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 - Deans Scholars Program
IX25 Bachelor of Engineering (Software Engineering)
LS37 Bachelor of Applied Science (Medical Science)
LS50 Bachelor of Biotechnology Innovation
MA54 Bachelor of Mathematics
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
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
IF29 Bachelor of Applied Science/Bachelor of Information Technology
IF38 Bachelor of Information Technology/Bachelor of Laws
IF39 Bachelor of Applied Science/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
IF60 Bachelor of Mathematics/Bachelor of Business (Accountancy, Banking and Finance or Economics)
IF61 Bachelor of Applied Science/Bachelor of Business
IF84 Bachelor of Applied Science/Bachelor of Education (Primary)
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
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

IT73 Graduate Certificate in Information Management (Library Studies)(refer to IT43)
IT74 Graduate Certificate in Information Management (Information and Knowledge Management)
IT75 Graduate Certificate in Information Management (Records Management)

IT76 Graduate Certificate in Information Management (Web Management)
IT85 Graduate Certificate in Information Technology
IT89 Graduate Certificate in Information Technology (Wireless Games 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
NR45 Graduate Certificate In Plant Biosecurity
PH60 Graduate Certificate in Applied Science (Breast Ultrasound)
PH62 Graduate Certificate in Lighting (on-shore)
PH63 Graduate Certificate in Lighting (off-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
NR55 Graduate Diploma In Plant Biosecurity
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 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)
IT74 Graduate Certificate in Information Management (Information and Knowledge Management)
IT75 Graduate Certificate in Information Management (Records Management)
IT76 Graduate Certificate in Information Management (Web Management)
IX99 Master of Research and Development Management
LS86 Master of Biotechnology
LS96 Master of Biotechnology (Advanced)
MA85 Master of Mathematical Science
NR65 Master of Plant Biosecurity
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

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)

Foundation Programs

QC01 Accelerated Foundation
QC02 Standard Foundation
QC04 Extended Foundation

University Certificate

QC05 University Certificate In Tertiary Preparation

University wide unit sets

Unit sets: Accounting, Economics and Finance
Unit sets: Advertising, Integrated Marketing Communication, Logistics, Marketing and Public Relations
Unit sets: Built Environment and Design
Unit sets: Communication
Unit sets: Creative Industries
Unit sets: Engineering
Unit sets: Entertainment
Unit sets: Entrepreneurship, Human Resource Management and Management
Unit sets: Natural Resource Sciences
Unit sets: Faculty of Health
Unit sets: International Business, Languages, and Tourism and Entertainment Marketing
Unit sets: International Exchange
Unit sets: Justice and Law
Unit sets: Mathematical Sciences
Unit sets: Multimedia and Technologies
Unit sets: Physical and Chemical Sciences
Unit sets: Science
Unit sets: Society and Culture
Unit sets: Urban Development and Construction

OVERVIEW

Science and technology are the engines of growth and wellbeing in modern society, so if you want to have a rewarding and exciting career then get yourself a degree from the Faculty of Science and Technology at QUT.

Graduates with degrees from the Faculty can end up in diverse professions anywhere in the world and can work as pharmacists, radiation therapists, forensic scientists, biotechnologists, industrial chemists, games designers and developers, business analysts, software engineers, IT consultants, animators, film and television special effects developers, information managers, web developers, database managers or network administrators, to name just a few.

We combine teaching excellence and ground-breaking research with strong industry links and a global perspective to give you the opportunity to help us change the world.

Academic learning is complemented by strong practical components, including: laboratory programs, industry internships and student projects undertaken jointly with industry. Students have the opportunity to engage in real-world activities appropriate to their discipline, for example clinical attachments in the medical science and technology fields, or best practice training in our CISCO networking academy.

Our courses combine sophisticated knowledge and professional competence with the development of skills in problem-solving, communication and team work. We frequently consult industry leaders to ensure our courses are world-class. First year students receive special attention and our graduates are among the most employable in the world.

The Faculty is active within all of QUT's research institutes, including:

- Institute of Health and Biomedical Innovation (www.ihbi.qut.edu.au)
- Information Security Institute (www.isi.qut.edu.au)
- Institute for Creative Innovation (www.ici.qut.edu.au)
- Institute of Sustainable Resources (www.isr.qut.edu.au)

We help to provide global solutions in the areas of Energy, Environment, Food, Health, Information and Security.

Our researchers and lecturers are internationally renowned for their achievements in science and technology. With our first class facilities and diverse fields of study you'll find the ideal environment to advance your educational, professional, and research goals.

The Faculty of Science and Technology has world-leading collaborations with major corporations. These links underpin our excellence in research and teaching. Just a few examples include collaboration with Bill and Melinda Gates Foundation to improve the health of children in Africa; with Syngenta Corporation to make biofuels from sugar cane; and with SAP to transform research and teaching capabilities in Universities across the Asia-Pacific region.

To fast-track your studies, we offer a Dean's Scholars Accelerated Honours Program for high-achieving students and industry work placements which provide students with the opportunity to learn a salary while progressing through their degrees.

Double degree options are available as part of a flexible program of academic studies.

A range of courses are offered across 10 disciplines:

- Biogeoscience
- Cell & Molecular Biosciences
- Chemistry
- Computer Science
- Information Sciences
- Mathematical Sciences
- Medical Radiation Sciences
- Medical Sciences
- Pharmacy
- Physics

Biogeoscience

The Biogeoscience discipline offers major studies in environmental science, ecology and geoscience, complemented by co-majors in biodiversity, and applied geology, with a clear focus on climate change.
www.scitech.qut.edu.au/about/disciplines/biogeosci.

Cell & Molecular Biosciences

The Cell & Molecular Biosciences discipline offers innovative undergraduate and postgraduate courses with a multi–disciplinary approach to study in the areas of Applied Microbiology, Biochemistry, Biomolecular Sciences and Biotechnology.

All courses offer a combination of face–to–face tutorials, laboratory work and computer studies which gives students a competitive edge when entering the workforce and places them in an excellent position to move into research. For more information visit:
www.scitech.qut.edu.au/about/disciplines/molecularsci.

Chemistry

Chemistry is the study of the structure, properties, synthesis and reactions of materials. The discipline offers innovative undergraduate and postgraduate courses with a multi–disciplinary approach to the study of physical, organic and inorganic chemistry.

A Chemistry major allows you to gain an appreciation of the fundamental discipline – but with an additional focus on modern applications such as drug discovery, analytical and environmental chemistry, polymer science and surface science. Major studies are in the areas of Applied Chemistry, Forensic Science and Industrial Chemistry.

QUT is among the few universities in Australia with a first year subject (Experimental Chemistry) devoted entirely to experimental techniques. Students have a total of 10 laboratory session in this subject and are exposed to a wide variety of experimental techniques. All third year

chemistry students will undertake a one semester research project under the guidance of experienced staff.

Students will be trained in state–of–the–art techniques and will have the opportunity to pursue a field of interest to them. Our training in analytical chemistry throughout the chemistry degree is nationally renowned. For more information visit:

www.scitech.qut.edu.au/about/disciplines/chemistry

Computer Science

The Computer Science discipline offers courses in the area of Information Technology, with majors in Games Design, Games Production, Network Management, Security, and Software Architecture. For more information visit: www.scitech.qut.edu.au/about/disciplines/compsci

Information Sciences

The Information Sciences discipline offers courses in the areas of Corporate Systems Management, and Games and Interactive Entertainment. Majors may be undertaken in: Digital Environments, Enterprise Systems, Executive Information Practice, Information Management, Library and Information Science (on–line), and Business Process Management. For more information visit:
www.scitech.qut.edu.au/about/disciplines/infosci

Mathematical Sciences

The Mathematical Science discipline offers studies in applied mathematics, mathematical finance, applied statistics, scientific computation and visualisation, and operations research. There is an emphasis on the applications of mathematics, and many of the units are enriched by examples from business and industry. For more information visit:
www.scitech.qut.edu.au/about/disciplines/mathsci

Medical Radiation Sciences

The Medical Radiation Sciences discipline offers innovative undergraduate and postgraduate courses with a multi–disciplinary approach to the study of medical imaging technologies. Major studies are in the areas of Medical Imaging Radiography and Radiation Therapy. For more information visit:
www.scitech.qut.edu.au/about/disciplines/medradiation

Medical Sciences

The Medical Sciences discipline administers the Bachelor of Applied Science (Medical Science) with units in biochemistry, microbiology and pathology, and major studies are in the areas of Immunology, Haematology and Histopathology.

The Bachelor of Applied Science (Medical Science) leads to a range of exciting career opportunities in the field of medical science. The degree is the preferred qualification for employment in the pathology industry as a medical scientist, giving you practical experience in the most up–to–date diagnostic techniques and the opportunity to learn from current professionals in the workplace. For more information visit:
www.scitech.qut.edu.au/about/disciplines/medicalsci

Pharmacy

The Pharmacy discipline offers courses with a multi–disciplinary approach to the study of human anatomy, pharmacy practice, and pharmaceuatical chemistry and pharmacology. 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 healthcare sector by dispensing medications and counselling patients on their appropriate use. For more information visit:
www.scitech.qut.edu.au/about/disciplines/pharmacy

Physics

Physics is the science discipline dealing with natural laws and processes, and the states and properties of matter and energy. The discipline offers courses focused on the study of mechanics, electromagnetism, lasers and modern optics, computational physics, nuclear and radiation physics, quantum mechanics and relativity.

Major studies are in the areas of Applied Physics, Astrophysics and Lighting. For more information visit:
www.scitech.qut.edu.au/about/disciplines/physics

Further information

For information about the Faculty of Science and Technology visit: www.scitech.qut.edu.au or email:

enquiry.scitech@qut.edu.au

SENIOR STAFF

Faculty office

Executive Dean: Professor S.M. Kaplan, BSc PhD *Cape Town*, FACS, HonFIEAust, MACM

Assistant Dean (Research & Commercialisation): Professor M.N. Sillence, *BSc (Hons)* CertEd PhD *Leeds*

Assistant Dean (Teaching and Learning): Associate Professor S.L. Edwards, DipLib *RMIT*, GCEd(HE) MIT(Res) PhD *QUT*, AALIA, MACS

Faculty Manager: G. Keys, BSc (CompSci) *Qld*, GradCert (Bus) *QUT*

Postgraduate Coordinator: Associate Professor T.P. Walsh, BSc (Hons) PhD *Qld*

Portfolio Coordinator: Professor D.A. Gust, BA *Lawrence*, MA *Rice*, PhD *ANU* (Cell & Molecular Biosciences, Medical Sciences, Chemistry, Pharmacy, Biogeoscience)

Discipline Heads

Biogeoscience

Discipline Leader: Professor P.B. Mather, BSc (Hons) PhD *Lot*
Phone: + 61 7 3138 1737
Email: p.mather@qut.edu.au

Cell and Molecular Biosciences

Discipline Leader: Professor Z. Upton, BSc (Hons) PhD *Adel.*
Phone: + 61 7 3138 6185
Email: z.upton@qut.edu.au

Chemistry

Discipline Leader: Associate Professor G. Ayoko, BSc (Hons) MSc *A.Bello*, DPhil *Sus.*, MRACI, CChem, MRSC
Phone: + 61 7 3138 2586
Email: g.ayoko@qut.edu.au

Computer Sciences

Discipline Leader: Associate Professor S. Geva, BSc Hebrew *Jerusalem*, MAppSc, PhD *QUT*, MACM
Phone: + 61 7 3138 1920
Email: s.geva@qut.edu.au

Information Sciences

Discipline Leader: Professor M.Rosemann, MBA PhD *Univ of Münster Germany*
Phone: + 61 7 3138 9473
Email: m.rosemann@qut.edu.au

Mathematical Sciences

Discipline Leader: Professor I.W. Turner, BAppSc (Maths), MAppSc (Maths) *QIT*, PhD *Qld*
Phone: + 61 7 3138 2259
Email: i.turner@qut.edu.au

Medical Radiation Sciences

Discipline Leader: Associate Professor P. Rowntree, DipAppSc (DiagRad) GradDipEd (Tert) *S.Qld*, FIR, AISRRT
Phone: + 61 7 3138 2346
Email: p.rowntree@qut.edu.au

Medical Sciences

Discipline Leader: Associate Professor D.G. Harkin, BSc (Hons) PhD *Adel.*
Phone: + 61 7 3138 6184
Email: d.harkin@qut.edu.au

Pharmacy

Discipline Leader: Associate Professor F.B. Ross, BSc (Hons) PhD *Qld*
Phone: + 61 7 3138 2502
Email: fb.ross@qut.edu.au

Physics

Discipline Leader: Professor C.M. Langton, BSc (Hons), MSc, PhD, DSc, FInstP, FIPEM, FAIMBE, CEng
Phone: + 61 7 3138 2002
Email: christian.langton@qut.edu.au

RESEARCH CENTRE

QUT has a focus on applied research, with a mission to solve real-world problems for industry and the community. We are committed to tackling issues of global importance, and base our research around six themes concerning health, food, energy, the environment, information and security.

Research on these critical issues occurs through the collaborative efforts of ten disciplines, including:

- Biogeoscience
- Cell & Molecular Biosciences
- Chemistry
- Computer Science
- Information Sciences
- Mathematical Sciences
- Medical Radiation Science
- Medical Sciences
- Pharmacy
- Physics

Biogeoscience

- Earth and Environmental Systems
- Soil, Air and Water Systems
- Biological Systems

The Biogeoscience discipline is associated with QUT's Institute for Sustainable Resources. Its members conduct research into climate change, air and water quality, animal and plant ecology, and geological systems.

Discipline Leader: Professor Peter Mather
Phone: + 61 7 3138 1737
Email: p.mather@qut.edu.au

Cell and Molecular Biosciences

- Tissue Repair and Regeneration
- Infectious Diseases
- Hormone Dependant Cancer
- Applied Microbiology

Researchers in the Cell & Molecular Bioscience discipline works in collaboration with QUT's Institute for Health and Biomedical Innovation – where scientists, engineers and health professionals work together on problems such as infectious diseases, cancer and wound healing.

Discipline Leader: Professor Zee Upton
Phone: + 61 7 3138 6185
Email: z.upton@qut.edu.au

Chemistry

- Novel Materials and Nanotechnology
- Medical and Forensic Chemistry
- Polymers

The Chemistry discipline contains organic, inorganic and polymer chemists who develop novel materials ranging from solar cells and filtration systems, through to antioxidant compounds and materials to assist wound healing. Forensic and analytical chemistry is also a focus of this group.

Discipline Leader: Associate Professor Godwin Ayoko
Phone: + 61 7 3138 2586
Email: g.ayoko@qut.edu.au

Computer Sciences

- Critical Systems
- Smart Tools and Services

The Computer Sciences discipline is largely associated with QUT's Information Security Institute. The Smart Tools & Services group investigates the tools, theories and practices needed to make computer based systems work intelligently and efficiently, and to align these systems more closely to human needs. Our eResearch work looks at accelerating discovery in scientific research, particularly in bioinformatics and earth sciences, through smart software tools which enable the simple and rapid analysis of vast amounts of data and which support collaboration between scientists. Research is also being pioneered in the field of computer games and other forms of interactive entertainment where the recent explosion in their use has made multimedia content-rich social environments an integral part of the way we interact with technology.

Research in Critical Systems is concerned with implementing, analysing and managing the complexity of "critical" computer-based systems, including: Security-critical systems, that protect data confidentiality, privacy and integrity, Safety-critical systems, whose failure could result in life-threatening situations (e.g., traffic control, electronic healthcare, industrial automation and robotics, etc) and Mission-critical systems, which ensure enterprise viability (e.g., decision making tools, web services, maintenance principles, planning algorithms, etc).

Discipline Leader: Associate Professor Shlomo Geva
Phone: + 61 7 3138 1920
Email: s.geva@qut.edu.au

Information Sciences

- Information Systems
- Information Sciences
- Games Technology

Enterprise Systems research aims to support the effective provisioning of IT-mediated computer services within organisations and includes Business Process Management and workflow from an integrated organisational and technical perspective, the impact information systems have on organisational success and knowledge management within organisations.
Research in the Information Sciences explores the relationships between information, technology and users. This includes information behaviour research which looks at the cognitive and social factors that influence how users engage with online systems and information literacy and learning in academic, community and workplace settings.

Discipline Leader: Professor Michael Rosemann
Phone: + 61 7 3138 9473
Email: m.rosemann@qut.edu.au

Mathematical Sciences

- Statistical and Computational Methods
- Statistical and Mathematical Modelling
- Operations Research

Members of the Mathematical Sciences discipline collaborate on a wide variety of projects associated with the themes of energy, food, health and the environment. Mathematical modelling, the statistical and computational groups and operations research teams service a range of industries from the pharmaceutical sector through to forestry and energy companies.

Discipline Leader: Professor Ian Turner
Phone: + 61 7 3138 2259
Email: i.turner@qut.edu.au

Medical Radiation Sciences

- Ultrasound Technology
- X-ray Systems

Researchers in the Medical Radiation Sciences discipline focus their efforts on improving the accuracy of various imaging technologies, and training technicians in the operation of Ultrasound and X-ray systems.

Discipline Leader: Associate Professor Pamela Rowntree
Phone: + 61 7 3138 2346
Email: p.rowntree@qut.edu.au

Medical Sciences

- Tropical Health
- Cancer Mechanism
- Bone Research
- Proteomics
- Eye Research

The Medical Sciences discipline is largely associated with QUT's Institute of Health and Biomedical Innovation. Discipline staff focus their research efforts on tropical infectious disease; prostate, breast, ovarian and colon cancer; the function of hormones and hormone receptors in can-

cer; bone composition and fracture healing; tissue growth and repair; and retinal disease and eye carcinoma.

Discipline Leader: Associate Professor Damien Harkin
Phone: + 61 7 3138 6184
Email: d.harkin@qut.edu.au

Pharmacy

- Cardiovascular Pharmacology
- Drug Delivery Systems

Researchers in the Pharmacy discipline focus their efforts on characterising heart receptors (in particular Beta–Adreno Receptors), uncovering new knowledge to create more effective drugs in the treatment of chronic heart diseases; improving drug efficiencies through investigations into nasal delivery systems; and pharmacy communication and education.

Discipline Leader: Associate Professor Fraser Ross
Phone: + 61 7 3138 2502
Email: fb.ross@qut.edu.au

Physics

- Medical Physics
- Environmental Physics
- Applied Optics and Nanotechnology

The Physics discipline conducts research into medical imaging technologies in association with the Queensland Cancer Physics Collaborative, as well as studies into particle physics, optics, lighting and nanotechnology.

Discipline Leader: Professor Christian Langton
Phone: + 61 7 3138 2002

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

Year offered: 2010
Admissions: Yes
CRICOS code: 020329J
Course duration (full-time): 5 years
Domestic fees (indicative): 2010: CSP $2,800 (indicative) per semester
International Fees (indicative): 2010: $11,500 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 480
Standard credit points per full-time semester: 48
Course coordinator: Dr R.Mahalinga-Iyer (Engineering); Professor Helen MacGillivray (Science & Technology)
Discipline coordinator: Dr Bouchra Senadji (Engineering); Professor Helen MacGillivray (Mathematics Major)
Campus: Gardens Point

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.

Recommended study

Chemistry, Maths C and Physics are recommended.

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.

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.

Professional Recognition

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

Financial Support

You should consider applying for an industry-sponsored mathematics bursary or an engineering scholarship to help you financially throughout your studies. For further information visit www.scholarships.qut.edu.au

International Student Entry

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

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Further Information

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

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

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

Course structure - For students commencing in 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.

