1
ENB344	Industrial Electronics	KPB101	Introduction to Film, TV and New Media Production
ENB346	Digital Communications	KPB104	Film and Television Production Resource
ENB347	Modern Flight Control Systems	14 5101	Management
ENB352	Communication Environments For Embedded	KPB109	Film and TV History
ENDOSE	Systems Advanced Systems Region	KPB113	TV and Film Text Analysis
ENB355 ENB356	Advanced Systems Design	KPB203	Australian Film
	Military Combat Electronics	Film. TV a	and New Media- Semester 2
ENB373 ENB376	Design and Construction of Steel Structures Transport Engineering	KPB101	Introduction to Film, TV and New Media
ENB377	Water and Waste Water Treatment	1/22/110	Production
	Engineering	KPB110	The Movie, TV & New Media Business
ENB384	Design of Masonry Structures	KPB112	TV and Film Genres
ENB422	Energy Management	KPB205	Documentary Theory and Practice
ENB437	Health Legislation in the Medical Environment	KPB206	International Cinema
ENB444	Spacecraft Guidance and Navigation	Games an	nd Interactive Entertainment
ENB446	Wireless Communications	Gamos ar	nd Interactive Entertainment- Semester 1
		Carries ai	ia intoractive Entertainment- Demester 1

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INB180	Computer Games Studies	HMB172	Nutrition and Physical Activity
INB280	Fundamentals of Game Design	HMB278	Foundations of Movement for Educators
INB281	Advanced Game Design	HMB315	Games Based Learning in Physical Activity and Sport
Games and	d Interactive Entertainment- Semester 2	HMB333	Child and Adolescent Health
INB181	Introduction to Games Production	Indigenous	s Studios
INB272	Interaction Design	maigenous	ottatios
Geography	<i>'</i>		Studies- Semester 1
Geography	y- Semester 1	EDB038	Indigenous Australian Culture Studies
CLB109	World Regions	EDB039	Indigenous Politics and Political Culture
CLB109 CLB110	Environment and Society	EDB040	Indigenous Knowledge: Research Ethics and Protocols
CLB110 CLB111	Environmental Hazards		
		· ·	Studies- Semester 2
CLB112	South East Asia in Focus	EDB039	Indigenous Politics and Political Culture
CLB113 CLB114	Australian Geographical Studies Geography in the Field	EDB040	Indigenous Knowledge: Research Ethics and Protocols
Geography	y- Semester 2	Information	n Technology
CLB109	World Regions	1.6. ()	T
CLB110	Environment and Society		Technology- Semester 1
CLB111	Environmental Hazards	INB101	Impact of IT
CLB114	Geography in the Field	INB102	Emerging Technology
	Goography in the Flora	INB104	Building IT Systems
History		INB271	The Web
History- Se	amester 1	INB300	Professional Practice in IT
CLB101	Australian Society and Culture	INB301	The Business of IT
CLB101 CLB102	Australian Historical Studies	INB335	Information Resources
CLB102 CLB103		INB345	Mobile Devices
	Interpreting the Past	INB347	Web 2.0 Applications
CLB104	Colonialism and Independence in Asia-Pacific	INB385	Multimedia Systems
CLB105	Australia and the South Pacific	INB860	Computational Intelligence for Control and
CLB106	Modern China		Embedded Systems
CLB107	The Classical World	Information	Technology- Semester 2
CLB108	Nations and Nationalism in Modern Europe	INB101	Impact of IT
History- Se	emester 2	INB102	Emerging Technology
CLB101	Australian Society and Culture	INB104	Building IT Systems
CLB102	Australian Historical Studies	INB250	Foundations of Computer Science
CLB104	Colonialism and Independence in Asia-Pacific	INB271	The Web
CLB105	Australia and the South Pacific	INB300	Professional Practice in IT
CLB107	The Classical World	INB301	The Business of IT
		INB335	Information Resources
Human Mo	vement Studies	INB346	Enterprise 2.0
Human Mo	ovement Studies- Semester 1	INB386	Advanced Multimedia Systems
HMB171	Fitness Health and Wellness		•
HMB305	Personal Health	Interactive	and Visual Design/Animation
HMB314	Alternative Physical Education	Interactive	and Visual Design/Animation- Semester 1
HMB338	Wellness Processes and Strategies	KIB101	Visual Communication
1 HVIDOOO	womiess i iocesses and onategres	KIB101	
Human Mo	vement Studies- Semester 2		Introduction to Web Design and Development
		KIB104	Digital Media

	FACULTY OF SCIENC	EAND	TECHNOLOGY
KIB108	Animation History and Practices	LWB144	Laws and Global Perspectives
KIB203	Introduction to 3D Computer Graphics	Literary a	nd Cultural Studies
KVB105 Drawing for Design		,	
Interactive	and Visual Design/Animation- Semester 2	Literary ar	nd Cultural Studies- Semester 1
KIB101	Visual Communication	KWB208	Modern Times (Literature and Culture in the 20th Century)
KIB104	Digital Media	KWB209	Shakespeare, Then and Now
KIB105	Animation and Motion Graphics		<u> </u>
Journalisn	•	•	nd Cultural Studies- Semester 2
Journalish		KWB108	Introduction To Literary Studies
Journalism	n- Semester 1	KWB109	Writing Australia
KJB101	Digital Journalism	Managem	ent and International Business
KJB120	Newswriting		
KJB239	Journalism Ethics and Issues	9	ent and International Business- Semester 1
lournalism	n- Semester 2	MGB207	Human Resource Issues and Strategy
KJB101	Digital Journalism	MGB223	Entrepreneurship and Innovation
KJB101	Newswriting	MGB225	Intercultural Communication and Negotiation Skills
KKB175	Creative Industries Legal Issues	BSB115	Management
ICICDITS	Creative industries Legal issues	BSB119	Global Business
Justice St	udies	AMB210	Importing and Exporting
Justice Str	udies- Semester 1		
JSB171	Justice and Society	9	ent and International Business- Semester 2
JSB172	Professional Criminological Research Skills	MGB207	Human Resource Issues and Strategy
JSB175	Social Ethics and the Justice System	MGB223	Entrepreneurship and Innovation
JSB272	Theories of Crime	MGB225	Intercultural Communication and Negotiation Skills
JSB273	Crime Research Methods	BSB115	Management
JSB274	Policing in Context	BSB119	Global Business
JSB371	Indigenous Justice	AMB210	Importing and Exporting
JSB373	Punishment and Penal Policy	Media and	I Communication
JSB415	Advanced Research Management	inound and	
JSB971	Gender Crime and the Criminal Justice System	Media and	Communication- Semester 1
Justice Stu	udies- Semester 2	KCB101	Introduction to Media and Communication: Texts
JSB174	Forensic Psychology and the Law	KCB102	Media Myth Busting 1
JSB271	Policy Governance and Justice	KCB102 KCB103	Strategic Speech Communication
JSB374	Crime Prevention	KCB110	Introduction to Mass Communication
JSB376	Information Management and Analysis	KCB203	Consumption Matters: Consumer Cultures and
JSB377	Intelligence and Security	NOBLOO	Identity
	monigonee and ecounty	KCB205	Professional Communication
Law		Media and	Communication- Semester 2
Law- Seme	ester 1	KCB101	Introduction to Media and Communication:
LWB145	Legal Foundations A		Texts
LWB146	Legal Foundations B	KCB103	Strategic Speech Communication
LWB142	Law, Society and Justice	KCB104	Media and Communications: Industries
Law- Seme	ostor 2	KCB105	Media Myth Busting 2
LWB145	Legal Foundations A	KCB202	New Media 2: Applications and Implications
LWB145 LWB146	Legal Foundations B	KCB203	Consumption Matters: Consumer Cultures and Identity
LVVD 140	Logar i oundations D		

FACULTY OF SCIENCE AND TECHNOLOGY KCB205 **Professional Communication PUB113** Design and Technology **PUB251** Contemporary Public Health **Music and Sound Studies** Sustainable Environments For Health **PUB332** Music and Sound Studies- Semester 1 **PUB474** Food Science KMB003 Sex Drugs Rock 'N' Roll **PUB514** Contract/Project Management KMB004 World Music Public Health- Semester 2 KMB119 Music and Sound Production 1 PUB201 Food and Nutrition KMB122 Music and Sound Concepts 1 **PUB209** Health, Culture and Society KMB200 Music Scenes and Subcultures PUB251 Contemporary Public Health Music and Sound Studies-Semester 2 **PUB321 Textile Studies** KMB107 Sound, Image, Text **PUB355 Hospitality Studies PUB336** Women's Health **Network Systems** PUB480 Health Administration Finance Network Systems- Semester 1 **PUB609** Health Resource Allocation INB251 Networks **PUB611** Risk Management **INB255** Security **Science and Mathematics INB312 Enterprise Systems Applications** INB350 Internet Protocols and Services Science and Mathematics- Semester 1 **INB353** Wireless and Mobile Networks SCB112 Cellular Basis of Life **INB355** Cryptology and Protocols SCB110 Science Concepts and Global Systems SCB111 Chemistry 1 Network Systems- Semester 2 SCB121 Chemistry 2 **INB251** Networks MAB101 Statistical Data Analysis 1 **INB351 Unix Network Administration** MAB105 **Preparatory Mathematics** INB352 **Network Planning** Statistical Modelling 1 MAB210 Systems Programming **INB365** MAB120 Algebra and Calculus **Psychology and Counselling** Calculus and Differential Equations MAB121 MAB122 Algebra and Analytic Geometry Psychology and Counselling- Semester 1 MAB125 Foundations of Engineering Mathematics **PYB000** Psychology in Professional Contexts MAB126 Mathematics for Engineering 1 **PYB007** Interpersonal Processes and Skills MAB127 Mathematics for Engineering 2 PYB012 Psychology **PYB100** Foundation Psychology Science and Mathematics- Semester 2 **PYB054** Psychology and Gender SCB112 Cellular Basis of Life NQB201 Planet Earth Psychology and Counselling- Semester 2