1, Semester 1

ENB100	Introducing Professional Learning
ENB120	Electrical Energy and Measurements
MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus

Year 1, Semester 2

ENB200	Introducing Sustainability

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Year 4, Semester 1

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

Year 4, Semester 2

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

Year 5, Semester 1

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

Year 5, Semester 2

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

Electrical Engineering Selectives

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 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	Introducing Professional Learning
ENB120	Electrical Energy and Measurements
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry

Year 1, Semester 2

ENB200	Introducing Sustainability
ENB130	Mechanical and Thermal Energy
MAB101	Statistical Data Analysis 1
MAB220	Computational Mathematics 1

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

ENB245	Introduction To Design and Professional Practice

Year 4, Semester 1

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

Year 4, Semester 2

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

Year 5, Semester 1

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

Year 5, Semester 2

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

Electrical Engineering Selectives

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)

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

Mathematics Electives (Level 3)

Four units required:

MAB521	Applied Mathematics 3
MAB522	Computational Mathematics 3
MAB524	Statistical Inference
MAB533	Statistical Techniques
MAB536	Time Series Analysis
MAB613	Partial Differential Equations
MAB623	Financial Mathematics
MAB624	Applied Statistics 3
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 2009 (Maths B only)

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

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

BEB200	Introducing Sustainability
ENB245	Introduction To Design and Professional Practice
ENB352	Communication Environments For Embedded

	Systems
MAB414	Applied Statistics 2

Year 4, Semester 1

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

Year 4, Semester 2

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

Year 5, Semester 1

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

Year 5, Semester 2

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

Electrical Engineering Selectives

ENB440	RF and Applied Electromagnetics
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB454	Power System Management
ENB455	Power Electronics
ENB456	Energy
ENB457	Controls, Systems and Applications
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

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

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

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Year 4, Semester 1

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

Year 4, Semester 2

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

Year 5, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1

	Electrical Engineering Selective
	Mathematics elective (Level 3)

Year 5, Semester 2

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

Electrical Engineering Selectives

ENB440	RF and Applied Electromagnetics
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB454	Power System Management
ENB455	Power Electronics
ENB456	Energy
ENB457	Controls, Systems and Applications
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

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

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

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Year 4, Semester 1

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

Year 4, Semester 2

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

Year 5, Semester 1

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

Year 5, Semester 2

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

Electrical Engineering Selectives

ENB440	RF and Applied Electromagnetics
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 2009 (Maths B and Maths C)

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

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

Year 1, Semester 2	
ENB101	Engineering Mechanics 1
ENB103	Electrical Engineering
MAB101	Statistical Data Analysis 1
MAB220	Computational Mathematics 1

Year 2, Semester 1	
ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB210	Statistical Modelling 1
MAB311	Advanced Calculus

Year 2, Semester 2	
BEB200	Introducing Sustainability
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
MAB413	Differential Equations

Year 3, Semester 1	
ENB242	Introduction To Telecommunications
ENB350	Real-time Computer-based Systems
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2	
ENB245	Introduction To Design and Professional Practice
ENB352	Communication Environments For Embedded Systems
MAB414	Applied Statistics 2
	Mathematics elective (Level 2)

Year 4, Semester 1	
ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
	Mathematics elective (Level 2)

Year 4, Semester 2	
ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
ENB458	Modern Control Systems
	Mathematics elective (Level 3)

Year 5, Semester 1	
BEB701	Work Integrated Learning 1
BEB801	Project 1
	Electrical Engineering Selective
	Mathematics elective (Level 3)

Year 5, Semester 2	
BEB802	Project 2
ENB344	Industrial Electronics
	Mathematics elective (Level 3)
	Mathematics elective (Level 3)

Electrical Engineering Selectives	
ENB440	RF and Applied Electromagnetics
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB454	Power System Management
ENB455	Power Electronics
ENB456	Energy
ENB457	Controls, Systems and Applications
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

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

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

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

Year 1, Semester 2	
ENB101	Engineering Mechanics 1
ENB103	Electrical Engineering
MAB101	Statistical Data Analysis 1
MAB210	Statistical Modelling 1

Year 2, Semester 1	
ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB220	Computational Mathematics 1
MAB311	Advanced Calculus

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

Year 3, Semester 1	
ENB242	Introduction To Telecommunications
ENB350	Real-time Computer-based Systems
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2	
ENB245	Introduction To Design and Professional Practice
ENB352	Communication Environments For Embedded Systems
MAB414	Applied Statistics 2
	Mathematics elective (Level 2)

Year 4, Semester 1	
ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
	Mathematics elective (Level 2)

Year 4, Semester 2	
ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
ENB458	Modern Control Systems
	Mathematics elective (Level 3)

Year 5, Semester 1	
BEB701	Work Integrated Learning 1
BEB801	Project 1
	Electrical Engineering Selective
	Mathematics elective (Level 3)

Year 5, Semester 2	
BEB802	Project 2
ENB344	Industrial Electronics
	Mathematics elective (Level 3)
	Mathematics elective (Level 3)

Electrical Engineering Selectives	
ENB440	RF and Applied Electromagnetics
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB454	Power System Management
ENB455	Power Electronics
ENB456	Energy
ENB457	Controls, Systems and Applications
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

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

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

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

Year 1, Semester 2	
ENB101	Engineering Mechanics 1
ENB103	Electrical Engineering
MAB101	Statistical Data Analysis 1
MAB220	Computational Mathematics 1

Year 2, Semester 1	
ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB210	Statistical Modelling 1
MAB311	Advanced Calculus

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

Year 3, Semester 1	
ENB242	Introduction To Telecommunications
ENB350	Real-time Computer-based Systems
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2	
ENB245	Introduction To Design and Professional Practice
ENB352	Communication Environments For Embedded Systems
MAB420	Computational Mathematics 2
MAB480	Introduction to Scientific Computation
	OR
	Computing Elective

Year 4, Semester 1	
ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
	Mathematics elective (Level 2)

Year 4, Semester 2	
ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
ENB458	Modern Control Systems
	Mathematics elective (Level 3)

Year 5, Semester 1	
BEB701	Work Integrated Learning 1
BEB801	Project 1
	Electrical Engineering Selective
	Mathematics elective (Level 3)

Year 5, Semester 2	
BEB802	Project 2
ENB344	Industrial Electronics
	Mathematics elective (Level 3)
	Mathematics elective (Level 3)

Electrical Engineering Selectives	
ENB440	RF and Applied Electromagnetics
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 Applied Science/Bachelor of Information Technology (IF29)

Year offered: 2010
Admissions: No
Course duration (full-time): 4 Years
Domestic fees (indicative): 2010: CSP $2,954 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419302
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 408 (Note: The minimum course load per semester required for full-time enrolment may be more than 36 credit points)
Standard credit points per full-time semester: 48
Course coordinator: Dr Perry Hartfield (Science); Ruth Christie(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

Career Opportunities

The course prepares you for an increasing range of careers that involve the application of information technology to science. As a graduate of the double degree, you are also qualified for employment in the areas of software engineering and data communications.

The Bachelor of Applied Science allows multi-disciplinary programs of study to help position you within the broad range of science disciplines and qualify you as a competent professional within your chosen field.

Recommended study

At least one of the sciences. For the majors in biochemistry, biotechnology, forensic science and microbiology - Biological Science and Chemistry are recommended; for the major in physics - Maths C is recommended.

Course Design

The science component of the course offers you a choice of one of the major areas of study available in the Bachelor of Applied Science (SC01) course. To allow you to complete the double degree in a shorter period of time, your co-major will be taken from the information technology program therefore it is not possible to choose any of the co-majors listed under the Bachelor of Applied Science course.

The information technology component gives you the opportunity to undertake a combined major in Data Communications and Software Engineering. Theoretical aspects are balanced by strong practical components in both of the Science and Information Technology degrees.

Professional Recognition

Graduates will satisfy the requirements for membership in the relevant professional body for their chosen science major. See the Bachelor of Applied Science (SC01) course for details. Graduates are also eligible for membership of the Australian Computer Society (ACS).

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.fit.qut.edu.au/

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

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

Information Systems Coordinator
Dr Alan Tickle
Phone: +61 7 3138 2782
Email: fit.enquiry@qut.edu.au

Discipline Coordinators

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

Biotechnology
Dr Marion Bateson
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Email: m.bateson@qut.edu.au

Chemistry
Dr Robert Johnson

Phone: +61 7 3138 2016
Email: ra.johnson@qut.edu.au

Ecology
Dr Ian Williamson
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Email: i.williamson@qut.edu.au

Environmental Science
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Email: r.thwaites@qut.edu.au

Forensic Science
Dr Emad Kiriakous
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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 Stephen Hughes
Phone: +61 7 3138 2327
Email: sw.hughes@qut.edu.au

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

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:

Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Data Communications Specialist, Economist, 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 Information Technology/Bachelor of Laws (IF38)

Year offered: 2010
Admissions: No
CRICOS code: 006385G
Course duration (full-time): 5 Years
Domestic fees (indicative): 2010: CSP rate 2010 available July 2009
International Fees (indicative): 2010: $11,500 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

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:

Faculty of Science and Technology
Phone +61 7 3138 2782
Fax +61 7 3138 2703
Email: enquiry.scitech@qut.edu.au

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

IT Elective Unit List

Information Technology Elective Unit List	
INB104	Building IT Systems
INB103	Industry Insights
INB270	Programming
INB210	Databases
INB250	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

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:

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

Bachelor of Applied Science/Bachelor of Laws (IF39)

Year offered: 2010
Admissions: No
CRICOS code: 012661G
Course duration (full-time): 5 Years
Domestic fees (indicative): 2010: CSP rate 2010 available July 2009
International Fees (indicative): 2010: $12,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419712
Past rank cut-off: 90
Past OP cut-off: 6
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 528 (Note: The minimum course load per semester required for full-time enrolment may be more than 36 credit points)
Standard credit points per full-time semester: 60 (years 1 and 4), 48 (years 2, 3 and 5)
Course coordinator: Dr Perry Hartfield (Science and Technology); Dr. Bill Dixon (Director Undergraduate Programs Law)
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

Career Opportunities

As a graduate, you may enter legal practice with an education in both the content and process of science and data analysis that will enable you to deal with the complexities of litigation that have a scientific and technological dimension, such as inventions, trade secrets, quantitative evidence, and constitutional disputes giving rise to environmental issues. On the other hand, you may choose to follow a career path in the sciences, enhancing your opportunities in a particular discipline such as environmental science or biotechnology through your knowledge of the law.

OP Guarantee

The OP Guarantee does not apply to this course.

Course Design

The course is designed to cover all major areas of the law as well as allowing students to choose any one of the science majors that are offered in the Bachelor of Applied Science (SC01) course.

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.

Professional Recognition

Graduates will satisfy the requirements of membership in the relevant professional body for their chosen science major. See the Bachelor of Applied Science (SC01) course for details. The Bachelor of Laws component covers the areas of law required for admission as a legal practitioner and/or barrister in all Australian states and territories.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

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

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
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Email: m.bateson@qut.edu.au

Chemistry
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Email: ra.johnson@qut.edu.au

Ecology
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Email: i.williamson@qut.edu.au

Environmental Science
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Forensic Science
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Email: e.kiriakous@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
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Email: c.knox@qut.edu.au

Physics
Dr Greg Michael
Phone: +61 7 3138 1584
Email: g.michael@qut.edu.au

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, Analytical Chemist, Astrophysicist, Barrister, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Crown Law Officer, Ecologist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, In-House Lawyer, 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, Social Scientist, Solicitor, Statistician, Virologist.

Bachelor of Business / Bachelor of Information Technology (IF48)

Year offered: 2010
Admissions: No
Course duration (full-time): 4 or 4.5 years
Domestic fees (indicative): 2010: CSP $3,800 (indicative) per semester
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 432
Standard credit points per full-time semester: 54 (average) for 8 semesters; 48 fpr 9 semesters
Course coordinator: Richard Thomas (Science and Technology); Dr Erica French(Business)
Discipline coordinator: Ms Ros Kent (Accountancy); Ms Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr Anup Basu (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Kavoos Mohannak (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

Course Structure - Accountancy (for students NOT seeking professional recognition)

Year 1, Semester 1	
BSB110	Accounting
BSB113	Economics
INB104	Building IT Systems
INB210	Databases

Year 1, Semester 2	
BSB115	Management
BSB123	Data Analysis
INB250	Systems Architecture
INB103	Industry Insights

Year 2, Semester 1	
	Choice of Faculty Core Unit
AYB200	Financial Accounting
INB270	Programming
	Intermediate Level IT Elective

Year 2, Semester 2	
EFB222	Quantitative Methods For Economics and Finance
	Choice of Faculty Core Unit
	IT Elective unit
	IT Elective unit

Year 3, Semester 1	
AYB340	Company Accounting
	Double Major/Extended Major/Specialisation unit
INB271	The Web
INB340	Database Design

Year 3, Semester 2	
AYB225	Management Accounting
	Double Major/Extended Major/Specialisation unit
INB311	Enterprise Systems
	IT Elective Unit

Year 4, Semester 1	
AYB221	Computerised Accounting Systems
	Double Major/Extended Major/Specialisation unit
	IT Elective Unit
	IT Elective Unit

Year 4, Semester 2	
AYB301	Audit and Assurance
	Double Major/Extended Major/Specialisation unit
INB301	The Business of IT
	IT Elective Unit

Year 5, Semester 1	
	Double Major/Extended Major/Specialisation unit
	Double Major/Extended Major/Specialisation unit
INB302	Capstone Project
	IT Elective Unit

Business Core Unit list	
	Student must choose 2 units from the following:
BSB111	Business Law and Ethics
BSB119	Global Business
BSB124	Working in Business
BSB126	Marketing

Important Note:
Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course Structure - Accountancy (for students seeking professional recognition)

Year 1, Semester 1

BSB110	Accounting
BSB113	Economics
INB104	Building IT Systems
INB210	Databases

Year 1, Semester 2

BSB115	Management
BSB111	Business Law and Ethics
INB250	Systems Architecture
INB103	Industry Insights

Year 2, Semester 1

BSB123	Data Analysis
AYB200	Financial Accounting
INB270	Programming
	Intermediate Level IT Elective

Year 2, Semester 2

BSB124	Working in Business
EFB222	Quantitative Methods For Economics and Finance
	IT Elective unit
	IT Elective unit

Year 3, Semester 1

AYB340	Company Accounting
EFB210	Finance 1
INB271	The Web
INB340	Database Design

Year 3, Semester 2

AYB221	Computerised Accounting Systems
AYB230	Corporations Law
INB311	Enterprise Systems
	IT Elective Unit

Year 4, Semester 1

AYB311	Financial Accounting Issues
AYB225	Management Accounting
	IT Elective Unit
	IT Elective Unit

Year 4, Semester 2

AYB301	Audit and Assurance
AYB219	Taxation Law
INB301	The Business of IT
	IT Elective Unit

Year 5, Semester 1

AYB321	Strategic Management Accounting
AYB339	Accountancy Capstone
INB302	Capstone Project
	IT Elective Unit

Students should refer to the BS56 Course Notes entry for information on double major/extended major/specialisation units

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course Structure - Banking & Finance

BSB115	Management
BSB122	Quantitative Analysis and Finance
INB104	Building IT Systems
INB210	Databases

Year 1, Semester 2

BSB110	Accounting
BSB113	Economics
INB250	Systems Architecture
INB103	Industry Insights

Year 2, Semester 1

EFB222	Quantitative Methods For Economics and Finance
	Choice of Business Faculty Core Unit
INB270	Programming
	Intermediate Level IT Elective

Year 2, Semester 2

EFB210	Finance 1
	Choice of Business Faculty core unit
	IT Elective Unit
	IT Elective Unit

Year 3, Semester 1

EFB223	Economics 2
	Double Major/Extended Major/Specialisation unit
INB271	The Web
INB340	Database Design

Year 3, Semester 2

EFB307	Finance 2
	Business Double Major / Extended Major / Specialisation Unit
INB311	Enterprise Systems
	IT Elective Unit

Year 4, Semester 1

EFB201	Financial Markets
	Business Double Major / Extended Major / Specialisation unit
	IT Elective Unit

	IT Elective Unit

Year 4, Semester 2

EFB312	International Finance
	Business Double Major / Extended Major / Specialisation unit
INB301	The Business of IT
	IT Elective Unit

Year 5, Semester 1

	Business Double Major / Extended Major / Specialisation Unit
	Business Double Major / Extended Major / Specialisation Unit
INB302	Capstone Project
	IT Elective Unit

Business Faculty Core units:

	Students must choose 2 of the following Faculty Core units:
BSB111	Business Law and Ethics
BSB124	Working in Business
BSB119	Global Business
BSB126	Marketing

Students should refer to the BS56 Course Notes entry for information on double major/extended major/specialisation units

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course Structure - Economics

Year 1, Semester 1

BSB110	Accounting
BSB113	Economics
INB104	Building IT Systems
INB210	Databases

Year 1, Semester 2

BSB115	Management
BSB123	Data Analysis
INB250	Systems Architecture
INB103	Industry Insights

Year 2, Semester 1

EFB223	Economics 2
	Choice of Business Faculty core unit
INB270	Programming
	Intermediate Level IT Elective

Year 2, Semester 2

EFB222	Quantitative Methods For Economics and Finance
	Choice of Business Faculty core unit
	IT Elective unit
	IT Elective unit

Year 3, Semester 1

EFB330	Intermediate Macroeconomics
EFB331	Intermediate Microeconomics
INB271	The Web
INB340	Database Design

Year 3, Semester 2

EFB338	Contemporary Application of Economic Theory
	Business Double Major / Extended Major / Specialisation Unit
INB311	Enterprise Systems
	IT Elective Unit

Year 4, Semester 1

	Business Double Major / Extended Major / Specialisation unit
	Business Double Major / Extended Major / Specialisation unit
	IT Elective Unit
	IT Elective Unit

Year 4, Semester 2

EFB336	International Economics
	Business Double Major / Extended Major / Specialisation unit
INB301	The Business of IT
	IT Elective Unit

Year 5, Semester 1

	Business Double Major / Extended Major / Specialisation Unit
	Business Double Major / Extended Major / Specialisation Unit
INB302	Capstone Project
	IT Elective Unit selected from list

Business Faculty Core units:

	Students must choose 2 of the following Faculty core units:
BSB111	Business Law and Ethics
BSB124	Working in Business
BSB119	Global Business
BSB126	Marketing

Students should refer to the BS56 Course Notes entry for information on double major/extended major/specialisation units

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course Structure - Electronic Business

Year 1, Semester 1	
BSB113	Economics
BSB119	Global Business
INB104	Building IT Systems
INB210	Databases

Year 1, Semester 2	
BSB115	Management
	Choice of Faculty Core Unit
INB250	Systems Architecture
INB103	Industry Insights

Year 2, Semester 1	
AYB114	Business Technologies
BSB111	Business Law and Ethics
INB270	Programming
	Intermediate level IT Elective

Year 2, Semester 2	
BSB110	Accounting
AYB115	Governance Issues and Fraud
	IT Elective unit selected from IT List
	IT Elective unit selected from IT List

Year 3, Semester 1	
AYB341	Forensic and Business Intelligence
	Business Double Major / Extended Major / Specialisation Unit
INB271	The Web
INB340	Database Design

Year 3, Semester 2	
	Business Double Major / Extended Major / Specialisation Unit
INB313	Electronic Commerce Site Development
INB311	Enterprise Systems
	IT Elective Unit

Year 4, Semester 1	
	Business Double Major / Extended Major / Specialisation unit
INB312	Enterprise Systems Applications
	IT Elective Unit
	IT Elective Unit

Year 4, Semester 2	
	Business Double Major / Extended Major / Specialisation unit
INB342	Enterprise Data Mining
INB301	The Business of IT
	IT Elective Unit

Year 5, Semester 1	
	Business Double Major / Extended Major / Specialisation unit
	Business Double Major / Extended Major / Specialisation Unit
INB302	Capstone Project
	IT Elective Unit

Business Faculty Core units:	
	Students must choose two of the following Faculty Core units:
BSB111	Business Law and Ethics
BSB124	Working in Business
BSB119	Global Business
BSB123	Data Analysis

Business Faculty Core Unit List	
	Choose one from the following:
BSB123	Data Analysis
BSB124	Working in Business
BSB126	Marketing

Important Note:	
	Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course Structure - International Business

Year 1, Semester 1	
BSB113	Economics
BSB119	Global Business
INB104	Building IT Systems
INB210	Databases

Year 1, Semester 2	
BSB115	Management
BSB126	Marketing

Year 2, Semester 1	
EFB240	Finance for International Business
	Choice of Business Faculty core unit
INB270	Programming
	Intermediate Level IT Unit
	IT Elective Unit
	IT Elective Unit

Year 2, Semester 2	
BSB110	Accounting
AMB210	Importing and Exporting
INB250	Systems Architecture
INB103	Industry Insights

Year 3, Semester 1	
AMB336	International Marketing
	Business Double Major / Extended Major / Specialisation Unit
INB271	The Web
INB340	Database Design

Year 3, Semester 2	
AMB369	International Business Strategy
	Business Double Major / Extended Major / Specialisation
INB311	Enterprise Systems
	IT Elective Unit

Year 4, Semester 1	
	International Business Area Study 1
	Business Double Major / Extended Major / Specialisation unit
	IT Elective Unit
	IT Elective Unit

Year 4, Semester 2	
	International Business Area Study 2
	Business Double Major / Extended Major / Specialisation unit
INB301	The Business of IT
	IT Elective Unit selected from list

Year 5, Semester 1	
	Business Double Major / Extended Major / Specialisation Unit
	Business Double Major / Extended Major / Specialisation Unit
INB302	Capstone Project
	IT Elective Unit selected from list

International Business Area Study Units:	
	Students must choose one of the following pairs of area study units:
IBB208	European Business Development
MGB340	International Business in the Asia-pacific
	OR
IBB217	Asian Business Development
MGB340	International Business in the Asia-pacific

Business Faculty Core units:	
	Students must choose one of the following Faculty Core units:
BSB111	Business Law and Ethics
BSB124	Working in Business
BSB123	Data Analysis

Students should refer to the BS56 Course Notes entry for information on double major/extended major/specialisation units

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course Structure - Management

Year 1, Semester 1	
BSB115	Management
BSB113	Economics
INB104	Building IT Systems
INB210	Databases

Year 1, Semester 2	
BSB110	Accounting
MGB339	Performance and Reward
INB250	Systems Architecture
INB103	Industry Insights

Year 2, Semester 1	
	Choice of Business Faculty Core unit
	Choice of Business Faculty Core unit
INB270	Programming
	Intermediate Level IT Elective

Year 2, Semester 2	
MGB220	Business Research Methods
	Choice of Business Faculty Core unit
	IT Elective unit
	IT Elective unit

Year 3, Semester 1	
MGB210	Managing Operations
MGB200	Leading Organisations
INB271	The Web
INB340	Database Design

Year 3, Semester 2	
MGB310	Sustainability in A Changing Environment
	Business Double Major / Extended Major / Specialisation Unit
	IT Elective Unit
	IT Elective Unit

Year 4, Semester 1	
	Business Double Major / Extended Major / Specialisation unit
	Business Double Major / Extended Major / Specialisation unit
	IT Elective Unit
	IT Elective Unit

Year 4, Semester 2	
MGB309	Strategic Management

	Business Double Major / Extended Major / Specialisation unit
INB301	The Business of IT
	IT Elective Unit

Year 5, Semester 1

	Business Double Major / Extended Major / Specialisation unit
	Business Double Major / Extended Major / Specialisation Unit
INB302	Capstone Project
	IT Elective Unit

Business Faculty Core units:

Students must choose three of the following Faculty Core units:

BSB111	Business Law and Ethics
BSB119	Global Business
BSB123	Data Analysis
BSB124	Working in Business
BSB126	Marketing

Students should refer to the BS56 Course Notes entry for information on double major/extended major/specialisation units

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course Structure - Marketing

Year 1, Semester 1

BSB115	Management
BSB126	Marketing
INB104	Building IT Systems
INB210	Databases

Year 1, Semester 2

BSB110	Accounting
BSB113	Economics
INB250	Systems Architecture
INB103	Industry Insights

Year 2, Semester 1

AMB200	Consumer Behaviour
	Choice of Business Faculty Core unit
INB270	Programming
	Intermediate Level IT Unit

Year 2, Semester 2

AMB201	Marketing and Audience Research
	Choice of Business Faculty Core unit
	IT Elective Unit
	IT Elective Unit

Year 3, Semester 1

AMB240	Marketing Planning and Management
	Business Double Major / Extended Major / Specialisation Unit
INB271	The Web
INB340	Database Design

Year 3, Semester 2

AMB335	E-marketing Strategies
	Business Double Major / Extended Major / Specialisation Unit
INB311	Enterprise Systems
	IT Elective Unit

Year 4, Semester 1

AMB340	Services Marketing
	Business Double Major / Extended Major / Specialisation unit
	IT Elective Unit
	IT Elective Unit

Year 4, Semester 2

AMB359	Strategic Marketing
	Business Double Major / Extended Major / Specialisation unit
INB301	The Business of IT
	IT Elective Unit

Year 5, Semester 1

	Business Double Major / Extended Major / Specialisation unit
	Business Double Major / Extended Major / Specialisation Unit
INB302	Capstone Project
	IT Elective Unit

Business Faculty Core Unit list

Student must choice two units from the following:

BSB111	Business Law and Ethics
BSB119	Global Business
BSB123	Data Analysis
BSB124	Working in Business

Business Units

Students should refer to the BS56 Course Notes entry for information on double major/extended major/specialisation units

The units AMB201 Market and Audience Research and MGB220 Management Research Methods are incompatible units. Students undertaking HRM or Management as a double major should contact the school for enrolment advice. From Semester 2, 2003 students who complete both MGB220 &

AMB201 will be required to undertake an approved subsitute unit to satisfy course requirements.

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

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
INB370	Software Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB350	Internet Protocols and Services
INB255	Security
INB352	Network Planning and Deployment
INB351	Computer Network Administration
INB353	Wireless and Mobile Networks
INB382	Real Time Rendering Techniques
INB381	Modelling and Animation Techniques
INB355	Cryptology and Protocols
INB180	Computer Games Studies
INB181	Introduction to Games Production
INB204	Special Topic 1
INB304	Special Topic 3
INB205	Special Topic 2
INB860	Computational Intelligence for Control and Embedded Systems
MAB281	Mathematics for Computer Graphics

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

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

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

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

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

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

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

EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB314	is replaced by EFB336 International Economics
EFB329	is now EFB338 Contemporary Application of Economic

Electronic Business Core units

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

Human Resource Management Core units

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

International Business Core units

IBB202	is replaced by EFB240 Finance for International Business
IBB208	IBB208 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB210	is now replaced by AMB210 Importing and Exporting
IBB213	is now AMB336 International Marketing
IBB217	IBB217 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB300	is now AMB369 International Business Strategy
IBB308	is replaced by MGB340 International Business in the Asia-Pacific

Management Core units

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

Marketing Core units

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

Public Relations Core units

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

Business Law and Tax Extended Major (BLX)

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

Professional Accounting Extended Major (PAX)

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

Advertising Extended Major (ADX)

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

Banking Extended Major (BFX)

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

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

EFB200	is replaced by EFB333 Introductory Econometrics
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB325	is replaced by EFB336 International Economics
EFB318	is replaced by EFB335 Investments
EFB324	isreplaced by EFB337 Game Theory and Applications

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

EFB200	s replaced by EFB333 Introductory Econometrics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Funds Management Extended Major (FDX)

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

Human Resource Management Extended Major (HRX)

MGB315	is now MGB370 Peronsal and Professional Development
IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB310	Sustainability in a Changing Environment was formerly known as MGB212 and MGB334

International Business Extended Major (IBX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
IBB303	is now AMB303 International Logistics
AMB230	now retitled AMB230 Digital Promotions
IBB312	is replaced by AMb300 Independent Project 1

Management Extended Major (MNX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB218	is now MGB324 Managing Business Growth
MGB315	is now MGB370 Personal & Professional Development
IBB210	is replaced by AMB210 Importand and Exporting
IBB303	is now AMB303 International Logistics

Marketing Extended Major (MKX)

AMB251	now retitled AMB251 Innovation and Brand Management
AMB260	is replaced by AMB263 Introduction to Public Relations
AMB351	is now AMB209 Tourism Marketing
AMB352	is replaced by AMB252 Business Decision Making
AMB354	is now AMB208 Events Marketing
IBB213	is now AMB336 International Marketing
IBB303	is now AMB303 International Logistics

Public Relations Extended Major (PRX)

AMB370	is replaced by AMB374 Global Public Relations Cases
AMB371	is replaced by AMB375 Public Relations Management

Business Law and Tax Specialisation (BLS)

AYB223	is replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law
AYB305	is now AYB205 Company Law & Practice
AYB312	is now AYB232 Financial Institutions Law
BSB213	is now AYB115 Governance Issues in E-Business

Electronic Business Specialisation (EUS)

BSB212	is replaced by AYB114 Business Technologies
BSB213	is replaced by AYB115 Governance Issues and Fraud
BSB314	is replaced by AYB341 Forensic and Business Intelligence
ITB233	is now INB312 Enterprise Systems Applications
ITB823	is now INB830 Web Sites for E-Commerce
ITB239	is now INB342 Enterprise Data Mining

Financial Economics Specialisation (FES)

EFB102	is replaced by EFB223 Economics 2
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB329	is now 338 Contemporary Applications of Economics
EFB314	is replaced by EB336 International Economics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Integrated Marketing Communication Specialisation (IMS)

AMB260	is replaced by AMB263 Introduction to Public Relations
AMB230	now retitled AMB230 Digital Promotions
AMB354	is now AMB208 Events Marketing

International Logistics Specialisation (ILG)

IBB303	is now AMB303 International Logistics
BSB314	is replaced by AYB341 Forensic and Business Intelligence
IBB210	is replaced by AMB210 Importing and Exporting
EFB213	is replaced by AMB252 Business Decision Making (offered Sem 2); OR MGB335 Project Management (offered Sem 1 & 2)

Sales Specialisation (SALES)

AMB230	now retitled AMB230 Digital Promotion
AMB250	is replaced by MGB225 Intercultural Communication and Negotiation Skills

International Exchange Specilisation (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: 2010
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 - 2009: $6,720 per semester (indicative)
International Fees (indicative): 2010: $11,750 (indicative) per semester
International Entry: At any time
Course coordinator: A/Prof Terry Walsh
Campus: Gardens Point

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 (including one year of provisional registration) or six years part-time (including 24 months of provisional registration).

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: 2010
Admissions: Yes
CRICOS code: 006367J
Course duration (full-time): 30 to 48 months with an honours degree; 24 to 48 months with a masters degree
Course duration (part-time): 42 to 96 months with an honours degree; 36 to 96 months with a masters degree
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 - 2010: $11,750 per semester (indicative)
International Fees (indicative): 2010: $11,750 (indicative) per semester
International Entry: At any time
Course coordinator: Associate Professor Peter Mather
Discipline coordinator: A/Prof Terry Walsh
Campus: Gardens Point

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. Full details of the course structure are outlined in the following website: http://www.research.qut.edu.au/restdncen.

Further Information

For further information about this course, please contact:

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

Potential Careers:

Actuary, Data Communications Specialist, Mathematician, Statistician.

Full details of the course structure are outlined in the following website: http://www.research.qut.edu.au/restdncen.

Doctor of Philosophy (Science) (IF49)

Year offered: 2010
Admissions: Yes
CRICOS code: 006367J
Course duration (full-time): 30 to 48 months with an honours degree; 24 to 48 months with a masters degree
Course duration (part-time): 42 to 96 months with an honours degree; 36 to 96 months with a masters degree
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 - 2010: $11,750 per semester (indicative)
International Fees (indicative): 2010: $12,250 (indicative) per semester
International Entry: At any time
Course coordinator: Professor Peter Mather
Discipline coordinator: A/Prof Terry Walsh
Campus: Gardens Point

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. Full details of the course structure are outlined in the following website: http://www.research.qut.edu.au/restdncen.

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

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Full details of the course structure are outlined in the following website:

http://www.research.qut.edu.au/restdncen.

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: 2010
Admissions: No
Course duration (full-time): 4 Years
Domestic fees (indicative): 2010: CSP $3,087 (indicative) per semester
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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), Richard Thomas (Information Systems)
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.fit.qut.edu.au/

Mathematics Scholarships

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

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

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:

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	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

Course structure

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

Potential Careers:

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

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

Year offered: 2010
Admissions: No
CRICOS code: 006384G
Course duration (full-time): 5 years
Domestic fees (indicative): 2010: CSP $3,200 (indicative) per semester
International Fees (indicative): 2010: $11,500 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 480
Standard credit points per full-time semester: 48
Course coordinator: Dr R.Mahalinga-Iyer (Engineering), Mr Richard Thomas (Science and Technology)
Discipline coordinator: Dr Felipe Gonzalez (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

Full-time Course structure - Students who commenced in 2007 and 2008

Full-time Course Structure - Year 1, Semester 1	
BEB100	Introducing Professional Learning
ITB001	Problem Solving and Programming
PCB136	Engineering Physics 1C
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B

Year 1, Semester 2	
BEB200	Introducing Sustainability
ENB103	Electrical Engineering
ITB003	Object Oriented Programming
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B

Year 2, Semester 1	
ENB240	Introduction To Electronics
INB251	Networks
	OR (prior to 2008)
ITB006	Networks
INB271	The Web
	OR (prior to 2008)
ITB007	Web Development
MAB233	Engineering Mathematics 3

Year 2, Semester 2	
ENB243	Linear Circuits and Systems
ENB245	Introduction To Design and Professional Practice
INB210	Databases
	OR (prior to 2008)
ITB004	Database Systems
INB272	Interaction Design
	OR (prior to 2008)
ITB008	Modelling Analysis and Design

Year 3, Semester 1	
ENB242	Introduction To Telecommunications
ENB340	Power Systems and Machines
	IT Elective Unit
	IT Elective Unit

Year 3, Semester 2	
ENB241	Software Systems Design
ENB244	Microprocessors and Digital Systems
ENB345	Advanced Design and Professional Practice
	IT Elective Unit

Year 4, Semester 1	
ENB342	Signals, Systems and Transforms
ENB343	Fields, Transmission and Propagation
ENB350	Real-time Computer-based Systems
	IT Elective Unit

Year 4, Semester 2	
ENB344	Industrial Electronics
ENB346	Digital Communications
INB301	The Business of IT
	OR (prior to 2008)
ITB009	Core Project Management
	IT Elective Unit

Year 5, Semester 1	
ENB301	Instrumentation and Control
BEB801	Project 1
	OR
INB309-1	Major Project
	IT Elective Unit
	Electrical Engineering Selective

Year 5, Semester 2	
BEB701	Work Integrated Learning 1
BEB802	Project 2
	OR
INB309-2	Major Project
	IT Elective Unit
	Electrical Engineering Selective

Electrical Engineering Elective Units	
ENB231	Materials and Manufacturing 1
ENB334	Design For Manufacturing
ENB350	Real-time Computer-based Systems
ENB352	Communication Environments For Embedded Systems
ENB436	Mechatronics System Design
ENB440	RF and Applied Electromagnetics
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB454	Power System Management
ENB455	Power Electronics
ENB456	Energy
ENB457	Controls, Systems and Applications
ENB458	Modern Control Systems
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

IT Elective units -please see IT Elective Unit list

Full-time Course structure - Students who commenced in 2006

Full-time Course Structure - Year 1, Semester 1	
ITB001	Problem Solving and Programming
ITB006	Networks
PCB136	Engineering Physics 1C
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B

Year 1, Semester 2	
BEB100	Introducing Professional Learning
ENB103	Electrical Engineering
ITB003	Object Oriented Programming
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B

Year 2, Semester 1	
ENB240	Introduction To Electronics
ITB004	Database Systems
ITB008	Modelling Analysis and Design
MAB233	Engineering Mathematics 3

Year 2, Semester 2	
BEB200	Introducing Sustainability
ENB243	Linear Circuits and Systems
ENB245	Introduction To Design and Professional Practice
ITB007	Web Development

Year 3, Semester 1	
ENB242	Introduction To Telecommunications
ENB340	Power Systems and Machines
	IT Elective Unit
	IT Elective Unit

Year 3, Semester 2	
ENB241	Software Systems Design
ENB244	Microprocessors and Digital Systems
ENB345	Advanced Design and Professional Practice
	IT Elective Unit

Year 4, Semester 1	
ENB342	Signals, Systems and Transforms
ENB343	Fields, Transmission and Propagation
ENB350	Real-time Computer-based Systems
	IT Elective Unit

Year 4, Semester 2	
ENB344	Industrial Electronics
ENB346	Digital Communications
INB301	The Business of IT
	OR (prior to 2008)
ITB009	Core Project Management
	IT Elective Unit

Year 5, Semester 1	
ENB301	Instrumentation and Control
BEB801	Project 1

	OR
INB309-1	Major Project
	IT Elective Unit
	Electrical Engineering Selective

Year 5, Semester 2	
BEB701	Work Integrated Learning 1
BEB802	Project 2
	OR
INB309-2	Major Project
	IT Elective Unit
	Electrical Engineering Selective

Electrical Engineering Elective Units	
ENB231	Materials and Manufacturing 1
ENB334	Design For Manufacturing
ENB350	Real-time Computer-based Systems
ENB352	Communication Environments For Embedded Systems
ENB436	Mechatronics System Design
ENB440	RF and Applied Electromagnetics
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB454	Power System Management
ENB455	Power Electronics
ENB456	Energy
ENB457	Controls, Systems and Applications
ENB458	Modern Control Systems
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

IT Elective units -please see IT Elective Unit list

Bachelor of Mathematics/Bachelor of Business (Accountancy, Banking and Finance or Economics) (IF60)

Year offered: 2010
Admissions: No
Course duration (full-time): 4 Years
Domestic fees (indicative): 2010: CSP $3,300 (indicative) per semester
Domestic Entry: February
International Entry: February and July
QTAC code: 419212
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 432
Standard credit points per full-time semester: 54 (Average)
Course coordinator: Prof Erhan Kozan (Science and Technology); Dr Erica French (Business)
Discipline coordinator: Ms Ros Kent (Accountancy); Dr Tommy Tang (Economics); Dr Anup Basu (Finance)
Campus: Gardens Point

Course structure - Accountancy Major (For students with SA in Senior Maths B & C)

Year 1, Semester 1	
BSB110	Accounting
BSB113	Economics
MAB101	Statistical Data Analysis 1
MAB111	Mathematical Sciences 1B

Year 1, Semester 2	
AYB121	Financial Accounting
BSB119	Global Business
BSB122	Quantitative Analysis and Finance
MAB112	Mathematical Sciences 1C
MAB210	Statistical Modelling 1

Year 2, Semester 1	
AYB220	Company Accounting
BSB111	Business Law and Ethics
MAB311	Advanced Calculus
	Mathematics Elective (Level 2)

Year 2, Semester 2	
AYB221	Computerised Accounting Systems
BSB126	Marketing
MAB220	Computational Mathematics 1
MAB313	Mathematics of Finance
	Business Double Major / Extended Major / Specialisation Unit

Year 3, Semester 1	
AYB225	Management Accounting
BSB115	Management
MAB312	Linear Algebra
	Mathematics Elective (Level 2)
	Business Double Major / Extended Major / Specialisation Unit

Year 3, Semester 2	
BSB114	Government, Business and Society
	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Business Double Major / Extended Major / Specialisation Unit

Year 4, Semester 1	
AYB301	Audit and Assurance
	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Business Double Major / Extended Major / Specialisation Unit

Year 4, Semester 2	
	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Business Double Major / Extended Major / Specialisation Unit
	Business Double Major / Extended Major / Specialisation Unit

Business Units	
	Students should refer to the BS56 Course Notes entry for information on double major/extended major/specialisation units
	Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course structure - Accountancy Major (For students with SA in Senior Maths B only)

Year 1, Semester 1	
BSB110	Accounting
BSB113	Economics
MAB100	Mathematical Sciences 1A
MAB101	Statistical Data Analysis 1

Year 1, Semester 2	
AYB121	Financial Accounting
BSB122	Quantitative Analysis and Finance
MAB111	Mathematical Sciences 1B
MAB112	Mathematical Sciences 1C

MAB210	Statistical Modelling 1

Year 2, Semester 1

AYB220	Company Accounting
BSB111	Business Law and Ethics
MAB311	Advanced Calculus
	Mathematics Elective

Year 2, Semester 2

AYB221	Computerised Accounting Systems
BSB126	Marketing
MAB220	Computational Mathematics 1
MAB313	Mathematics of Finance
	Business Double Major / Extended Major / Specialisation Unit

Year 3, Semester 1

AYB225	Management Accounting
BSB115	Management
MAB312	Linear Algebra
	Mathematics Elective (Level 2 or 3)
	Business Double Major / Extended Major / Specialisation Unit

Year 3, Semester 2

BSB114	Government, Business and Society
	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Business Double Major / Extended Major / Specialisation Unit

Year 4, Semester 1

AYB301	Audit and Assurance
	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Business Double Major / Extended Major / Specialisation Unit

Year 4, Semester 2

	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Business Double Major / Extended Major / Specialisation Unit
	Business Double Major / Extended Major / Specialisation Unit

NOTE: Students must select BSB119 International & Electronic Business to replace one of the Mathematics Electives.

Students should refer to the BS56 Course Notes entry for information on double major/extended major/specialisation units

NOTE: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course structure - Banking and Finance Major (for students with SA in Senior Maths B & C)

Year 1, Semester 1

BSB110	Accounting
BSB113	Economics
MAB101	Statistical Data Analysis 1
MAB111	Mathematical Sciences 1B

Year 1, Semester 2

BSB119	Global Business
BSB122	Quantitative Analysis and Finance
EFB102	Economics 2
MAB112	Mathematical Sciences 1C
MAB210	Statistical Modelling 1

Year 2, Semester 1

BSB126	Marketing
EFB210	Finance 1
MAB311	Advanced Calculus
	Mathematics Elective (Level 2)

Year 2, Semester 2

BSB111	Business Law and Ethics
BSB114	Government, Business and Society
EFB307	Finance 2
MAB220	Computational Mathematics 1
MAB313	Mathematics of Finance

Year 3, Semester 1

BSB115	Management
EFB201	Financial Markets
MAB312	Linear Algebra
	Mathematics Elective (Level 2)
	Business Double Major/Extended Major/Specialisation

Year 3, Semester 2

EFB312	International Finance
	Mathematics Elective (Level 2 or 3)
	Business Double Major/Extended Major/Specialisation
	Business Double Major/Extended Major/Specialisation

Year 4, Semester 1

	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Business Double Major/Extended Major/Specialisation

Business Double Major/Extended Major/Specialisation

Year 4, Semester 2

Mathematics Elective (Level 2 or 3)

Mathematics Elective (Level 2 or 3)

Mathematics Elective (Level 2 or 3)

Business Double Major/Extended Major/Specialisation

Business Units

Students should refer to the BS56 Course Notes entry for information on double major/extended major/specialisation units

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course structure - Banking and Finance Major (for students with SA in Senior Maths B only)

Year 1, Semester 1

BSB110	Accounting
BSB113	Economics
MAB100	Mathematical Sciences 1A
MAB101	Statistical Data Analysis 1

Year 1, Semester 2

BSB122	Quantitative Analysis and Finance
EFB102	Economics 2
MAB111	Mathematical Sciences 1B
MAB112	Mathematical Sciences 1C
MAB210	Statistical Modelling 1

Year 2, Semester 1

BSB126	Marketing
EFB210	Finance 1
MAB311	Advanced Calculus
	Mathematics Elective (Level 2)

Year 2, Semester 2

BSB111	Business Law and Ethics
BSB114	Government, Business and Society
EFB307	Finance 2
MAB220	Computational Mathematics 1
MAB313	Mathematics of Finance

Year 3, Semester 1

BSB115	Management
EFB201	Financial Markets
MAB312	Linear Algebra
	Mathematics Elective (Level 2)
	Business Double Major/Extended Major/Specialisation

Year 3, Semester 2

EFB312	International Finance
	Mathematics Elective (Level 2 or 3)
	Business Double Major/Extended Major/Specialisation
	Business Double Major/Extended Major/Specialisation

Year 4, Semester 1

Mathematics Elective (Level 2 or 3)

Mathematics Elective (Level 2 or 3)

Mathematics Elective (Level 2 or 3)

Business Double Major/Extended Major/Specialisation

Business Double Major/Extended Major/Specialisation

Year 4, Semester 2

Mathematics Elective (Level 2 or 3)

Mathematics Elective (Level 2 or 3)

Mathematics Elective (Level 2 or 3)

Business Double Major/Extended Major/Specialisation

Business Units

NOTE: Students must select BSB119 International & Electronic Business to replace one of the Mathematics Electives

Students should refer to the BS56 Course Notes entry for information on double major/extended major/specialisation units

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course structure - Economics Major (for students with SA in Senior Maths B & C)

Year 1, Semester 1

BSB110	Accounting
BSB113	Economics
MAB101	Statistical Data Analysis 1
MAB111	Mathematical Sciences 1B

Year 1, Semester 2

BSB119	Global Business
BSB122	Quantitative Analysis and Finance
EFB102	Economics 2
MAB112	Mathematical Sciences 1C
MAB210	Statistical Modelling 1

Year 2, Semester 1

EFB202	Business Cycles and Economic Growth
EFB211	Firms, Markets and Resources
MAB311	Advanced Calculus

	Mathematics Elective (Level 2)

Year 2, Semester 2

BSB114	Government, Business and Society
BSB126	Marketing
	Business Double Major/Extended Major/Specialisation
MAB220	Computational Mathematics 1
MAB313	Mathematics of Finance

Year 3, Semester 1

BSB115	Management
MAB312	Linear Algebra
	Mathematics Elective (Level 2)
	Business Double Major/Extended Major/Specialisation
	Business Double Major/Extended Major/Specialisation

Year 3, Semester 2

EFB314	International Trade and Economic Competitiveness
	Mathematics Elective (Level 2 or 3)
	Business Double Major/Extended Major/Specialisation
	Business Double Major/Extended Major/Specialisation

Year 4, Semester 1

BSB111	Business Law and Ethics
	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Business Double Major/Extended Major/Specialisation

Year 4, Semester 2

	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Business Double Major/Extended Major/Specialisation

Business Units

Students should refer to the BS56 Course Notes entry for information on double major/extended major/specialisation units

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course structure - Economics Major (for students with SA in Senior Maths B only)

Year 1, Semester 1

BSB110	Accounting
BSB113	Economics
MAB100	Mathematical Sciences 1A
MAB101	Statistical Data Analysis 1

Year 1, Semester 2

BSB122	Quantitative Analysis and Finance
EFB102	Economics 2
MAB111	Mathematical Sciences 1B
MAB112	Mathematical Sciences 1C
MAB210	Statistical Modelling 1

Year 2, Semester 1

EFB202	Business Cycles and Economic Growth
EFB211	Firms, Markets and Resources
MAB311	Advanced Calculus
	Mathematics Elective (Level 2)

Year 2, Semester 2

BSB114	Government, Business and Society
BSB126	Marketing
EFB329	Contemporary Applications of Economics Theory
MAB220	Computational Mathematics 1
MAB313	Mathematics of Finance

Year 3, Semester 1

BSB115	Management
MAB312	Linear Algebra
	Mathematics Elective (Level 2)
	Business Double Major/Extended Major/Specialisation
	Business Double Major/Extended Major/Specialisation

Year 3, Semester 2

EFB314	International Trade and Economic Competitiveness
	Mathematics Elective (Level 2 or 3)
	Business Double Major/Extended Major/Specialisation
	Business Double Major/Extended Major/Specialisation

Year 4, Semester 1

BSB111	Business Law and Ethics
	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Mathematics Elective (Level 2 or 3)
	Business Double Major/Extended Major/Specialisation

Year 4, Semester 2

	Mathematics Elective (Level 2 or 3)

Mathematics Elective (Level 2 or 3)

Mathematics Elective (Level 2 or 3)

Business Double Major/Extended Major/Specialisation

Business Units

NOTE: Students must select BSB119 International & Electronic Business to replace one of the Mathematics Electives.