NQB202 History of Life on Earth **PYB007** Interpersonal Processes and Skills SCB123 Physical Science Applications PYB067 **Human Sexuality** SCB111 Chemistry 1 PYB012 Psychology SCB121 Chemistry 2 **PYB100** Foundation Psychology MAB101 Statistical Data Analysis 1 PYB110 Psychological Research Methods MAB105 **Preparatory Mathematics** PYB102 Introduction to Psychology 1B MAB210 Statistical Modelling 1 **PYB203 Developmental Psychology** MAB120 Algebra and Calculus **Public Health** MAB121 Calculus and Differential Equations MAB122 Algebra and Analytic Geometry Public Health- Semester 1 MAB125 Foundations of Engineering Mathematics PUB104 Australian Health Care Systems MAB126 Mathematics for Engineering 1

Family Influences on Health and Development

PUB105

MAB127	Mathematics for Engineering 2	INB320	Business Process Modelling
Social Work and Human Services		INB341	Software Development With Oracle
Social Work and Haman Services		INB372	Agile Software Development
Social Work and Human Services- Semester 1		INB374	Enterprise Software Architecture
SWB100 Introduction to Human Services and Social Work		INB382	Real Time Rendering Techniques
SWB102	The Human Condition	Urban De	velopment
SWB105	Introduction to Human Rights and Ethics	Urban Dev	velopment- Semester 1
SWB106	Applied Skills and Scholarship	UDB101	Stewardship of Land
SWB212	Community Work	UDB110	Residential Construction and Engineering
SWB221	Social Work Processes and Methods	UDB111	Engineering Construction Materials
SWB223	People, Society and Social Work	UDB140	Property Valuation 1
SWB312	International Social Work	UDB161	Introduction to Planning and Design
Social Wo	rk and Human Services- Semester 2	UDB162	History of Built Environment
SWB103	Contemporary Social and Community Issues	UDB181	Geospatial Positioning and GPS
SWB105	Introduction to Human Rights and Ethics	UDB210	Commercial Construction and Engineering
SWB106	Applied Skills and Scholarship	UDB211	Introductory Structural Engineering
SWB200	Working in Human Service Organisations	UDB213	Construction Estimating
SWB204	Child and Family Services: Introduction	UDB216	The Environment and the Quantity Surveyor
SWB206	Disability Services: Introduction	UDB240	Planning Theory and Processes
SWB207	Services to Young People: Introduction	UDB241	Property Law 1
SWB211	Casework and Case Management	UDB242	Property Valuation 2
SWB214	Team Practice and Group Processes	UDB243	Property Economics
SWB216	The Human Dimensions of Space	UDB265	Site Planning
SWB218	Social Change, Politics, Policy and Activism	UDB266	Planning Processes and Consultations
SWB219	Ethical and Legal Dimensions of Human Services and Social Work	UDB281	Geographic Information Systems
	Services and Social Work	UDB283	Surveying Computations
SWB300	Current Developments in Human Services	UDB285	Cadastral Surveying
SWB302	Social Policy Processes	UDB310	Highrise Construction and Engineering
Software /	Architecture	UDB311	Structural Engineering Design
		UDB312	Contract Administration
	Architecture- Semester 1	UDB313	Programming and Scheduling
INB270	Programming	UDB340	Agency Practice and Marketing
INB312	Enterprise Systems Applications	UDB341	Property Finance
INB321	Business Process Management	UDB342	Real Estate Accounting and Taxation
INB322	Information Systems Consulting	UDB368	Urban Design
INB340	Database Design	UDB381	Geospatial Mapping
INB370	Software Development	UDB383	Control Surveying and Analysis
INB371	Data Structures and Algorithms	UDB385	Cadastral and Land Management
INB373	Web Application Development	UDB387	Spatial and Land Information Management
INB381	Modelling and Animation Techniques	UDB471	Urban Planning Practice
Software A	Architecture- Semester 2	UDB473	Planning Theory and Ethics
INB210	Databases	UDB483	Global Positioning Principles and Practice
INB270	Programming	UDB485	Property Development Practice
INB272	Interaction Design	Urhan De	velopment- Semester 2
INB311	Enterprise Systems	UDB102	Applied Law
INB313	Electronic Commerce Site Development	UDB102	Urban Development Economics
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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

Photomedia and Artistic Practice

Contemporary Asian Visual Culture

KVB103

KVB104

KVB108

KVB211

Australian Art

Post 1945 Art