Students should refer to the BS56 Course Notes entry for information on double major/extended major/specialisation units

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Extended Major in Banking

AYB225	Management Accounting
AYB312	Financial Institutions Law
EFB310	Financial Institutions - Control
EFB311	Financial Institutions - Lending

Plus two units from the Banking Extended Major Options listed below:

EFB200	Applied Regression Analysis
EFB308	Finance 3
EFB309	Financial Derivatives
EFB318	Portfolio and Security Analysis
EFB326	Applied Portfolio Management

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Extended Major in Financial Economics (for Banking & Finance Major)

EFB200	Applied Regression Analysis
EFB202	Business Cycles and Economic Growth
EFB211	Firms, Markets and Resources
EFB325	Financial Microeconomics

Plus two units from the Financial Economics Extended Major Options list below

EFB308	Finance 3
EFB309	Financial Derivatives
EFB318	Portfolio and Security Analysis
EFB324	Macroeconomics and Global Financial Markets
EFB326	Applied Portfolio Management

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Extended Major in Financial Economics (for Economics Major)

EFB200	Applied Regression Analysis
EFB210	Finance 1
EFB324	Macroeconomics and Global Financial Markets
EFB325	Financial Microeconomics

Plus two units from the Financial Economics Extended Major Options list below:

EFB201	Financial Markets
EFB326	Applied Portfolio Management
EFB327	Econometrics of Financial Markets
EFB328	Public Economics and Finance

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Extended Major in Funds Management

AYB225	Management Accounting
EFB308	Finance 3
EFB309	Financial Derivatives
EFB318	Portfolio and Security Analysis

Plus two units from the Funds Management Extended Major Options list below:

AYB312	Financial Institutions Law
EFB200	Applied Regression Analysis
EFB310	Financial Institutions - Control
EFB311	Financial Institutions - Lending
EFB326	Applied Portfolio Management

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Extended Major in Professional Accounting

AYB223	Law of Business Associations
AYB325	Taxation Law
EFB102	Economics 2
EFB210	Finance 1
AYB311	Financial Accounting Issues
AYB321	Strategic Management Accounting

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Course structure - 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
MAB481	Visualisation and Data Analysis

Level 3 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
MAB681	Advanced Visualisation and Data Analysis
MAB672	Advanced Mathematical Modelling

NOTES:

- MAB311 Advanced Calculus and MAB312 Linear Algebra are mandatory for students who commenced in 2004 onwards. They can be taken in a different semester 1 to that suggested in the programs above.
- For students commencing in 2004 onwards, the units MAB523 Introduction to Quality Management and MAB621 Discrete Mathematics do not contribute to the mandatory 48 credit points minimum from Level 3 Mathematics units. This does not apply for students who commenced prior to 2004.
- MAB681 will not be offered in 2008, but will be offered in Semester 2 2009 and every second year.

Course structure

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

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

Faculty Core units

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

Accountancy Core units

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

Advertising Core units

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

Banking and Finance Core units

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

Economics Core units

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

Electronic Business Core units

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

Human Resource Management Core units

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

International Business Core units

IBB202	is replaced by EFB240 Finance for International Business
IBB208	IBB208 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB210	is now replaced by AMB210 Importing and Exporting
IBB213	is now AMB336 International Marketing
IBB217	IBB217 is no longer offered. Please contact the

	School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB300	is now AMB369 International Business Strategy
IBB308	is replaced by MGB340 International Business in the Asia-Pacific

Management Core units

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

Marketing Core units

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

Public Relations Core units

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

Business Law and Tax Extended Major (BLX)

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

Professional Accounting Extended Major (PAX)

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

Advertising Extended Major (ADX)

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

Banking Extended Major (BFX)

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

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

EFB200	is replaced by EFB333 Introductory Econometrics
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB325	is replaced by EFB336 International Economics
EFB318	is replaced by EFB335 Investments
EFB324	isreplaced by EFB337 Game Theory and Applications

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

EFB200	s replaced by EFB333 Introductory Econometrics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Funds Management Extended Major (FDX)

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

Human Resource Management Extended Major (HRX)

MGB315	is now MGB370 Peronsal and Professional Development
IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB310	Sustainability in a Changing Environment was formerly known as MGB212 and MGB334

International Business Extended Major (IBX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
IBB303	is now AMB303 International Logistics
AMB230	now retitled AMB230 Digital Promotions
IBB312	is replaced by AMb300 Independent Project 1

Management Extended Major (MNX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB218	is now MGB324 Managing Business Growth
MGB315	is now MGB370 Personal & Professional Development
IBB210	is replaced by AMB210 Importand and Exporting
IBB303	is now AMB303 International Logistics

Marketing Extended Major (MKX)

AMB251	now retitled AMB251 Innovation and Brand Management
AMB260	is replaced by AMB263 Introduction to Public Relations
AMB351	is now AMB209 Tourism Marketing
AMB352	is replaced by AMB252 Business Decision Making
AMB354	is now AMB208 Events Marketing
IBB213	is now AMB336 International Marketing
IBB303	is now AMB303 International Logistics

Public Relations Extended Major (PRX)

AMB370	is replaced by AMB374 Global Public Relations Cases

AMB371	is replaced by AMB375 Public Relations Management

Business Law and Tax Specialisation (BLS)

AYB223	is replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law
AYB305	is now AYB205 Company Law & Practice
AYB312	is now AYB232 Financial Institutions Law
BSB213	is now AYB115 Governance Issues in E-Business

Electronic Business Specialisation (EUS)

BSB212	is replaced by AYB114 Business Technologies
BSB213	is replaced by AYB115 Governance Issues and Fraud
BSB314	is replaced by AYB341 Forensic and Business Intelligence
ITB233	is now INB312 Enterprise Systems Applications
ITB823	is now INB830 Web Sites for E-Commerce
ITB239	is now INB342 Enterprise Data Mining

Financial Economics Specialisation (FES)

EFB102	is replaced by EFB223 Economics 2
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB329	is now 338 Contemporary Applications of Economics
EFB314	is replaced by EB336 International Economics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Integrated Marketing Communication Specialisation (IMS)

AMB260	is replaced by AMB263 Introduction to Public Relations
AMB230	now retitled AMB230 Digital Promotions
AMB354	is now AMB208 Events Marketing

International Logistics Specialisation (ILG)

IBB303	is now AMB303 International Logistics
BSB314	is replaced by AYB341 Forensic and Business Intelligence
IBB210	is replaced by AMB210 Importing and Exporting
EFB213	is replaced by AMB252 Business Decision Making (offered Sem 2); OR MGB335 Project Management (offered Sem 1 & 2)

Sales Specialisation (SALES)

AMB230	now retitled AMB230 Digital Promotion
AMB250	is replaced by MGB225 Intercultural Communication and Negotiation Skills

International Exchange Specilisation (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 Applied Science/Bachelor of Business (IF61)

Year offered: 2010
Admissions: No
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $3,300 (indicative) per semester
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 432
Standard credit points per full-time semester: 54 (average)
Course coordinator: Dr Perry Hartfield (Science and Technology); Dr Erica French (Business)
Discipline coordinator: Ms Ros Kent (Accountancy); Ms Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr Anup Basu (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Kavoos Mohannak (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

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 Applied Science/Bachelor of Education (Primary) (IF84)

Year offered: 2010
Admissions: No
Course duration (full-time): 4 Years
Domestic fees (indicative): 2010: CSP rates available July 2009
Domestic Entry: February
QTAC code: 409142
Past rank cut-off: 80
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr Perry Hartfield (Science and Technology): Dr Mary Ryan (Education)
Campus: Gardens Point and Kelvin Grove

Career Outcomes

The Bachelor of Applied Science allows multidisciplinary programs of study that not only help students position themselves within the broad range of science disciplines but also qualify them as a competent professional in their chosen field.

Students are equipped to undertake research after graduation if they desire. The Bachelor of Education (Primary) prepares students to teach at all levels of the 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

The Bachelor of Education (Primary) is recognised by the Queensland Board of Teacher Registration as meeting the requirements for registration as a teacher in Queensland. Applicants for registration as a teacher in Queensland are subject to national criminal history checks.

For graduates with approved study: Australasian Association of Clinical Biochemists, Australasian Institute of Mining and Metallurgy, Australian Biotechnology Association, Australian Institute of Geoscientists, Australian Institute of Physics, Australian Mathematical Society, Australian Society of Biochemistry and Molecular Biology, Australian Society for Medical Research, Australian Society for Microbiology, Australian Society of Operations Research, Ecological Society of Australia, Geological Society of Australia, Royal Australian Chemical Institute, and the Statistical Society of Australia.

Further Information

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

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

Education Coordinator
Phone: +61 7 3138 3947
Fax: +61 7 3138 3949
Email: educationenq@qut.edu.au

Course structure

This course has been discontinued.

Potential Careers:

Actuary, Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Database Manager, Ecologist, Educator, 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, Primary School Teacher, Programmer, Quantitative Analyst, Statistician, Teacher, Virologist.

Bachelor of Arts/Bachelor of Applied Science (IF86)

Year offered: 2010
Admissions: No
Course duration (full-time): 4 Years
Domestic fees (indicative): 2010: CSP rate 2010 available July 2009
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384 (192 cp in the Bachelor of Arts and 192 cp in the Bachelor of Applied Science)
Standard credit points per full-time semester: 48
Course coordinator: Contract Ms Eve Teague (Arts) - Dr Perry Hartfield (Science and Technology)
Discipline coordinator: Dr Perry Hartfield (Biochemistry Major); Dr Marion Bateson (Biotechnology Major); Dr Robert Johnson (Chemistry Major); Dr Ian Williamson (Ecology Major); Dr Robin Thwaites (Environmental Science Major); Dr Emad Kiriakous (Forensic Science Major); Dr Gary Huftile (Geoscience Major); Dr Scott McCue (Mathematics Major); Dr Christine Knox (Microbiology Major); Dr Greg Michael (Physics Major)
Campus: Gardens Point and Kelvin Grove

Course discontinued

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

Career Opportunities

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

Course Design

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

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

Professional Recognition

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

Further Information

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

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

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

Example of Full-Time Course Structure

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Year 4, Semester 1

Major Unit - Arts

Discipline Major Unit or Minor Unit or Elective unit - Arts

Two Science Major units (SC01 Level 3)

Year 4, Semester 2

Major Unit - Arts

Discipline Major Unit or Elective

Two Science Major units (SC01 Level 3)

Course structure - Major in Biochemistry

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

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

Year 2, Semester 2

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 3, Semester 2

LQB481	Biochemical Pathways and Metabolism
LQB483	Molecular Biology Techniques

Year 4, Semester 1

LQB581	Functional Biochemistry
LQB582	Biomedical Research Technologies

Year 4, Semester 2

LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering

Course structure - Major in Biotechnology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

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

Year 2, Semester 2

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 3, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics

Year 4, Semester 1

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

Year 4, Semester 2

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

Course structure - Major in Chemistry

Year 1, Semester 1

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

Year 1, Semester 2

SCB112	Cellular Basis of Life
SCB121	Chemistry 2

Year 2, Semester 1

MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems

Year 2, Semester 2

SCB123	Physical Science Applications

SCB131	Experimental Chemistry

Year 3, Semester 1

PQB312	Analytical Chemistry For Scientists and Technologists
PQB331	Structure and Bonding

Year 3, Semester 2

PQB401	Reaction Kinetics, Thermodynamics and Mechanisms
PQB442	Chemical Spectroscopy

Year 4, Semester 1

PQB502	Advanced Physical Chemistry
PQB531	Organic Mechanisms and Synthesis

Year 4, Semester 2

PQB631	Advanced Inorganic Chemistry
PQB642	Chemical Research

Course structure - Major in Ecology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB122	Cell and Molecular Biology

Year 2, Semester 1

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

Year 2, Semester 2

NQB201	Planet Earth
NQB202	History of Life on Earth

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2

NQB421	Experimental Design
NQB422	Genetics and Evolution

Year 4, Semester 1

NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management

Year 4, Semester 2

NQB622	Conservation Biology
NQB623	Ecological Systems

Course structure - Major in Environmental Science

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

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

Year 2, Semester 2

NQB202	History of Life on Earth
SCB123	Physical Science Applications

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2

NQB403	Soils and the Environment
NQB421	Experimental Design

Year 4, Semester 1

NQB501	Environmental Modelling
NQB502	Field Methods in Natural Resource Sciences

Year 4, Semester 2

NQB601	Sustainable Environmental Management
NQB602	Environmental Chemistry

Course structure - Major in Forensic Science

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1

	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

SCB123	Physical Science Applications
SCB131	Experimental Chemistry

Year 3, Semester 1

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

Year 3, Semester 2

JSB979	Forensic Scientific Evidence
PQB312	Analytical Chemistry For Scientists and Technologists

Year 4, Semester 1

PQB513	Instrumental Analysis
PQB584	Forensic Physical Evidence

Year 4, Semester 2

LQB680	Forensic DNA Profiling
PQB684	Forensic Analysis

Course structure - Major in Geoscience

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

NQB201	Planet Earth
SCB123	Physical Science Applications

Year 2, Semester 1

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

Year 2, Semester 2

NQB202	History of Life on Earth
SCB222	Exploration of the Universe

Year 3, Semester 1

NQB311	Mineralogy
NQB314	Sedimentary Geology

Year 3, Semester 2

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

Year 4, Semester 1

NQB502	Field Methods in Natural Resource Sciences
NQB513	Geophysics

Year 4, Semester 2

NQB602	Environmental Chemistry
NQB614	Groundwater Systems

Course structure - Major in Mathematics (WITH Mathematics C from Senior)

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
MAB111	Mathematical Sciences 1B

Year 1, Semester 2

MAB112	Mathematical Sciences 1C
MAB210	Statistical Modelling 1

Year 2, Semester 1

MAB220	Computational Mathematics 1
	One Science unit - selected from:
SCB110	Science Concepts and Global Systems
SCB112	Cellular Basis of Life

Year 2, Semester 2

	Science elective unit
	One Science unit - selected from:
SCB110	Science Concepts and Global Systems
SCB112	Cellular Basis of Life

Year 3, Semester 1

	Two Level 2 Mathematics units* - available units are:
MAB311	Advanced Calculus
MAB312	Linear Algebra
MAB313	Mathematics of Finance
MAB314	Statistical Modelling 2
*	Students must complete at least one of MAB311, MAB312, MAB413

Year 3, Semester 2

	Two Level 2 Mathematics units* - available units are:
MAB315	Operations Research 2
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB420	Computational Mathematics 2
MAB422	Mathematical Modelling
MAB480	Introduction to Scientific Computation
*	Students must complete at least one of MAB311, MAB312, MAB413

Year 4, Semester 1	
	Two Level 3 Mathematics units - available units are:
MAB521	Applied Mathematics 3
MAB522	Computational Mathematics 3
MAB523	Introduction to Quality Management
MAB525	Operations Research 3A
MAB526	Statistical Science 3
MAB672	Advanced Mathematical Modelling

Year 4, Semester 2	
	Two Level 3 Mathematics units - available units are
MAB524	Statistical Inference
MAB613	Partial Differential Equations
MAB621	Discrete Mathematics
MAB623	Financial Mathematics
MAB624	Applied Statistics 3
MAB625	Operations Research 3B

Course structure - Major in Mathematics (WITHOUT Mathematics C from Senior)

Year 1, Semester 1	
MAB100	Mathematical Sciences 1A
MAB101	Statistical Data Analysis 1

Year 1, Semester 2	
MAB111	Mathematical Sciences 1B
MAB112	Mathematical Sciences 1C

Year 2, Semester 1	
MAB220	Computational Mathematics 1
	One Science unit - selected from:
SCB110	Science Concepts and Global Systems
SCB112	Cellular Basis of Life

Year 2, Semester 2	
MAB210	Statistical Modelling 1
	One Science unit - selected from:
SCB110	Science Concepts and Global Systems
SCB112	Cellular Basis of Life

Year 3, Semester 1	
	Two Level 2 Mathematics units* - available units are:
MAB311	Advanced Calculus
MAB312	Linear Algebra
MAB313	Mathematics of Finance
MAB314	Statistical Modelling 2
*	Students must complete at least one of MAB311, MAB312, MAB413

Year 3, Semester 2	
	Two Level 2 Mathematics units* - available units are:
MAB315	Operations Research 2
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB420	Computational Mathematics 2
MAB422	Mathematical Modelling
MAB480	Introduction to Scientific Computation
*	Students must complete at least one of MAB311, MAB312, MAB413

Year 4, Semester 1	
	Two Level 3 Mathematics units - available units are:
MAB521	Applied Mathematics 3
MAB522	Computational Mathematics 3
MAB523	Introduction to Quality Management
MAB525	Operations Research 3A
MAB526	Statistical Science 3
MAB672	Advanced Mathematical Modelling

Year 4, Semester 2	
	Two Level 3 Mathematics units - available units are:
MAB524	Statistical Inference
MAB613	Partial Differential Equations
MAB621	Discrete Mathematics
MAB623	Financial Mathematics
MAB624	Applied Statistics 3
MAB625	Operations Research 3B

Course structure - Major in Microbiology

Year 1, Semester 1	
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2	
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
SCB111	Chemistry 1

Year 1, Semester 2	
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
PQB251	Waves and Optics

Year 3, Semester 1	
MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 3, Semester 2	
PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation

Year 4, Semester 1	
PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques

Year 4, Semester 2	
PQB650	Advanced Theoretical Physics
PQB651	Experimental Physics

Major in the Bachelor of Arts - International and Global Studies

International and Global Studies	
	Seven (7) units are required for an International and Global Studies (IGS) Major. These can include units completed in the IGS Major up to 2009 as well as any completed from the following list.
BSB119	Global Business
CLB049	The Global Teacher
CLB104	Colonialism and Independence in Asia-Pacific
CLB105	Australia and the South Pacific
CLB106	Modern China
CLB108	Nations and Nationalism in Modern Europe
CLB109	World Regions
CLB112	South East Asia in Focus
MDB454	Science, Technology and Society
SCB110	Science Concepts and Global Systems
	Students may select one language unit as an elective in the International Studies Strand. Students may also undertake a Combined Major in Languages/International and Global Studies, comprising: 3 elective units, 4 units in one chosen language. (Indonesian, Japanese, French, Mandarin, German).

Major in the Bachelor of Arts - Society and Change

Society and Change	
	Seven (7) units are required for a Society and Change Major. These can include units completed in the Society and Change Major up to 2009 as well as any completed from the following list.
CLB107	The Classical World
CLB110	Environment and Society
CLB111	Environmental Hazards
JSB171	Justice and Society
KMB003	Sex Drugs Rock 'n' roll
MDB454	Science, Technology and Society
PUB209	Health, Culture and Society
PYB067	Human Sexuality
SCB110	Science Concepts and Global Systems
SWB102	The Human Condition
SWB104	Interpersonal Communication
SWB212	Community Work
SWB214	Team Practice and Group Processes
SWB222	Advanced Communication for Human Services and Social Work
SWB223	People, Society and Social Work
SWB302	Social Policy Processes

Major in the Bachelor of Arts - Ethics and Human Rights

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

from the following list.

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

Major in the Bachelor of Arts - Community Studies

Community Studies

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

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

Major in the Bachelor of Arts - Australian Studies

Australian Studies

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

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

Major in the Bachelor of Arts - Geography and Environmental Studies

Geography and Environmental Studies

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

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

Discipline Major - History

History

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

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

Discipline Major - Languages

Mandarin

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

AMB030	Mandarin for Chinese
AMB031	Mandarin 1
AMB032	Mandarin 2

AMB033	Mandarin 3
AMB034	Mandarin 4
AMB035	Mandarin 5
AMB036	Mandarin 6
AMB037	Mandarin 7
AMB038	Mandarin 8

Overseas Units - All Languages

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

French

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

FREN1010	French 1/Introductory French A
FREN1020	French 2/Introductory French B
FREN2010	French 3/Intermediate French A *
	OR
FREN3112	French Language A *
FREN2020	French 4/Intermediate French B
	OR
FREN3113	French Language B
FREN3114	French 5/French Lancuage C
FREN3115	French 6/French Language D
FREN3116	French 7/Advanced French Language **
	OR
FREN3330	French for Business
	OR
FREN3360	Le cinema en Francais
FREN3120	French 8/Advanced Oral French
	OR
FREN3210	Litterature et modernite
	OR
FREN3310	Introduction to French > English Translation
	OR
FREN335	Litterature Contemporaine

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

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

German

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

GRMN1010	German 1/Introductory German Language 1
GRMN1020	German 2/Introductory German Language 2
GRMN2010	German 3/Continuing German Language 1
GRMN2020	German 4/Continuing German Language 2
GRMN3010	German 5/Advanced German Language 1
GRMN3020	German 6/Advanced German Language 2
GRMN3110	German 7/Advanced German Language 3
GRMN3120	German 8/Advanced German Language 4

Japanese

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

JAPN1011	Japanese 1/Introductory Japanese 1
JAPN2011	Japanese 2/Introductory Japanese 2
JAPN2101	Japanese 3/Intermediate Japanese 1
JAPN3001	Japanese 4/Intermediate Japanese 2
JAPN3101	Japanese 5/Continuing Japanese 3
JAPN3102	Japanese 6/Continuing Japanese 4
JAPN3200	Japanese 7/Multimedia Japanese
	OR
JAPN3240	Modern Literary Texts
	OR
JAPN3210	Polite Japanese Written & Spoken Styles
JAPN3500	Japanese 8/Language and Society in Japan

Indonesian

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

list:

INDN1000	Indonesian 1/Introductory Indonesian A
INDN1001	Indonesian 2/Introductory Indonesian B
INDN2000	Indonesian 3/Intermediate Indonesian A
INDN2001	Indonesian 4/Intermediate Indonesian B
INDN3000	Indonesian 5/Advanced Indonesian A
INDN3001	Indonesian 6/Advanced Indonesian B
INDN3003	Indonesian 7/Indonesian Through the Media
INDN3005	Indonesian 8/Indonesian Translation B

Discipline Major - Social Science

SOCIAL SCIENCE

Six (6) units are required for a Social Science Discipline Major which comprises Sociology units and Political Studies units. These can include units completed in the Social Science Discipline Major up to 2009 as well as any completed from the following list.

Sociology

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

Political Studies

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

Potential Careers:

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

Bachelor of Games and Interactive Entertainment (IT04)

Year offered: 2010
Admissions: Yes
CRICOS code: 059710E
Course duration (full-time): 3 years
Domestic fees (indicative): 2010: CSP $3,720 (indicative) per semester
International Fees (indicative): 2010: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 416102
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 288
Course coordinator: Dr Peta Wyeth
Campus: Gardens Point

Course Overview

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, also known as your major, from:

Animation: animation and motion graphics, 3D computer graphics and computer generated art
Digital Media: mixing graphics, video, animation and sound to meet the increasingly complex world of digital entertainment
Game Design: game design tools and design processes, narrative and immersion, architecture and interior design
Software Technologies: technical aspects of computer games, games engine and tools development

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.

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, quality assurance tester, games/digital media reviewer, video game tester, sound designer, mobile entertainment and communications developer, web developer or digital product strategist.

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.

Professional Recognition

No professional accreditation is currently available for courses in the games and entertainment area.

Students completing the Software Technologies Major would be eligible for membership of the Australian Computer Society (ACS).

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

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six

months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances. 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:

Peta Wyeth
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Bachelor of Games & Interactive Entertainment Course Structure 2010

The course consists of four blocks of studies	
	Block A: Core Studies (8 units including a 36 credit point Project completed over Semesters 5 & 6)
	Block B: Major (8 units) selected from Animation; Digital Media; Games Design; Sotware Technologies
	Block C: Minor (4 units)
	Block D: Electives (4 units)
	The Cooperative Education Programs are replacements for general IT electives

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

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

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

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

Year 3, Semester 1	
INB379	Game Project Design
	Block B or Block C or Block D Unit
	Block B or Block C or Block D Unit
	Block B or Block C or Block D Unit

Year 3, Semester 2	
INB380	Games Project
	Block B or Block C or Block D Unit
	Block B or Block C or Block D Unit
	Note: Coop Ed students replace INB380 with INS011 and INS012

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

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

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

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

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

Software Technologies*

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

INB270	Programming
MAB281	Mathematics for Computer Graphics
INB210	Databases
INB250	Systems Architecture
INB370	Software Development
INB371	Data Structures and Algorithms
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
OR	
INB383	AI for Games

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

Students select a Minor from the following

Animation

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

Advanced Animation#

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

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

Advanced Software Technologies

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

Only available to students doing the Software Technologies major

Digital Media

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

Entrepeneurship

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

Game Design

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

Legal Issues

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

Marketing

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

Mathematics for Games#

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

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

Mobile and Network Technologies

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

Sound Design

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

Software Technologies

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

Physics for Games

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

Bachelor of Games & Interactive Entertainment Part time structure

The course consists of four blocks of studies

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

Block B: Major (8 units) selected from Animation; Digital Media; Games Design; 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
	Block B or Block C or Block D Unit
	Note: Coop Ed students replace INB380 with INS011 and INS012

Bachelor of Games & Interactive Entertainment Course structure 2009

The course consists of four blocks of studies

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

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

Block C: Minor (4 units)

Block D: Electives (4 units)

The Cooperative Education Programs are replacements for general IT electives

Year 1, Semester 1

INB180	Computer Games Studies
INB104	Building IT Systems

INB103	Industry Insights
INB204	Special Topic 1

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

INB380	Games Project
	Block B or Block C or Block D Unit
	Block B or Block C or Block D Unit
	Note: Coop Ed students replace INB380 with INS011 and INS012

Bachelor of Games & Interactive Entertainment Course structure 2008

The course consists of four blocks of studies

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

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

Block C: Minor (4 units)

Block D: Electives (4 units)

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

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

ITB009	Core Project Management
	Block B or Block C or Block D Unit
	Block B or Block C or Block D Unit
	Block B or Block C or Block D Unit

Year 3, Semester 2

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

Bachelor of Games & Interactive Entertainment Course structure 2007

The course consists of four blocks of studies

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

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

Block C: Minor (4 units)

Block D: Electives (4 units)

Year 1, Semester 1

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

Year 1, Semester 2

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

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

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

Year 3, Semester 1	
ITB009	Core Project Initiation
	Block B or Block C or Block D Unit
	Block B or Block C or Block D Unit
	Block B or Block C or Block D Unit

Year 3, Semester 2	
ITB020	Project
	Block B or Block C or Block D Unit
	Block B or Block C or Block D Unit

IT Elective List

IT Elective Units	
INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB313	Electronic Commerce Site Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB385	Multimedia Systems
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
INB333	Information Programs
INB334	Information Issues and Values
INB335	Information Resources
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
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
INS352	CCNP1: Building Scalable Internetworks
INS350	CCNA 1&2 Network Fundamentals and Routing
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
INB355	Cryptology and Protocols
INB365	Systems Programming
INB860	Computational Intelligence for Control and Embedded Systems
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB334	Information Issues and Values

Potential Careers:

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

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

Year offered: 2010
Admissions: Yes
CRICOS code: 059710E
Course duration (full-time): 3 years
Domestic fees (indicative): 2010: CSP $3,720 (indicative) per semester
International Fees (indicative): 2010: $11,000 (indicative) per semester
Domestic Entry: February: Fixed closing date - 27th November, 2009
International Entry: February: Fixed closing date - 27th Novemeber, 2009. This course is only available to international students completing Year 12 in Australia
Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Course coordinator: Dr Peta Wyeth
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.

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.

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.
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Professional Recognition

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

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:

Peter Wyeth
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

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

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

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 2, Summer	
INB380	Games Project

Year 3, 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
	INN Honours Elective

Year 3, Semester 2	
INN700	Introduction To Research
INN401	Honours Dissertation 1
	INN Honours Elective
	INN Honours 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	
KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KVB105	Drawing for Design
KVB106	Drawing for Animation
KIB220	Animation Production
KIB203	Introduction to 3D Computer Graphics
KIB225	Character Development, Conceptual Design and Animation Layout
KIB325	Real-Time 3D Computer Graphics

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

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

Software Technologies*	

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

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

Students select a Minor from the following

Animation

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

Advanced Animation#

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

Advanced Software Technologies #

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

Digital Media

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

Entrepeneurship

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

Game Design

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

Legal Issues

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

Marketing

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

Mathematics for Games#

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

Mobile and Network Technologies

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

Sound Design

KMB106	Music and Sound for Multimedia

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

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

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

Potential Careers:

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

Bachelor of Corporate Systems Management (IT06)

Year offered: 2010
Admissions: Yes
CRICOS code: 059712C
Course duration (full-time): 3 years
Domestic fees (indicative): 2010: CSP $3,890 (indicative) per semester
International Fees (indicative): 2010: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 416301
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 288
Course coordinator: Dr Taizan Chan
Campus: Gardens Point

Course Overview

The Bachelor of Corporate Systems Management will give students the skills and knowledge to identify and communicate business system needs, select the right information systems and integrate these systems into organisations to improve business performance.

The course is industry relevant and flexible, with the option to focus studies on areas such as IT management, enterprise systems, IT consulting, business process engineering, and knowledge management. Students will learn about, and come to understand, the interrelationship of information technology, business and client relations.

Career Outcomes

The professional skills gained from the Bachelor of Corporate Systems Management are applicable across all business domains. Students will gain knowledge and an understanding of how to work with people and clients, operations, systems and production, while learning how to apply a strategic focus in a management role.

As a graduate, students can expect to work as a business analyst or consultant, enterprise architect, information or knowledge strategist, ICT project manager or IT infrastructure manager.

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.

Professional Recognition

Recognition of the course by the Australian Computer Society (ACS) is being sought.

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

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances. 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:

Science and Technology Course Co-ordinator
Dr Taizan Chan
Phone: +61 73138 2782
Email: enquiry.scitech@qut.edu.au

Bachelor of Corporate Systems Management 2010

Course Structure 2010

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Block B: Complementary Studies

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

Information Management/Information Technology Management

INB312	Enterprise Systems Applications
INB335	Information Resources

Adult and Community Leaning

SPB100	Introduction to Adult Learning and Development
SPB106	Managing Learning Organisations

Banking and Finance

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

Business Systems Engineering

INB210	Databases
INB270	Programming
INB311	Enterprise Systems
	Intermediate Level IT Elective

Creative Industries Management

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

Construction Management - Administration

UDB101	Stewardship of Land
UDB104	Urban Development Economics

UDB110	Residential Construction and Engineering
UDB111	Engineering Construction Materials

Databases

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

Electronic Business

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

Entrepreneurship

AMB240	Marketing Planning and Management
AMB251	Innovation and Brand Management

Human Resource Management

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

Law

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

Management

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

Marketing

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

Organisational Psychology

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

Public Health

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

Intermediate Level Electives

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

Bachelor of Corporate Systems Management 2009

Course Structure - 2009

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

INB312	Enterprise Systems Applications
INB322	Information Systems Consulting

	Block B Unit
	Block B Unit

Year 3, Semester 2

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

Block B: Complementary Studies

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

Information Management/Information Technology Management

INB312	Enterprise Systems Applications
INB335	Information Resources

Adult and Community Leaning

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

Finance

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

Business Systems Engineering

INB210	Databases
INB270	Programming
INB311	Enterprise Systems
	Intermediate Level IT Elective

Creative Industries Management

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

Construction Management - Administration

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

Databases

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

Forensics

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

Entrepreneurship

AMB240	Marketing Planning and Management
AMB251	Innovation and Brand Management

Human Resource Management

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

International Studies

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

Law

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

Management

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

Marketing

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research

AMB240	Marketing Planning and Management
AMB241	E-Marketing Strategies
AMB341	Strategic Marketing

Organisational Psychology

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

Public Health

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

Intermediate Level Electives

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

Bachelor of Corporate Systems Management 2008

Course Outline - 2008

Block A: Core Units (16 Units)

Block B: Complementary Studies (8 units)

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Block B: Complementary Studies

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

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

Banking and Finance (Faculty of Business)

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

Business Needs Analysis (Faculty of IT

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

Business Systems Engineering (Faculty of IT)

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

Creative Industries Management (Creative Industries

Faculty)

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

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

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

Databases

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

Electronic Business (Faculty of IT/Faculty of Business)

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

Entrepreneurship (Faculty of Business)

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

Games Development (Faculty of IT)

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

Games Technology (Faculty of IT)

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

Human Resource Management (Faculty of Business)

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

Information Systems (Faculty of IT)

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

Information Technology Management (Faculty of IT)

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

International Studies (QUT Carseldine)

HHB110	Introduction To International And Global Studies
HHB111	Issues In International And Global Studies
HHB107	World Regions
HHB223	Islam and Islamic Societies
HHB263	Politics Of Globalisation

Information Technology Project Management (Faculty of IT)

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

Law (Faculty of Law)

LWB141	Legal Institutions and Method
LWB142	Law, Society and Justice
LWB144	Laws and Global Perspectives

LWB136	Contracts A
LWB137	Contracts B
LWB482	Internet Law
LWB484	Electronic Commerce and Technology Contracts

Management (Faculty of Business)

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

Marketing (Fculty of Business)

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

Public Health (Faculty of Health)

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

Justice Studies (Faculty of Law)

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

Bachelor of Corporate Systems Management 2007

Course Outline - 2007

Block A: Core Units (16 Units)

Block B: Complementary Studies (8 units)

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

BSB126	Marketing
ITB365	Business Analysis
ITB366	Information Systems Operations
	Block B Unit

Year 2, Semester 2

ITB823	Web Sites For Electronic Commerce
EFB	Financial Information Systems
	Block B Unit
	Block B Unit

Year 3, Semester 1

ITB264	Information Systems Consulting
ITB370	Project
	Block B Unit
	Block B Unit

Year 3, Semester 2

ITB298	Business Process Engineering
ITB233	Enterprise Systems Applications
	Block B Unit
	Block B Unit

Block B: Complementary Studies

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

Information Management/Information Technology Management (Faculty of IT)

ITB241	Information Technology Management
ITB266	Information Management
ITB272	Information Technology Project Management
ITB294	Information Quality
ITB322	Information Resources
ITB330	Information Issues and Policy
ITB255	Knowledge Management
ITB3XX	

Adult and Community Learning (Faculty of Education)

EDB101	Professional Foundations for Learning Facilitation 1
EDB102	Professional Foundations for Learning Facilitation 2
SPB100	Introduction to Adult Learning and Development
SPB101	Getting to Know Great Thinkers in Adult Education
SPB102	Professional Communication in Adult Learning

	Contexts
SPB103	Program Design, Assessment, Reporting, and Evaluation

Banking and Finance (Faculty of Business)

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

Business Systems Engineering (Faculty of IT)

ITB003	Object Oriented Programming
ITB004	Database Systems
ITB008	Modelling Analysis and Design
ITB222	Systems Analysis and Design
ITB228	Enterprise Systems
ITB292	Enterprise Architecture
ITB296	Information Systems Theory and Applications

Creative Industries Management (Creative Industries Faculty)

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

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

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

Databases

ITB003	Object Oriented Programming
ITB004	Database Systems
ITB008	Modelling Analysis and Design
ITB229	Database Design
ITB239	Enterprise Data Mining
ITB295	XML: Data and Document Processing

Electronic Business (Faculty of IT/Faculty of Business)

ITB004	Database Systems
ITB007	Web Development
ITB228	Enterprise Systems
ITB239	Enterprise Data Mining
BSB212	Electronic Business Applications
BSB213	Governance Issues in E-Business
BSB314	E-Business Intelligence

Entrepreneurship (Faculty of Business)

MGB223	Creating New Enterprises
MGB218	Venture Skills
AMB240	Marketing Planning and Management
AMB251	Innovation and Market Development

Human Resource Management (Faculty of Business)

MGB207	Human Resource Issues and Strategy
MGB211	Organisational Behaviour
MGB314	Organisational Consulting and Change
MGB331	Training and Development

International Studies (QUT Carseldine)

HHB110	Introduction To International And Global Studies
HHB111	Issues In International And Global Studies
HHB107	World Regions
HHB223	Islam and Islamic Societies
HHB263	Politics Of Globalisation

Law (Faculty of Law)

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

Management (Faculty of Business)

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

Marketing (Faculty of Business)

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

Organisational Psychology (Faculty of Health)

PYB012	Psychology
PYB007	Interpersonal Processes and Skills

PYB205	Social Psychology
PYB302	Industrial and Organisational Psychology

Public Health (Faculty of Health)

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

Bachelor of Corporate Systems Management Part Time

Part-time Course Structure 2010

Year 1, Semester 1

INB120	Corporate Systems
INB122	Organisational Databases

Year 1, Semester 2

INB103	Industry Insights
INB101	Impact of IT

Year 2, Semester 1

BSB115	Management
	Block B Unit

Year 2, Semester 2

INB123	Project Management Practice
INB124	Information Systems Development

Year 3, Semester 1

INB220	Business Analysis
INB221	Technology Management

Year 3, Semester 2

MGB223	Entrepreneurship and Innovation
	Block B Unit

Year 4, Semester 1

BSB126	Marketing
	Block B Unit

Year 4, Semester 2

INB313	Electronic Commerce Site Development
	Block B Unit

Year 5, Semester 1

INB312	Enterprise Systems Applications
INB322	Information Systems Consulting

Year 5, Semester 2

	Block B Unit
	Block B Unit

Year 6, Semester 1

INB325	Corporate Systems Management Project
	Block B Unit

Year 6, Semester 2

INB320	Business Process Modelling
	Block B Unit

Block B: Complementary Studies

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

Information Management/Information Technology Management

INB312	Enterprise Systems Applications
INB335	Information Resources

Adult and Community Leaning

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

Banking and Finance

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

Business Systems Engineering

INB210	Databases
INB270	Programming
INB311	Enterprise Systems
	Intermediate Level IT Elective

Creative Industries Management

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

Construction Management - Administration

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

Databases

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

Electronic Business

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

Entrepreneurship

AMB240	Marketing Planning and Management
AMB251	Innovation and Brand Management

Human Resource Management

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

International Studies

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

Law

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

Management

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

Marketing

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

Organisational Psychology

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

Public Health

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

Intermediate Level Electives

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

IT Elective List

IT Elective Units

INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB313	Electronic Commerce Site Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB385	Multimedia Systems
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
INB333	Information Programs
INB334	Information Issues and Values
INB335	Information Resources
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB350	Internet Protocols and Services
INB351	Computer Network Administration

INB352	Network Planning and Deployment
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
INS352	CCNP1: Building Scalable Internetworks
INS350	CCNA 1&2 Network Fundamentals and Routing
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
INB355	Cryptology and Protocols
INB365	Systems Programming
INB860	Computational Intelligence for Control and Embedded Systems
INB345	Mobile Devices
INB346	Enterprise 2.0
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: 2010
Admissions: Yes
CRICOS code: 059712C
Course duration (full-time): 3 years
Domestic fees (indicative): 2010: CSP $3,890 (indicative) per semester
International Fees (indicative): 2010: $11,000 (indicative) per semester
Domestic Entry: February: Fixed closing date - 27th November, 2009
International Entry: February: Fixed closing date - 27th Novemeber, 2009. This course is only available to international students completing Year 12 in Australia
Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Course coordinator: Dr Taizan Chan
Campus: Gardens Point

Course Overview

The Dean's Scholars Program is an accelerated honours program allowing completion of the Bachelor of Corporate Systems Management 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 Corporate Systems Management is an industry-relevant course designed to help you understand the interrelationships between information, technology, business and people. The information professional of the future understands the benefits that cutting-edge technology can deliver. You can add value by helping organisations understand and meet their information challenges.

The course 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.

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.

Professional Recognition

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

Unit Incompatibility/Translation Information

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

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 27 November, 2009.

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

Year 2, Semester 1	
INB220	Business Analysis
INB221	Technology Management
MGB223	Entrepreneurship and Innovation
	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
	Honours Coursework Elective

Year 3, Semester 2	
INN700	Introduction To Research
	Honours Coursework Elective
	Honours Coursework Elective
INN401	Honours Dissertation 1

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

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

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: 2010
Admissions: Yes
CRICOS code: 063028M
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $3,890 (indicative) per semester
International Fees (indicative): 2010: $10,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 416932
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Richard Thomas (Information Systems), Dr Taizan Chan (Corporate Systems Management)
Campus: Gardens Point

Course Description

This degree equips you to build and apply creative, innovative IT solutions across diverse industries. A hands-on, real world based curriculum gives you the opportunity to explore a wide range of areas within the two strands of this degree, and gain deep understanding within your chosen area speciality, such as networking, software engineering, data warehousing, business process modelling, enterprise systems, information management, web technologies, or digital societies. You will experience an innovative, hands-on approach to learning through projects where you develop IT systems. You will be able to gain entrepreneurial skills if you wish to learn how to develop an idea into a commercial opportunity. You learn to harness your creativity and people skills to maximise the impact of your technical know-how in the booming IT marketplace. It positions you for a challenging and rewarding career within the global economy. Full-time students are eligible for the Cooperative Education Program; paid industry work experience with credit towards your degree. Students are also offered many other work-integrated learning opportunities where you receive first-hand industry experience.

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

Entry Requirements

Year 12 or equivalent
Prerequisites: Nil
Assumed Knowledge: English (4,SA), Maths A, B or C (4,SA)
Primary Fields: B or C
Secondary Fields: B or C
OP Guarantee: Yes

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, 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

Cooperative Education Program
The School of 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.

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

IT07 - Course Structure for students who commenced in 2010

IT07 Course Outline 2010

Year 1, Semester 1

INB120	Corporate Systems
INB122	Organisational Databases
INB101	Impact of IT
INB102	Emerging Technology

Year 1, Semester 2

INB123	Project Management Practice
BSB115	Management
INB103	Industry Insights
INB104	Building IT Systems

Year 2, Semester 1

INB220	Business Analysis
BSB126	Marketing
	IT Breadth Option
	IT Breadth Option

Year 2, Semester 2

INB124	Information Systems Development
MGB223	Entrepreneurship and Innovation
	IT Breadth Option
	IT Breadth Option

Year 3, Semester 1

INB322	Information Systems Consulting
INB221	Technology Management
INB201	Scalable Systems Development
	IT Specialisation Option

Year 3, Semester 2

INB300	Professional Practice in IT
INB313	Electronic Commerce Site Development
	General Elective
	IT Specialisation Option

Year 4, Semester 1

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

Year 4, Semester 2

INB320	Business Process Modelling
INB302	Capstone Project
	IT Specialisation Option
	IT Specialisation Option

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

IT07 Course Outline 2009

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	
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
	Special Option

Year 3, Semester 2

INB300	Professional Practice in IT
INB313	Electronic Commerce Site Development
	General Elective
	Special Option

Year 4, Semester 1

INB312	Enterprise Systems Applications

INB325	Corporate Systems Management Project
INB301	The Business of IT
	Special Option

Year 4, Semester 2

INB320	Business Process Modelling
INB330	Information Management
INB302	Capstone Project
	Special Option

IT Specialisation Option Unit List

IT Specialist Option Units

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

1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB343	Advanced Data Mining and Data Warehousing
	Please note: INB343 not offered in 2010
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	Computer Network Administration
INB352	Network Planning and Deployment
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
INB860	Computational Intelligence for Control and Embedded Systems

Please note:

INB343 & INB323 are not offered in 2010

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	Systems Architecture
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

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

Year offered: 2010
Admissions: No
CRICOS code: 063028M
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $4,110 (indicative) per semester
International Fees (indicative): 2010: $10,500 (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), Dr Taizan Chan (Corporate Systems Management)
Campus: Gardens Point

Course structure

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

Bachelor of Corporate Systems Management/ Bachelor of Information Technology

Course Structure 2009 (Continuing Students Only)

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

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Year 4, Semester 1

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

Year 4, Semester 4

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

Bachelor of Corporate Systems Management/ Bachelor of Information Technology

Year 1, Semester 1

ITB360	Corporate Systems
ITB362	Organisational Databases
ITB002	IT Professional Studies
ITB005	Systems Architecture

Year 1, Semester 2

ITB363	Project Management Practice
BSB115	Management, People and Organisations
ITB004	Database Systems
ITB006	Networks

Year 2, Semester 1

ITB361	Socio-technical Systems
BSB126	Marketing
ITB001	Problem Solving and Programming
ITB008	Modelling Analysis and Design

Year 2, Semester 2	
ITB364	Information Systems Development
EFB	Financial Information Systems
ITB003	Object Oriented Programming
ITB007	Web Development

Year 3, Semester 1	
ITB365	Business Analysis
ITB366	Information Systems Operations
	IT Unit - See Appendix 4
	IT Unit - See Appendix 4

Year 3, Semester 2	
ITB264	Information Systems Consulting
	IT Elective
	IT Unit - See Appendix 4
	IT Unit - See Appendix 4

Year 4, Semester 1	
ITB266	Information Management
ITB370	Project
	General Elective
	IT Unit - See Appendix 4

Year 4, Semester 4	
ITB298	Business Process Modelling
ITB233	Enterprise Systems Applications
	General Elective
	IT Unit - See Appendix 4

IT Elective List

IT Elective Units	
INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB313	Electronic Commerce Site Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB385	Multimedia Systems
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
INB333	Information Programs
INB334	Information Issues and Values
INB335	Information Resources
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
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
INS352	CCNP1: Building Scalable Internetworks
INS350	CCNA 1&2 Network Fundamentals and Routing
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
INB355	Cryptology and Protocols
INB365	Systems Programming
INB860	Computational Intelligence for Control and Embedded Systems
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB334	Information Issues and Values

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

Year offered: 2010
Admissions: Yes
CRICOS code: 063029K
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $3,890 (indicative) per semester
International Fees (indicative): 2010: $10,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 416912
Past rank cut-off: 74
Past OP cut-off: 13
Assumed knowledge: English, Maths A, B or C
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Course coordinator: Dr Peta Wyeth, Taizan Chan
Discipline coordinator: Dr Taizan Chan (BCSM); Ruth Christie (BGIE)
Campus: Gardens Point and Kelvin Grove

Course overview

In this double degree students complete the requirements for two separate degrees in four years. The course consists of units in both corporate systems management and games and interactive entertainment. In the corporate systems management component students are taught the interrelationship between information, technology, business and people. This component develops the knowledge and skills needed to understand and communicate business needs, select the right systems and integrate these systems to improve business performance. In the games and interactive entertainment component students complete core units in the basics of design, games studies, professional skills and programming and then choose a major from the list below. In final year, students participate in a major group project to produce a significant piece of work using PC, mobile devices, consoles or virtual reality. Full time students can take part in the Cooperative Education Program, offering one year paid industry placement and credit towards their degree (subject to satisfying eligibility requirements).

Majors: Animation and computational arts; digital media; game design; and software technologies.

Cooperative Education Program

The School of 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.

Futher Information

For further information about this course, please contact:

Course Coordinator
ASPRO Ruth Christie
Phone:(07)3138 2782
Email: enquiry.scitech@qut.edu.au

IT09 Course Structure 2010

Year 1, Semester 1	
INB120	Corporate Systems
INB103	Industry Insights
INB180	Computer Games Studies
INB182	Introducing Design

Year 1, Semester 2	
BSB115	Management
INB104	Building IT Systems
INB123	Project Management Practice
INB181	Introduction to Games Production

Year 2, Semester 1	
INB101	Impact of IT
INB122	Organisational Databases
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 2, Semester 2	
INB124	Information Systems Development
BSB126	Marketing
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 3, Semester 1	
INB220	Business Analysis
INB221	Technology Management
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 3, Semester 2	
MGB223	Entrepreneurship and Innovation
INB301	The Business of IT
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 4, Semester 1	
INB379	Game Project Design
INB322	Information Systems Consulting
INB312	Enterprise Systems Applications

INB325	Corporate Systems Management Project
	Or
	IT Elective Unit

Year 4, Semester 2

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

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

Animation

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

Digital Media

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

Game Design

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

Software Technologies*

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

IT09 Course Structure 2009

Year 1, Semester 1

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

Year 1, Semester 2

BSB115	Management
INB104	Building IT Systems
INB123	Project Management Practice
INB181	Introduction to Games Production

Year 2, Semester 1

INB101	Impact of IT
INB122	Organisational Databases
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 2, Semester 2

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

Year 3, Semester 1

INB220	Business Analysis
INB221	Technology Management
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 3, Semester 2

MGB223	Entrepreneurship and Innovation
INB301	The Business of IT
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 4, Semester 1

INB379	Game Project Design
INB322	Information Systems Consulting

INB312	Enterprise Systems Applications
INB325	Corporate Systems Management Project
	Or
	IT Elective Unit

Year 4, Semester 2

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

IT09 Course Structure 2008

Year 1, Semester 1

ITB002	IT Professional Studies
ITB360	Corporate Systems
ITB750	Computer Game Studies
DEB101	Introducing Design

Year 1, Semester 2

BSB115	Management, People and Organisations
ITB001	Problem Solving and Programming
ITB363	Project Management Practice
ITB751	Games Production

Year 2, Semester 1

ITB361	Socio-technical Systems
ITB362	Organisational Databases
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 2, Semester 2

ITB364	Information Systems Development
ITB823	Web Sites For Electronic Commerce
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 3, Semester 1

ITB365	Business Analysis
ITB366	Information Systems Operations
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 3, Semester 2

MGB223	Entrepreneurship and Innovation
ITB009	Core Project Management
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 4, Semester 1

BSB126	Marketing
ITB233	Enterprise Systems Applications
ITB264	Information Systems Consulting
ITB370	Project
	or
	General Elective Unit
	ITS010 Co-op Education replaces either ITB370 or General Elective unit

Year 4, Semester 4

ITB298	Business process Modelling
	Games & Interactive Entertainment Major Unit
ITB020	Project

University Diploma in Information Technology (IT10)

Year offered: 2010
Admissions: Yes
CRICOS code: 025283M
Course duration (full-time): 2 semesters
International Fees (indicative): 2010: $8,111 (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
Campus: Kelvin Grove

Abbreviation

UnivDipInfTech

Entry requirements - Academic

Successful completion of senior high school with the required grades. Students can find more country specific entry requirements at the following web site. http://www.international.qut.edu.au/apply/index.jsp

Entry Requirements - English language

Queensland Senior English (Low Achievement) or IELTS 5.5 with no sub-score less than 5.0 or TOEFL iBT Overall score of 69 (at least 18 in writing and reading and 17 or more in listening and speaking) or TOEFL 525 (paper) or TOEFL 193 (CBT) or equivalent, or successful completion of the EAP program. (N.B. Students should also check visa requirements).

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.

Progression

Requirements for progression to the second year of QUT Bachelor of Information Technology:

i) fulfil the Diploma course requirements,
ii) a minimum Grade Point Average (GPA) of 4, and
iii) an IELTS score of 6.5 or its equivalent.

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

Semester One	
IND103	Industry Insights
IND104	Building IT Systems
IND251	Networks
QCD120	Professional Communication 1
	NOTE: IND103 & IND251 are offered in ALTERNATE semesters

Semester Two	
IND102	Emerging Technology
IND210	Databases
IND270	Programming
QCD220	Professional Communication 2
	NOTE: IND102 & IND210 are offered in ALTERNATE semesters

Potential Careers:

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

Bachelor of Information Technology (IT21)

Year offered: 2010
Admissions: No
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): 2010: CSP $3,780 (indicative) per semester
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 288
Course coordinator: 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 School of 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.

Deferment

From 2006, QUT will allow Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

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	Systems Architecture
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	Computer Network Administration
INB352	Network Planning and Deployment
INB353	Wireless and Mobile Networks
INB255	Security
	Five (5) Major Elective Units to be chosen from the IT Elective List

IT21 - Electronic Commerce Major

Electronic Commerce Major	
BSB213	Governance Issues in E-Business
INB271	The Web
INB311	Enterprise Systems
INB340	Database Design
INB313	Electronic Commerce Site Development
INB350	Internet Protocols and Services
INB255	Security
	Four (4) Major Elective Units to be chosen from the IT Elective List

IT21 - Emerging Technologies Major

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

IT21 - Information Systems Major

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

IT21 - Software Engineering Major

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

IT21 - Data Communications & Information Systems Major

Data Communications & Information Systems Major	
INB271	The Web
INB311	Enterprise Systems
INB340	Database Design
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB353	Wireless and Mobile Networks

INB255	Security
	Five (5) Major Elective Units to be chosen from the IT Elective List

IT21 - Data Communications & Software Engineering Major

Data Communications & Software Engineering Major	
INB301	The Business of IT
INB372	Agile Software Development
INB371	Data Structures and Algorithms
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB353	Wireless and Mobile Networks
INB255	Security
INB370	Software Development
	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	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

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: 2010
Admissions: No
Course duration (full-time): 3 years
Course duration (part-time): 6 years
Domestic fees (indicative): 2010: CSP $3,780 (indicative) per semester
International Fees (indicative): 2010: $11,000 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 288
Course coordinator: Richard Thomas
Campus: Gardens Point

Course Information

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

Course Overview

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

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

Course Requirements

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

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

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

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

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

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

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

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

Scholarships

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

Find out more about the range of scholarships available.

Cooperative Education Program

The School of 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.

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.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances. 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:

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	Systems Architecture

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	Capstone Project
	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit

Year 3, Semester 2

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

No Major Options

Students can choose any 6 INB--- units (subject to prerequisite eligibility) from the Information Technology Undergraduate Elective/Options List as found at the below URL.

http://www.studentservices.qut.edu.au/pdfs/IT_elective_list.pdf

Information Systems Major

Compulsory Units	
INB311	Enterprise Systems
INB340	Database Design
INB220	Business Analysis

IS Elective Units	
INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB124	Information Systems Development
INB221	Technology Management

Network Systems Major

Compulsory Units	
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
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 is only to be used as a prereq for INB381
MAB281	Mathematics for Computer Graphics

Intermediate Level Electives

Intermediate Level Electives	
INB120	Corporate Systems
INB220	Business Analysis
INB255	Security
INB272	Interaction Design
	OR
	an INB300 level unit as approved by the course coordinator

IT Elective List

IT Elective Units	
INB123	Project Management Practice
INB221	Technology Management
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB313	Electronic Commerce Site Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB385	Multimedia Systems
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
INB333	Information Programs
INB334	Information Issues and Values
INB335	Information Resources
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
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
INS352	CCNP1: Building Scalable Internetworks
INS350	CCNA 1&2 Network Fundamentals and Routing
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
INB355	Cryptology and Protocols
INB365	Systems Programming
INB860	Computational Intelligence for Control and Embedded Systems
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB334	Information Issues and Values

Business Systems Engineering Major (pre 2008)

Compulsory Units	
INB220	Business Analysis
INB311	Enterprise Systems
INB320	Business Process Modelling
INB335	Information Resources

IS Elective Units	
	Select two (2) units from the following list
INB123	Project Management Practice
INB306	Project 1
INB312	Enterprise Systems Applications
INB323	Smart Services
INB340	Database Design
INB341	Software Development With Oracle
INB321	Business Process Management
INB322	Information Systems Consulting

Databases Major (pre 2008)

Core units	
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining

Elective units	
	Choose 3 Elective units from the following list:
INB306	Project 1
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB313	Electronic Commerce Site Development
INB320	Business Process Modelling
INB330	Information Management
INB335	Information Resources
INB343	Advanced Data Mining and Data Warehousing

Electronic Business Major (pre 2008)

Compulsory Units	
INB312	Enterprise Systems Applications
INB313	Electronic Commerce Site Development
INB342	Enterprise Data Mining
BSB212	Electronic Business Applications
BSB213	Governance Issues in E-Business
BSB314	E-Business Intelligence

Games Technology Major (pre 2008)

Compulsory Units	
INB370	Software Development
INB371	Data Structures and Algorithms
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
INB383	AI for Games
MAB281	Mathematics for Computer Graphics

Information Systems Major (pre 2008)

Compulsory Units	
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB340	Database Design

IS Elective Units	
	Select three (3) units from the following list
INB306	Project 1
INB312	Enterprise Systems Applications
INB322	Information Systems Consulting
INB335	Information Resources
INB341	Software Development With Oracle

Information Technology Management Major (pre 2008)

Compulsory Units	
INB221	Technology Management
INB322	Information Systems Consulting
INB335	Information Resources

IS Elective Units

Select three (3) units from the following list:

INB123	Project Management Practice
INB124	Information Systems Development
INB220	Business Analysis
INB341	Software Development With Oracle
INB306	Project 1
INB311	Enterprise Systems
INB340	Database Design

Intelligent Systems Major (pre 2008)

Compulsory Units

INB335	Information Resources
INB342	Enterprise Data Mining
INB371	Data Structures and Algorithms
INB860	Computational Intelligence for Control and Embedded Systems
	IT Elective (INB383 and INB343 recommended)
	IT Elective
	6 Units required

Interactive Media Major (pre 2008)

Compulsory Units

6 Compulsory units required.

INB272	Interaction Design
INB385	Multimedia Systems
INB386	Advanced Multimedia Systems
KIB101	Foundations of Communication Design 1
KIB102	Foundations of Communication Design 2

Elective Units

Select one (1) unit from the following list:

KIB103	Media Technology 1
KIB105	Animation and Motion Graphics
KIB108	Animation Practices

KIB units

Only students enrolled in the IAM major may enrol in KIB*** units without the approval of the Creative Industries Faculty. These units are held at Kelvin Grove campus - class code to be KG

Network Systems Major (pre 2008)

Compulsory Units

6 Compulsory units required.

INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
INB353	Wireless and Mobile Networks
INB365	Systems Programming
	IT Elective

Security Major (pre 2008)

Compulsory Units

6 Compulsory units required.

INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB255	Security
INB355	Cryptology and Protocols
	IT Elective
	IT Elective

Software Architecture Major (pre 2008)

Compulsory Units

6 Compulsory units required.

INB340	Database Design
INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development
INB374	Enterprise Software Architecture
	IT Elective

Web Services and Applications Major (pre 2008)

Compulsory Units

4 Compulsory units required.

INB272	Interaction Design
INB313	Electronic Commerce Site Development
INB373	Web Application Development
INB374	Enterprise Software Architecture

Choose 1 of the following:

INB255	Security
INB350	Internet Protocols and Services
INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development

Elective Units (1)

IT Elective

Complementary Studies (Block C) (pre 2008)

Students choose the composition of the third block of the course from the following:

A six unit set (which may be chosen from the IT Majors) and two electives, or

An approved fours unit set and four electives, or

Eight specified Complementary Studies Electives

In selecting Block C Complementary Studies Electives, students may choose:

Units form other Bachelor of Information Technology majors; and/or

Units from any degree-level course offered at QUT; and/or

Industry Certification courses (eg. Cisco Certified Network Professional (CCNP), Microsoft Certified Solution Developer (MCSD) etc.) up to a limit of 48 credit points in Block C units as specified. Students wishing to pursue this option should discuss this with the Course Coordinator; and/or

With the approval of the Course Coordinator, units from any degree-level or equivalent tertiary-level course offered at other tertiary-level institutions.

Potential Careers:

Business Analyst, Computer Game Programmer, Computer Games Developer, Computer Systems Engineer, Data Communications Specialist, Database Manager, Electronic Commerce Developer, Information Security Specialist, Internet Professional, Multimedia Designer, Network Administrator, Network Manager, Programmer, Project Manager, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer, Web Designer.

Bachelor of Information Technology - Dean's Scholars Program (IT22)

Year offered: 2010
Admissions: No
Course duration (full-time): 3 years
Domestic fees (indicative): 2010: CSP $3,780 (indicative) per semester
International Fees (indicative): 2010: $11,000 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Course coordinator: 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 School of 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. 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.

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.

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).

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.

Further Information

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

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

Bachelor of Information Technology

Course Structure

Recommended Core Unit Progression

Year 1, Semester 2	
INB270	Programming
INB251	Networks
INB271	The Web
	Intermediate Level Elective

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

Year 2, Semester 2	
INB301	The Business of IT
	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit
	Block B or Block C Unit

Year 2, Summer	
INB302	Capstone Project
	Undertaken over four (4) weeks.

Year 3, Semester 1	
	Block B or Block C Unit
	Block B or Block C Unit

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

Year 3, Semester 2	
INN700	Introduction To Research
	INN Elective
	INN Elective
INN401	Honours Dissertation 1

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

Software Architecture Major

Compulsory Units	
INB340	Database Design
INB371	Data Structures and Algorithms
INB372	Agile Software Development

Electives	
	Choose 3 Electives
INB341	Software Development With Oracle
INB311	Enterprise Systems
INB312	Enterprise Systems Applications
INB272	Interaction Design
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB365	Systems Programming
INB370	Software Development
INB373	Web Application Development
INB374	Enterprise Software Architecture
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
	MAB281 is only to be used as a prereq for INB381
MAB281	Mathematics for Computer Graphics

Information Systems Major

Compulsory Units	
INB311	Enterprise Systems
INB340	Database Design
INB220	Business Analysis

IS Elective Units	
INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB124	Information Systems Development
INB221	Technology Management

Network Systems Major

Compulsory Units	
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
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: 2010
Admissions: Yes
CRICOS code: 012656E
Course duration (full-time): 3 years
Course duration (part-time): 6 years
Domestic fees (indicative): 2010: CSP $3,790 (indicative) per semester
International Fees (indicative): 2010: $11,000 (indicative) per semester
Domestic Entry: February and July
International Entry: February, July and October#
QTAC code: 416801
Past rank cut-off: 74
Past OP cut-off: 13
Assumed knowledge: English (4,SA), Maths A, B or C (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 288
Course coordinator: Mr Richard Thomas
Campus: Gardens Point

Study Areas

IT23 will not have nominated majors and minors and consequently there will not be a Study Area A shown on a graduate's parchment. Instead, IT23 will have specialisations. The specialisation areas that will be available for students will include:

- Business Process Management
- Data Warehousing
- Digital Environments
- Enterprise Systems
- Network Systems
- Software Engineering
- Web Technologies

Course Description

This degree equips you to build and apply creative, innovative IT solutions across diverse industries. A hands-on, real world based curriculum gives you the opportunity to explore a wide range of areas within IT, and gain deep understanding within your chosen area speciality, such as networking, software engineering, data warehousing, business process modelling, enterprise systems, information management, web technologies, or digital societies. You experience an innovative, hands-on approach to learning through projects where you develop IT systems. You will be able to gain entrepreneurial skills if you wish to learn how to develop an idea into a commercial opportunity. You learn to harness your creativity and people skills to maximise the impact of your technical know-how in the booming IT marketplace. It positions you for a challenging and rewarding career within the global economy. Full-time students are eligible for the Cooperative Education Program; paid industry work experience with credit towards your degree. Students are also offered many other work-integrated learning opportunities where you receive first-hand industry experience.

Course Structure

Block A: Core Studies
Students obtain a basic grounding in IT by completing eight (8) core IT units. Full-time students will normally take the first four core units (INB101, INB102, INB103 and INB104) in the first semester of their first year and part-time students will take these first four core units over two semesters in their first year. The remaining four core units are to be completed across the rest of the degree.

INB201 should be taken shortly after completing three or four breadth units as it consolidates the material from those units and shows how the knowledge and skills from those units contribute to creating large-scale systems. INB300 and INB301 should be taken after completing at least two specialisation units. INB300 gives you the opportunity to apply your skills in a professional work environment. INB301 prepares you for the completion of your degree and your transition into your career. INB302 should be taken in the final semester of your degree as it consolidates what you have learnt in your degree and demonstrates your overall capabilities.

Block B: Breadth and Depth
Students obtain breadth of IT knowledge by completing four (4) units of their choosing from the Breadth option list. Students gain depth of IT knowledge in an area of their choosing by completing four (4) units from the list of units in the different Specialisations Areas. Many specialisation units have specific breadth units as their pre-requisite. If a particular specialisation area or unit is of interest to you make sure you check on pre-requisites to ensure you take the appropriate breadth units. Note that most breadth and specialisation units are only offered once per year. You will need to check the semester in which units are offered to put together a timetable that allows you to take the units of interest to you. This may require that you adjust your course structure from the one suggested below by taking complimentary studies units earlier or later than indicated.

Block C: Complimentary Studies
Students can compliment their IT knowledge with either study from a different discipline (offered by any other Faculty at QUT) and/or further IT study in a different specialisation area or further breadth or elective units. Students choose a total of eight (8) units in this block.

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

Entry Requirements

Year 12 or equivalent
Prerequisites: Nil
Assumed Knowledge: English (4,SA), Maths A, B or C (4,SA)
Primary Fields: B
Secondary Fields: C
OP Guarantee: Yes

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).
#October entry only for students completing entire degree at QUT (i.e. not eligible for Advanced Standing)

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 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.

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 (http://corptech.com.au/) or for an ACS Foundation scholarship (http://www.acsfoundation.com.au/).

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.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances. Find out more on deferment.

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 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

IT23 Bachelor of Information Technology Course structure 2009

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

Complimentary Studies Unit

Year 2, 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 Breadth Option Unit

IT Specialisation Option Unit

Complimentary Studies Unit

Year 2, Semester 2

IT Specialisation Option Unit

Complimentary Studies Unit

Complimentary Studies Unit

Complimentary Studies Unit

Year 3, Semester 1

INB300 Professional Practice in IT

INB301 The Business of IT

INB300 and INB301 can only be taken after you have completed a minimum of 192 credit points of study.

IT Specialisation Option Unit

Complimentary Studies Unit

Year 3, Semester 2

INB302 Capstone Project

INB301 must be completed before enrolling in INB302.

IT Specialisation Option Unit

Complimentary Studies Unit

Complimentary 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 Systems Architecture

INB251 Networks

INB255 Security

INB270 Programming

INB271 The Web

INB272 Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

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

1. BUSINESS PROCESS MANAGEMENT:

INB320 Business Process Modelling

INB321 Business Process Management

INB322 Information Systems Consulting

INB123 Project Management Practice

2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB343	Advanced Data Mining and Data Warehousing
	Please note: INB343 not offered in 2010
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	Computer Network Administration
INB352	Network Planning and Deployment
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
INB860	Computational Intelligence for Control and Embedded Systems

Please note:

INB343 & INB323 are not offered in 2010

IT - Complementary Study Unit List

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

1.	The list of Breadth and Specialisation units.
2.	Students can also choose from the range of CISCO units including INS350, INS351, INS352, INS353, INS354 and INS355.
3.	Undergraduate units available with other QUT faculties.
NOTE:	A maximum of four units Advanced Standing for industry certification units permitted.

CISCO Units

CISCO Units

	Students can choose from the following CISCO units as part of the Complimentary Study Units
INS350	CCNA 1&2 Network Fundamentals and Routing
INS351	CCNA 3&4 Lan Switching
INS352	CCNP1: Building Scalable Internetworks
INS353	CCNP 2: Building Multi Layered Switched Networks
INS354	CCNP3: Building Multi Layered Switched Networks
INS355	CCNP 4: Optimising Converged Networks

IT23 Course structure - Part-time

Year 1, Semester 1

INB101	Impact of IT
INB102	Emerging Technology

Year 1, Semester 2

INB103	Industry Insights
INB104	Building IT Systems

Year 2, Semester 1

Breadth Option

Breadth Option

Year 2, Semester 2

Breadth Option

Breadth Option

Year 3, Semester 1

INB201	Scalable Systems Development
	INB201 can only be taken after you have completed a minimum of 36 credit points of breadth units.
	Complemenatry Studies Unit (Elective)

Year 3, Semester 2

Specialisation Option

Complemenatry Studies Unit (Elective)

Year 4, Semester 1

Specialisation Option

Complemenatry Studies Unit (Elective)

Year 4, Semester 2

Specialisation Option

Complemenatry Studies Unit (Elective)

Year 5, Semester 1

Specialisation Option

Complemenatry Studies Unit (Elective)

Year 5, Semester 2

INB300 Professional Practice in IT

Complemenatry Studies Unit (Elective)

Year 6, Semester 1

INB301 The Business of IT

INB300 and INB301 can only be taken after you have completed a minimum of 192 credit points of study.

Complemenatry Studies Unit (Elective)

Year 6, Semester 2

INB302 Capstone Project

INB301 must be completed before enrolling in INB302.

Complemenatry Studies Unit (Elective)

IT23 Course structure - Mid-Year entry

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

Complimentary Studies Unit (Elective)

Year 2, Semester 1

Breadth Option

Specialisation Option

Complimentary Studies Unit (Elective)

Complimentary Studies Unit (Elective)

Year 2, Semester 2

INB201 Scalable Systems Development

INB201 can only be taken after you have completed a minimum of 36 credit points of breadth units.

Specialisation Option

Complimentary Studies Unit (Elective)

Complimentary Studies Unit (Elective)

Year 3, Semester 1

INB300 Professional Practice in IT

INB300 can only be taken after you have completed a minimum of 192 credit points of study.

Specialisation Option

Complimentary Studies Unit (Elective)

Year 3, Semester 2

INB301 The Business of IT

INB302 Capstone Project

INB301 can only be taken after you have completed a minimum of 192 credit points of study. INB301 may be taken concurrently with INB302 for students whose course completes in the middle of the year.

Specialisation Option

Complimentary Studies Unit (Elective)

Bachelor of Information Technology - Deans Scholars Program (IT23)

Year offered: 2010
Admissions: Yes
CRICOS code: 012656E
Course duration (full-time): 3 years
International Fees (per semester): 2010: CSP rate 2010 available July 2009 *(subject to annual review)*
International Fees (indicative): 2010: $11,000 (indicative) per semester
Domestic Entry: February: Fixed closing date - 27th November, 2009
International Entry: February: Fixed closing date - 27th November, 2009. This course is only available to international students completing Year 12 in Australia
QTAC code: 416002
Past rank cut-off: 98
Past OP cut-off: 2
Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

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.

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.

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

Deferment

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

Additional Entry Requirements

Applicants are required to complete a questionnaire.

Fixed closing date

Applications for this program will close on 27 November, 2009.

Further Information

For further information about this course, please contact:

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

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

Course structure

Course Structure

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

Bachelor of Information Technology (Honours) (IT28)

Year offered: 2010
Admissions: Yes
CRICOS code: 017323G
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (indicative): 2010: CSP $3,790 (indicative) per semester
International Fees (indicative): 2010: $11,000 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 96
Course coordinator: Dr Jinglan Zhang
Campus: Gardens Point

Course 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

A Bachelor of Information Technology 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.

The 'Accelerated' Honours Program

The 'Accelerated Honours' program has been structured to provide an incentive for high achieving Bachelor of Information Technology students to continue into the Faculty's Honours Program. See course entry IT29 for further information.

Notes

Duration
Except in special circumstances as approved by the Dean, the requirements for an Honours degree must be completed within two successive years following first enrolment.
Unsatisfactory Progress
Failure to make satisfactory progress with either the course work component of an Honours program or with the dissertation, or both, may lead to exclusion from the program.
Unsatisfactory progress consists of:
- receiving a grade of less than 4 (or Satisfactory, where applicable) in one unit of the course work component.
- failure to make sufficient progress with the dissertation component, in the opinion of the Dean.

A student who is excluded from or otherwise fails to complete an Honours program will not normally be readmitted to that program.

Assessment
The minimum grade which may be credited towards an Honours degree is 4 (or Satisfactory, where applicable).
A minimum of three copies of a dissertation should be presented to the supervisor for examination. Dissertations should be temporarily bound in order to facilitate the making of any revisions and editorial changes required by the examiners before final printing and binding.
Dissertations will be examined by an examining committee appointed by the Dean and consisting of a least two examiners, one of whom may be external to the University. The supervisor of the candidate's work may be a member of the committee but may not chair the committee or act as the primary examiner.
Determination of Level of Honours Awards
The Faculty Academic Board will determine the level of Honours awarded.
Honours degrees will be awarded at the following levels after account is taken of the candidate's performance in all units and appropriate weight applied to the dissertation:
Honours 1 - First Class Honours
Honours 2A - Second Class Honours, Division A
Honours 2B - Second Class Honours, Division B
Honours 3 - Third Class Honours
The level of Honours award is to be determined by guidelines, as follows:
Honours 1 - GPA 6.50-7.00, or equivalent
Honours 2A - GPA 5.50-6.49, or equivalent
Honours 2B - GPA 4.50-5.49, or equivalent
Honours 3 - GPA 4.00-4.49, or equivalent
A candidate who does not reach the standard required for Honours 3 remains with a pass degree.

Further Information

For further information about this course, please contact:

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

IT28 - Bachelor of Information Technology (Honours) (2010)

FULL TIME

Year 1, Semester 1

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

Year 1, Semester 2

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

PART TIME

Year 1, Semester 1

INN700	Introduction To Research
INN401	Honours Dissertation 1

Year 1, Semester 2

INN402	Honours Dissertation 2
INN701	Advanced Research Topics

Year 2, Semester 1

INN403	Honours Dissertation 3
	Elective

Year 2, Semester 2

INN404	
	Elective

Elective Units - Students should choose advanced level postgraduate units. Normally units are undertaken in the area of the student's undergraduate major. Students wishing to enrol in a unit that is not of an advanced level should contact the Course Coordinator.

INN701 enrolment - Though students are required to enrol in INN701 in their first semester of honours, the unit offers flexible enrolment through (a) a choice of modules on offer, and through (b) the option of undertaking the minimum necessary number of modules across more than one semester (see INN701 week 1 document for further details on enrolment flexibility).

Full-time students should be aware that many electives may be offered evenings only.

IT28 - Bachelor of Information Technology (Honours) (2009)

FULL TIME

Year 1, Semester 1

INN700	Introduction To Research
INN401	Honours Dissertation 1
	Elective
	Elective

Year 1, Semester 2

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

PART TIME

Year 1, Semester 1

INN700	Introduction To Research
INN401	Honours Dissertation 1

Year 1, Semester 2

INN402	Honours Dissertation 2
	Elective

Year 2, Semester 1

INN403	Honours Dissertation 3
	Elective

Year 2, Semester 2

INN404	
	Elective

Elective Units - Students should choose advanced level postgraduate units. Normally units are undertaken in the area of the student's undergraduate major. Students wishing to enrol in a unit that is not of an advanced level should contact the Course Coordinator.

Full-time students should be aware that many electives may be offered evenings only.

IT28 - Bachelor of Information Technology (Honours) (2008)

FULL TIME

Year 1, Semester 1

ITN100	Introduction to Research
	Elective
	Elective
ITN191	Honours Dissertation 1

Year 1, Semester 2

ITN192	Honours Dissertation 2
ITN193	Honours Dissertation 3
ITN194	Honours Dissertation 4
	Elective

PART TIME

Year 1, Semester 1

ITN100	Introduction to Research
ITN191	Honours Dissertation 1

Year 1, Semester 2

ITN192	Honours Dissertation 2
	Elective

Year 2, Semester 1

ITN193	Honours Dissertation 3
	Elective

Year 2, Semester 2

ITN194	Honours Dissertation 4
	Elective

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.

Full-time students should be aware many electives may be offered evenings only.

IT28 - Bachelor of Information Technology (Honours) Part-time

Year 1, Semester 1

INN700	Introduction To Research
INN401	Honours Dissertation 1

Year 1, Semester 2

INN402	Honours Dissertation 2
INN701	Advanced Research Topics

Year 2, Semester 1

INN403	Honours Dissertation 3
	Honours Elective

Year 2, Semester 2

INN404	Honours Dissertation 4
	Honours Elective

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).

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 Enterprise Systems
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

Mid Year Entry - Full Time

Mid Year Entry - FULL TIME

Year 1, Semester 2

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

Year 1, Semester 3 (Summer)

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

Mid Year Entry - PART TIME

Year 1, Semester 2

INN700	Introduction To Research
INN401	Honours Dissertation 1

Year 1, Semester 3 (Summer)

INN402	Honours Dissertation 2
INN701	Advanced Research Topics

Year 2, Semester 1

INN403	Honours Dissertation 3
	Elective

Year 2, Semester 2

INN404	Honours Dissertation 4
	Elective

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).

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.

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: 2010
Admissions: Yes
CRICOS code: 017323G
Course duration (full-time): 2 semesters
Domestic fees (indicative): 2010: CSP $3,730 (indicative) per semester
International Fees (indicative): 2010: $11,000 (indicative) per semester
Domestic Entry: February and July
International Entry: February and July
Total credit points: 96
Course coordinator: Dr Jinglan Zhang
Campus: Gardens Point

Course 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.

Notes

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.

Futher Information

For further information about this course, please contact:

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

IT29 - Bachelor of Information Technology (Honours) - Accelerated Program (2010)

Year 3, Semester 1*	
	Elective

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

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

* The first semester of the Accelerated Honours Program occurs in the final semester of an undergraduate IT course (48 credit points remaining). This involves a concurrent enrolment with the undergraduate course (36 credit points enrolment) and 12 credit points

Honours elective undertaken within the IT29 course.

Please note: tuition fees normally apply for Summer enrolment. Deans Scholars should contact their IT Course Coordinator for further details.

Elective Units - Students should choose from the list of advanced level postgraduate units. Normally units are undertaken in the area of the student's undergraduate major. Students wishing to enrol in a unit other than those listed should contact the Course Coordinator. Students should note that many electives might be offered in the evenings only.

INN701 enrolment - Though students are required to enrol in INN701 in their first semester of honours, the unit offers flexible enrolment through (a) a choice of modules on offer, and through (b) the option of undertaking the minimum necessary number of modules across more than one semester (see INN701 week 1 document for further details on enrolment flexibility).

MID YEAR ENTRY

Year 3, Semester 2*

Elective

Year 3, Semester 3

INN700	Introduction To Research
INN401	Honours Dissertation 1
INN402	Honours Dissertation 2
INN701	Advanced Research Topics

Year 4, Semester 1

INN403	Honours Dissertation 3
INN404	Honours Dissertation 4
	Elective
	Elective

* The first semester of the Accelerated Honours Program occurs in the final semester of an undergraduate IT course (48 credit points remaining). This involves a concurrent enrolment with the undergraduate course (36 credit points enrolment) and 12 credit points Honours elective undertaken within the IT29 course.

Elective Units - Students should choose advanced level postgraduate units. Normally units are undertaken in the area of the student's undergraduate major. Students wishing to enrol in a unit that is not of an advanced level should contact the Course Coordinator. Students should note that many electives might be offered in the evenings only.

Please note: tuition fees normally apply for Summer enrolment.

INN701 enrolment - Though students are required to enrol in INN701 in their first semester of honours, the unit offers flexible enrolment through (a) a choice of modules on offer, and through (b) the option of undertaking the minimum necessary number of modules across more than one semester (see INN701 week 1 document for further details on enrolment flexibility).

IT29 - Bachelor of Information Technology (Honours) - Accelerated Program (2009)

Year 3, Semester 1*

Elective

Year 3, Semester 2

INN700	Introduction To Research
INN401	Honours Dissertation 1
	Elective
	Elective

Year 3, Semester 3

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

* The first semester of the Accelerated Honours Program occurs in the final semester of an undergraduate IT course (48 credit points remaining). This involves a concurrent enrolment with the undergraduate course (36 credit points enrolment) and 12 credit points Honours elective undertaken within the IT29 course.

Please note: tuition fees normally apply for Summer enrolment. Deans Scholars should contact their IT Course Coordinator for further details.

Elective Units - Students should choose from the list of advanced level postgraduate units. Normally units are undertaken in the area of the student's undergraduate major. Students wishing to enrol in a unit other than those listed should contact the Course Coordinator. Students should note that many electives might be offered in the evenings only.

MID YEAR ENTRY

Year 3, Semester 2*

Elective

Year 3, Semester 3

INN700	Introduction To Research
INN401	Honours Dissertation 1
INN402	Honours Dissertation 2

Year 4, Semester 1

INN403	Honours Dissertation 3
INN404	Honours Dissertation 4
	Elective
	Elective

* The first semester of the Accelerated Honours Program occurs in the final semester of an undergraduate IT course (48 credit points remaining). This involves a concurrent enrolment with the undergraduate course (36 credit points enrolment) and 12 credit points Honours elective undertaken within the IT29 course.

Elective Units - Students should choose advanced level postgraduate units. Normally units are undertaken in the area of the student's undergraduate major. Students wishing to enrol in a unit that is not of an advanced level should contact the Course Coordinator. Students should note that many electives might be offered in the evenings only.

Please note: tuition fees normally apply for Summer enrolment.

IT29 - Bachelor of Information Technology (Honours) - Accelerated Program (2008)

Year 3, Semester 1*	
	Elective

Year 3, Semester 2	
ITN100	Introduction to Research
ITN191	Honours Dissertation 1
	Elective
	Elective

Year 3, Semester 3	
ITN192	Honours Dissertation 2
ITN193	Honours Dissertation 3
ITN194	Honours Dissertation 4

* The first semester of the Accelerated Honours Program occurs in the final semester of the IT22 course (48 credit points remaining). This involves a concurrent enrolment with IT22 (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 the IT22 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	
ITN100	Introduction to Research
ITN191	Honours Dissertation 1
ITN192	Honours Dissertation 2

Year 4, Semester 1	
ITN193	
ITN194	
	Elective
	Elective

* The first semester of the Accelerated Honours Program occurs in the final semester of the IT22 course (48 credit points remaining). This involves a concurrent enrolment with IT22 (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.

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 Enterprise Systems
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

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: 2010
Admissions: No
Course duration (full-time): 1 years
Course duration (part-time): 2 years
Domestic fees (indicative): 2010: Full fee tuition $7,350 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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

INN280	Fundamentals of Game Design
INN281	Advanced Game Design
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
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 Enterprise Systems
INN386	Advanced Multimedia Systems
INN701	Advanced Research Topics
INN382	Real Time Rendering Techniques
INN652	Advanced Cryptology
INN570	Internationalisation of Software
INN650	Advanced Network Management
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN606	Advanced Research 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN607	Advanced Research 3

Project Units

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

Intermediate Level Units

With the approval of the Course Coordinator, students seeking skills in a new IT specialisation can select up to two (2) units from the following list of units.

INN271	The Web
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INN341	Software Development With Oracle
INN311	Enterprise Systems
INN340	Database Design
INN330	Information Management
INN335	Information Resources
INN372	Agile Software Development
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN255	Security
INN355	Cryptology and Protocols
INN370	Software Development

IT89 - Graduate Certificate in IT (Wireless Games Technology)

Four (4) units to be selected from the following

INN272	Interaction Design
INN350	Internet Protocols and Services
INN353	Wireless and Mobile Networks

INN381	Modelling and Animation Techniques

IT90 Graduate Certificate in IT (Computer Networks)

4 Units to be completed

INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN353	Wireless and Mobile Networks
INN650	Advanced Network Management

IT92 Grad Cert in Information Technology (Information Security)

Four (4) units to be completed

INN690	Minor Project 1
INN255	Security
INN355	Cryptology and Protocols
INN652	Advanced Cryptology

IT93 - Graduate Certificate in IT (Enterprise Wide Software)

Four (4) units to be completed

INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN610	Case Studies in Enterprise Systems
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	
	IT Elective
INN696-2	

IT96 - Graduate Certificate in IT (Information Technology Management)

Four (4) units to be completed

INN221	Technology Management
INN322	Information Systems Consulting
INN330	Information Management
INN500	PRINCE2 (R) Project Management

IT98 - Graduate Certificate in IT (Multimedia)

Four (4) units to be selected from the following

INN271	The Web
INN272	Interaction Design
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems

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

Four (4) units to be completed

INN372	Agile Software Development
INN370	Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture

Potential Careers:

Business Analyst, Data Communications Specialist, Database Manager, Electronic Commerce Developer, Multimedia Designer, Network Administrator, Network Manager, Programmer, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer.

Graduate Diploma In Information Technology (IT37)

Year offered: 2010
Admissions: No
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (indicative): 2010: Full fee tuition $8,750 (indicative) per semester
International Fees (indicative): 2010: $12,250 (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:

Ernest Foo
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 - Graduate Diploma In Information Technology

Core	
INN500	IT Project Management

Major Study Areas	
	Students choose one of the following majors (see Major option list):
	No Major
	Software Architecture
	Network Management
	Enterprise Systems
	Games Production
	Games Design
	Security
	Executive Information Practice
	Library and Information Science
	Information Management
	Digital Environments

IT37 - Major Options

A Major block has 84 credit points plus a 48 credit point Elective block

Information Technology	
DO	*Any IT postgraduate units not in the "Basic Unit List", such that at least one unit is of the form: INN5xx, INN6xx or INN7xx and the total unit set equals 84 credit points

Software Architecture

DO	*All of these units:
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN374	Enterprise Software Architecture
INN570	Internationalisation of Software
PLUS	*Units to 36 credit points from:
INN700	Introduction To Research
INN271	The Web
INN313	Electronic Commerce Site Development
INN373	Web Application Development
INN365	Systems Programming
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3

Network Management

DO	*All of these units:
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN650	Advanced Network Management
PLUS	*Units to 36 credit points from:
INN700	Introduction To Research
INN353	Wireless and Mobile Networks
INN255	Security
INN651	Security Technologies
INN355	Cryptology and Protocols
INN652	Advanced Cryptology
INN550	Computer Forensics
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS453	CCNP 2: Building Multi Layered Switched Networks
INS454	CCNP3: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Enterprise Systems

DO	*All of these units:
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN374	Enterprise Software Architecture
INN610	Case Studies in Enterprise Systems
PLUS	*Units to 36 credit points from:
INN700	Introduction To Research
INN340	Database Design
INN342	Enterprise Data Mining and Data Analysis
INN341	Software Development With Oracle
INN321	Business Process Management
INN220	Business Analysis
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3

Games Production

DO	*All of these units:
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN600	Advanced Readings 1
INN601	Advanced Readings 2
PLUS	*Units to 36 credit points from:
INN220	Business Analysis
INN321	Business Process Management
INN330	Information Management
INN311	Enterprise Systems
INN700	Introduction To Research

Games Design

DO	*All of these units:
INN180	Computer Games Studies
INN280	Fundamentals of Game Design
INN281	Advanced Game Design
INN272	Interaction Design
PLUS	*Units to 36 credit points from:
INN181	Introduction to Games Production
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN700	Introduction To Research
KIB201	Concept Development for Game Design and Interactive Media

KIB202	Enabling Immersion

Security

DO	*All of these units:
INN255	Security
INN651	Security Technologies
PLUS	*Units to 60 credit points from:
INN700	Introduction To Research
INN355	Cryptology and Protocols
INN652	Advanced Cryptology
INN550	Computer Forensics
MGN524	Special Topic in Management 1
AYN410	Business Law and Ethics
MGN433	Managing High-Performance Organisations
MGN423	Contemporary Strategic Analysis
GSN440	Risk Management 1
JSN106	Analytical Methods of Intelligence
JSN114	Cybercrime
MAN778	Applications of Discrete Mathematics
LWN139	Privacy Law
LWN125	Electronic Commerce Law
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3

Library and Information Science

DO	Units to 84 credit points:
INN332	Information Retrieval
INN531	Information Services
INN533	Information Organisation
INN333	Information Programs
INN530	Web Content Reliability
INN532	Information Literacy Education
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN330	Information Management
INN331	Management Issues for Information Professionals

Information Management

DO	*All of these units:
INN330	Information Management
SPN637	Managing Knowledge in Learning Organisations
INN122	Organisational Databases
INN255	Security
INN335	Information Resources
INN220	Business Analysis
PLUS	*One of these units:
INN700	Introduction To Research
INN334	Information Issues and Values
INN540	User Experience

Executive Information Practice

DO	*All of these units:
INN630	Evidence Based Practice
INN631	Executive Coaching
INN690	Minor Project 1
INN334	Information Issues and Values
PLUS	*Six of these units:
GSN401	Managing in the Global Business Environment
GSN403	Understanding Data
GSN404	Financial Statements Analysis
GSN405	Strategic Management
GSN406	Human Resource Management Issues
GSN407	Business Communication
GSN408	Fundamentals of Marketing Management
GSN409	Organisational Behaviour 1
GSN410	Entrepreneurship
GSN412	Business Law 1
GSN413	Financial Management 1
GSN415	Understanding Leadership
GSN491	Economics in Business 1

Digital Environments

DO	*All of these units:
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN540	User Experience
INN690	Minor Project 1

KCP402	New Media Studies
PLUS	*IT postgraduate units to 12 credit points, not in the "Basic Unit List".

Basic Unit List

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web

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

Year offered: 2010
Admissions: No
CRICOS code: 018771J
Course duration (full-time): 2 semesters
Course duration (part-time): 4 semesters
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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: 2010
Admissions: No
Course duration (full-time): 3 semesters
Course duration (part-time): 6 semesters
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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	
INN280	Fundamentals of Game Design
INN281	Advanced Game Design

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
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 Enterprise Systems
INN386	Advanced Multimedia Systems
INN701	Advanced Research Topics
INN382	Real Time Rendering Techniques
INN652	Advanced Cryptology
INN570	Internationalisation of Software
INN650	Advanced Network Management
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN606	Advanced Research 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN607	Advanced Research 3

Project Units

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

Intermediate Level Units

With the approval of the Course Coordinator, students seeking skills in a new IT specialisation can select up to two (2) units from the following list of units.

INN271	The Web
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INN341	Software Development With Oracle
INN311	Enterprise Systems
INN340	Database Design
INN330	Information Management
INN335	Information Resources
INN372	Agile Software Development
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN255	Security
INN355	Cryptology and Protocols
INN370	Software Development

IT89 - Graduate Certificate in IT (Wireless Games Technology)

Four (4) units to be selected from the following

INN272	Interaction Design
INN350	Internet Protocols and Services
INN353	Wireless and Mobile Networks
INN381	Modelling and Animation Techniques

IT90 Graduate Certificate in IT (Computer Networks)

4 Units to be completed

INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN353	Wireless and Mobile Networks
INN650	Advanced Network Management

IT92 Grad Cert in Information Technology (Information Security)

Four (4) units to be completed

INN690	Minor Project 1
INN255	Security
INN355	Cryptology and Protocols
INN652	Advanced Cryptology

IT93 - Graduate Certificate in IT (Enterprise Wide

Software)

Four (4) units to be completed	
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN610	Case Studies in Enterprise Systems
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	
	IT Elective
INN696-2	

IT96 - Graduate Certificate in IT (Information Technology Management)

Four (4) units to be completed	
INN221	Technology Management
INN322	Information Systems Consulting
INN330	Information Management
INN500	PRINCE2 (R) Project Management

IT98 - Graduate Certificate in IT (Multimedia)

Four (4) units to be selected from the following	
INN271	The Web
INN272	Interaction Design
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems

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

Four (4) units to be completed	
INN372	Agile Software Development
INN370	Software Development
INN373	Web Application Development
INN374	Enterprise Software Architecture

Potential Careers:

Business Analyst, Data Communications Specialist, Database Manager, Electronic Commerce Developer, Internet Professional, Multimedia Designer, Network Administrator, Network Manager, Programmer, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer.

Master of Information Technology (IT43)

Year offered: 2010
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2010: Full fee tuition $8,250 (indicative) per semester
International Fees (indicative): 2010: $13,000 (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 Ernest Foo
Discipline coordinator: Dr Ernest Foo
Campus: Gardens Point

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, including details regarding the allocation of points, please see http://www.bus.qut.edu.au/courses/postgraduate/mba/.

IT44 major option

Core	
INN500	PRINCE2 (R) Project Management

Electives

*Any IT postgraduate units not in the "Basic Unit List", such that at least one unit is of the form: INN5XX, INN6XX or INN7SS and the total unit set equals 84 credit points

Plus

* any postgraduate units to 48 credit points

Advanced Research Units (Project Units)

Students of IT44 are required to complete 48 credit points of advanced research/project units in the form of a 48 credit point Dissertation or two 24 credit point Projects.

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631-1	Executive Coaching
INN631-2	Executive Coaching
INN631-3	Executive Coaching
INN631-4	Executive Coaching
INN631-5	Executive Coaching
INN631-6	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS452	CCNP1: Building Scalable Internetworks
INS451	CCNA 3 and 4 Lan Switching
INS454	CCNP3: Building Multi Layered Switched Networks
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Basic Unit List

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web

Master of Information Technology (IT43)

Year offered: 2010
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2010: Full fee tuition $8,250 (indicative) per semester
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 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 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 Brisbane Graduate School of Business (BGSB) must meet the MBA entry requirements. Please see the BGSB website http://www.bgsb.qut.edu.au/study/mba/mbacourses/ for further information.

The Library and Information Science major is offered in multimodal delivery allowing students to complete their studies either face to face or online.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information

Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

Special Entry Requirements

Library and Information Science:

- a bachelor degree in any discipline other than library and information science with a grade point average of at least 4.5 (On a 7 points scale).

Executive information practice:

- has core units from the MBA and as such must also meet the MBA entry requirements:
o Demonstrate competency in the English language
o Have a GMAT score of at least 500
o Have at least three years work experience
o At least 10 points from at least two of the three categories - prior work experience, academic achievement and management aptitude
o For further information, including details regarding the allocation of points, 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:

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

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, including details regarding the allocation of points, please see http://www.bus.qut.edu.au/courses/postgraduate/mba/.

Master of Information Technology (Games Production) (IT43)

Year offered: 2010
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2010: Full fee tuition $8,250 (indicative) per semester
International Fees (indicative): 2010: $13,000 (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 Ernest Foo
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:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
• Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points

Further Information

For further information about this course, please contact:

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

Course structure

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

Elective Units

Select any four Postgraduate units

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631-1	Executive Coaching
INN631-2	Executive Coaching
INN631-3	Executive Coaching
INN631-4	Executive Coaching
INN631-5	Executive Coaching

INN631-6	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS452	CCNP1: Building Scalable Internetworks
INS451	CCNA 3 and 4 Lan Switching
INS454	CCNP3: Building Multi Layered Switched Networks
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Master of Information Technology (Information Management) (IT43)

Year offered: 2010
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2010: Full fee tuition $8,250 (indicative) per semester
International Fees (indicative): 2010: $13,000 (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 Ernest Foo
Discipline coordinator: Dr Helen Partridge
Campus: Gardens Point

Overview

The Information Management major provides you with the skill and knowledge to find employment in the information and knowledge management industry. You will gain awareness of the activities in which information management professionals are engaged, in various organisational contexts. You will have the opportunity through electives to tailor your learning to specific contexts such as health services, educational settings, creative industries and information technology.

You will develop skill and knowledge in information management including the alignment of enterprise information and business planning, enterprise information policy, evaluation of information resources and systems, and the design, delivery and evaluation of information services to meet client or organisational needs.

Why study this Major?

Information is now viewed as one of the most significant assets in an organisation. The ability to obtain and manage information on an ongoing basis is an important component of competitive success. Internal and external information resources are used constantly in any organisation. Information managers help organisations to more effectively interact with and utilise information for business development and success. Information managers require the knowledge and expertise to design, plan, develop, manage and evaluate information services to meet the information needs of their organisation.

Career Progression

Careers include information broker, information manager, knowledge manager, database manager, webmaster, information architect, information coordinator, policy officer, research analyst, information services manager, document manager, metadata analyst, community information officer or learning resources officer.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
• Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an

approved 96 credit points

Further Information

For further information about this course, please contact:

Ernest Foo or Helen Partridge
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN122	Organisational Databases
INN220	Business Analysis
INN255	Security
INN330	Information Management
INN335	Information Resources

In addition, select 2 of the following units:	
INN334	Information Issues and Values
INN540	User Experience
INN700	Introduction To Research
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN701	Advanced Research Topics

Elective Units	
	Select any four Postgraduate Units

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Master of Information Technology (Library and Information Science) (IT43)

Year offered: 2010
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2010: Full fee tuition $8,250 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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 Ernest Foo
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 skill 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 thatn library and information science with a grade point average of at least 4.5 (on a 7 point scale)

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

Course completion rules

before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
• Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

Online delivery

The Library and Information Science major is offered in multimodal delivery allowing students to complete their studies either face to face or online.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points

Further Information

For further information about this course, please contact:

Ernest Foo or Helen Partridge
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management
	OR
INN690	Minor Project 1

Select all of the following units:	
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
	Please note: Students who begin a multi-component unit set (eg. INN632) must complete the entire set.

Elective Units	
	Select any two Postgraduate units

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques

INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Master of Information Technology (Network Management) (IT43)

Year offered: 2010
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2010: Full fee tuition $8,250 (indicative) per semester
International Fees (indicative): 2010: $13,000 (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 Ernest Foo
Campus: Gardens Point

Overview

The Network Management major provides the practical skills and the theory to make you a more effective network manager. It offers in-depth study of emerging network management issues such as security, network monitoring and high availability design.

You will gain up-to-date technical skills for the administration and management of computer networks using an environment that is currently used in industry, and also the theory and practical aspects of network administration and management. Network Management graduates are required to plan either new networks or the upgrading of existing networks. You will be exposed to methodologies and procedures that are useful in addressing the issues involved in network planning and management. Ensuring that the network is secure is a theme that is maintained throughout the course.

Why study this Major?

Computer networks are essential for the running of today's organisations. Employees spend an ever increasing amount of time remote from their individual workspace. This has led to organisations seeking to deploy appropriate networks that allow real-time access to the corporate network anywhere around the world. The scope of the field of data communications and networks is constantly changing. Voice and data networking technologies are converging to provide more advanced systems with additional functionality and efficiencies. To ensure the effective and efficient operation of computer networks, they need to be designed, deployed and administered by competent technical people, which is why the Faculty has a dedicated major in this field.

Career Progression

Careers include business analyst, systems analyst, systems manager, data communications specialist, network administrator, network manager or Internet professional.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
• Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points

Further Information

For further information about this course, please contact:

Ernest Foo Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN650	Advanced Network Management

In addition, select 3 of the following units:	
INN255	Security
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN550	Computer Forensics
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN651	Security Technologies
INN652	Advanced Cryptology
INN700	Introduction To Research
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS453	CCNP 2: Building Multi Layered Switched Networks
INS454	CCNP3: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks
INN701	Advanced Research Topics

Elective Units	
	Select any four Postgraduate Units

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems

INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Master of Information Technology (Security) (IT43)

Year offered: 2010
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2010: Full fee tuition $8,250 (indicative) per semester
International Fees (indicative): 2010: $13,000 (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 Ernest Foo
Campus: Gardens Point

Overview

This course offers advanced studies in information security, both in the business and technical sense. You are introduced to a range of information security issues and its broad context; the people, processes and technologies involved with interacting in this new online era. You will explore these topics through participation in the form of projects (research related and industry related) and practice in the community (small groups focusing on particular advanced topics). You will be exposed to the research and industry best-practice environment within QUT's Information Security Institute (ISI) through collaboration with its staff and students. Students will graduate with an understanding and appreciation of what it means to be a security professional in contemporary global environments.

Why study this Major?

IT systems are increasingly used to store, process and exchange information ranging from e-commerce applications to critical infrastructure such as utilities, financial institutions, transport and telecommunications networks. Security breaches are routinely reported in the mainstream media, making security assurance no longer a choice but a requirement. Associated with this increased awareness and organisational compliance requirement is a growth in demand for IT personnel with management expertise and technical skills in information security.

Career Progression

Careers include information security specialist, information consultant, information assurance professional, information manager and progression to research career in information security.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
• Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points

Further Information

For further information about this course, please contact:

Ernest Foo
Phone: +61 7 3138 2782

Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN255	Security
INN651	Security Technologies

In addition, select 5 of the following units:	
INN355	Cryptology and Protocols
INN550	Computer Forensics
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2
INN700	Introduction To Research
AYN410	Business Law and Ethics
GSN440	Risk Management 1
JSN106	Analytical Methods of Intelligence
JSN114	Cybercrime
LWN125	Electronic Commerce Law
LWN139	Privacy Law
MAN778	Applications of Discrete Mathematics
MGN423	Contemporary Strategic Analysis
MGN433	Managing High-Performance Organisations
MGN524	Special Topic in Management 1
INN701	Advanced Research Topics
	Students who begin a multi-component unit set (eg. INN694, INN696), must complete the entire set.

Elective Units	
	Select any four Postgraduate Units

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Master of Information Technology (Software Architecture) (IT43)

Year offered: 2010
Admissions: Yes
CRICOS code: 003776E
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2010: Full fee tuition $8,250 (indicative) per semester
International Fees (indicative): 2010: $13,000 (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 Ernest Foo
Campus: Gardens Point

Overview

This major will enhance your capabilities as a software developer. It will provide you with an understanding of the issues, structure and technologies used for developing software architectures. The course will provide you with the theoretical and practical skills needed to develop enterprise critical applications using state-of-the-art technologies. A comparative technology approach is taken, including an analysis of how software development technologies have evolved to date, in order to identify common themes and to better enable you to comprehend and critically evaluate future software technology offerings.

Why study this Major?

A software architect is responsible for the high-level design and structure of an IT system. The systems developed by a software architect form a key part of the critical infrastructure of an organisation and the architect must balance a wide range of issues such as response time, portability, scalability and availability, when designing solutions for a client. Consequently the software architect needs a thorough understanding of advanced software development techniques and technologies, and how to take advantage of modern development environments and languages.

Understanding how and why programming approaches enable greater efficiency and flexibility is essential for graduates working in the IT industry. There are a wide variety of technologies available for developing software applications and they are continuing to evolve at a rapid pace.

Career Progression

Careers include business analyst, electronic commerce developer, internet professional, multimedia designer, senior programmer, software engineer or systems programmer.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

• Evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Domestic students:
Domestic students who have completed an undergraduate degree (in any field) with a minimum grade point average (GPA) of at least 4.5 (on a 7-point scale) are eligible for the programs described in this proposal.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

International Students:
International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Applicants without an undergraduate degree in Information Technology (or equivalent) are recommended to select 3 Basic Elective Units as their electives. These electives are to be taken at the beginning of their studies.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters program:
• Students are required to complete 144 credit points of units.
• Students are required to complete the specified core unit.
• Students wishing to specialise must complete the specific unit requirements for a major.
• Students wishing to complete their postgraduate studies without a single area of specialisation must satisfy the unit requirements for graduation with no major.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points

Further Information

For further information about this course, please contact:

Ernest Foo
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN374	Enterprise Software Architecture
INN570	Internationalisation of Software

In addition, select 3 of the following units:	
INN271	The Web
INN313	Electronic Commerce Site Development
INN365	Systems Programming
INN370	Software Development
INN373	Web Application Development
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN700	Introduction To Research
INN701	Advanced Research Topics

Elective Units	
	Select any four Postgraduate Units

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology

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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Master of Information Technology (Advanced) (IT44)

Year offered: 2010
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $12,250 (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 Ernest Foo
Discipline coordinator: Dr Ernest Foo
Campus: Gardens Point

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, including details regarding the allocation of points, please see the table at: http://www.bgsb.qut.edu.au/study/future/entryreq.jsp

IT44 major option

Core	
INN500	PRINCE2 (R) Project Management

Electives

*Any IT postgraduate units not in the "Basic Unit List", such that at least one unit is of the form: INN5XX, INN6XX or INN7SS and the total unit set equals 84 credit points

Plus

* any postgraduate units to 48 credit points

Advanced Research Units (Project Units)

Students of IT44 are required to complete 48 credit points of advanced research/project units in the form of a 48 credit point Dissertation or two 24 credit point Projects.

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Basic Unit List

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web

Master of Information Technology (Advanced) (IT44)

Year offered: 2010
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $12,250 (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 Ernest Foo
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 Brisbane Graduate School of Business (BGSB) must meet the MBA entry requirements. Please see the BGSB website http://www.bgsb.qut.edu.au/study/mba/mbacourses/ for further information.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Special Entry Requirements

Library and Information Science Major:

A bachelor degree in any discipline other than library and information science with a grade point average of at least 4.5 (On a 7 points scale).

Executive information practice major - has core units from the MBA and as such must also meet the MBA entry requirements:

- Demonstrate competency in the English language
- Have a GMAT score of at least 500
- Have at least three years work experience
- At least 10 points from at least two of the three categories
- prior work experience, academic achievement and management aptitude
- For further information, including details regarding the allocation of points, please see the table at:

http://www.bgsb.qut.edu.au/study/future/entryreq.jsp

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:

Ernest Foo
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, including details regarding the allocation of points, please see the table at: http://www.bgsb.qut.edu.au/study/future/entryreq.jsp

Major Options

A Major block has 84 credit points plus a 48 credit point Elective block	

No Major	
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
ELECTIVES	*Any postgraduate units to 48 credit points

Software Architecture	
DO	*All of these units:
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN374	Enterprise Software Architecture
INN570	Internationalisation of Software
PLUS	*Units to 36 credit points from:
INN700	Introduction To Research
INN271	The Web
INN313	Electronic Commerce Site Development
INN373	Web Application Development
INN365	Systems Programming
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN701	Advanced Research Topics
ELECTIVES	*Any postgraduate units to 48 credit points

Enterprise Systems

DO	*Three of these units:
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
	In addition, choose between the following:
INN690	Minor Project 1
	OR
INN610	Case Studies in Enterprise Systems
	OR
	Any Advanced Reading Enterprise System unit
PLUS	*Units to 36 credit points from:
INN700	Introduction To Research
INN340	Database Design
INN342	Enterprise Data Mining and Data Analysis
INN341	Software Development With Oracle
INN321	Business Process Management
INN220	Business Analysis
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN701	Advanced Research Topics
INN607	Advanced Research 3
ELECTIVES	*Any postgraduate units to 48 credit points

Network Management

DO	*All of these units:
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN650	Advanced Network Management
PLUS	*Three of these units:
INN700	Introduction To Research
INN353	Wireless and Mobile Networks
INN255	Security
INN651	Security Technologies
INN355	Cryptology and Protocols
INN652	Advanced Cryptology
INN550	Computer Forensics
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS453	CCNP 2: Building Multi Layered Switched Networks
INS454	CCNP3: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks
INN701	Advanced Research Topics
ELECTIVES	*Any postgraduate units to 48 credit points

Games Production

DO	*All of these units:
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN600	Advanced Readings 1
INN601	Advanced Readings 2
PLUS	*Units to 36 credit points from:
INN220	Business Analysis
INN321	Business Process Management
INN330	Information Management
INN311	Enterprise Systems
INN700	Introduction To Research
INN701	Advanced Research Topics
ELECTIVES	Projects to 48 credit points
OR	Do units to 48 credit points from:
GSN401	Managing in the Global Business Environment
GSN405	Strategic Management
GSN403	Understanding Data
GSN413	Financial Management 1
GSN404	Financial Statements Analysis
GSN416	Business Plans 1
GSN406	Human Resource Management Issues
GSN407	Business Communication
GSN409	Organisational Behaviour 1
GSN408	Fundamentals of Marketing Management
GSN415	Understanding Leadership
GSN410	Entrepreneurship

Games Design

DO	*All of these units:
INN180	Computer Games Studies
INN280	Fundamentals of Game Design
INN281	Advanced Game Design
INN272	Interaction Design
PLUS	*Three units from the following list:
INN181	Introduction to Games Production
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems

INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN700	Introduction To Research
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
MAN281	Mathematics for Computer Graphics
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN383	AI for Games
INN701	Advanced Research Topics
ELECTIVES	*Any postgraduate units to 48 credit points

Security

DO	*All of these units:
INN255	Security
INN651	Security Technologies
PLUS	*Units to 60 credit points from:
INN700	Introduction To Research
INN355	Cryptology and Protocols
INN652	Advanced Cryptology
INN550	Computer Forensics
MGN524	Special Topic in Management 1
AYN410	Business Law and Ethics
MGN433	Managing High-Performance Organisations
MGN423	Contemporary Strategic Analysis
GSN440	Risk Management 1
JSN106	Analytical Methods of Intelligence
JSN114	Cybercrime
MAN778	Applications of Discrete Mathematics
LWN139	Privacy Law
LWN125	Electronic Commerce Law
INN690	Minor Project 1
INN691	Minor Project 2
INN692	Minor Project 3
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN701	Advanced Research Topics
ELECTIVES	*Any postgraduate units to 48 credit points

Library and Information Science

DO	*All of these units:
INN332	Information Retrieval
INN531	Information Services
INN533	Information Organisation
INN333	Information Programs
INN530	Web Content Reliability
INN532	Information Literacy Education
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
INN330	Information Management
INN331	Management Issues for Information Professionals
PLUS	*Two of these units:
INN701	Advanced Research Topics
INN271	The Web
INN700	Introduction To Research
INN342	Enterprise Data Mining and Data Analysis
INN690	Minor Project 1
INN334	Information Issues and Values
INN540	User Experience
INN347	Web 2.0 Applications
INN345	Mobile Devices
INN346	Enterprise 2.0
INN500	PRINCE2 (R) Project Management
INN600	Advanced Readings 1
INN605	Advanced Research 1
CLN601	Cyberlearning
CLN603	Designing Spaces for Learning
CLN647	Youth, Popular Culture, and Texts
CLN650	Information-Learning Nexus
EDN611	Professional Applications of Research
KCP402	New Media Studies
MDN642	Digital Pedagogies
SPN624	

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)

Information Management

DO	*All of these units:
INN330	Information Management
INN122	Organisational Databases
INN255	Security
INN335	Information Resources
INN220	Business Analysis
PLUS	*Two of these units:
INN334	Information Issues and Values
INN540	User Experience
INN700	Introduction To Research
INN701	Advanced Research Topics
ELECTIVES	*Any postgraduate units to 48 credit points

Executive Information Practice

DO	*All of these units:
INN630	Evidence Based Practice
INN631-1	Executive Coaching
INN631-2	Executive Coaching
INN631-3	Executive Coaching
INN631-4	Executive Coaching
INN631-5	Executive Coaching
INN631-6	Executive Coaching
PLUS	IT Postgraduate units to 24 credit points, not in the "Basic Unit list"
PLUS	*Six of these units:
GSN401	Managing in the Global Business Environment
GSN403	Understanding Data
GSN404	Financial Statements Analysis
GSN405	Strategic Management
GSN406	Human Resource Management Issues
GSN407	Business Communication
GSN408	Fundamentals of Marketing Management
GSN409	Organisational Behaviour 1
GSN410	Entrepreneurship
GSN412	Business Law 1
GSN413	Financial Management 1
GSN415	Understanding Leadership
GSN491	Economics in Business 1
ELECTIVES	*Any postgraduate units to 48 credit points

Special Entry Requirements:

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, including details regarding the allocation of points, please see the table at: http://www.bgsb.qut.edu.au/study/future/entryreq.jsp

Digital Environments

DO	*All of these units:
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN540	User Experience
INN690	Minor Project 1
PLUS	*IT postgraduate units to 12 credit points, not in the "Basic Unit List"
KCP402	New Media Studies
ELECTIVES	*Any postgraduate units to 48 credit points

Basic Unit List

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web

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 2
INN695	Major Project

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

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631-1	Executive Coaching
INN631-2	Executive Coaching
INN631-3	Executive Coaching
INN631-4	Executive Coaching
INN631-5	Executive Coaching
INN631-6	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS452	CCNP1: Building Scalable Internetworks
INS451	CCNA 3 and 4 Lan Switching
INS454	CCNP3: Building Multi Layered Switched Networks
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

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

Year offered: 2010
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $12,250 (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 Ernest Foo
Discipline coordinator: Dr Jason Watson
Campus: Gardens Point

Overview

Web technologies and applications are reshaping contemporary organisations. This major allows you to study how developments in IT shape society through applications like FaceBook, MySpace, Second Life, Smart Phones, iPods and gaming devices.

This major has been designed to meet the needs of professionals and organisations seeking to harness the benefits of social computing to advance business goals. Students will explore the ways in which IT has altered the production of knowledge, community building collaboration and the design and delivery of organisational activities and services. This major is aimed at professionals and organisations seeking to be not just IT-savvy users but leaders and innovators.

Why study this Major?

Increasingly, web 2.0 technologies such as wikis, blogs and social networks are being used within organisations. A future trend will see successful contemporary professionals and organisations requiring expertise in not just business and management practice but in the critical design, use and consequences of new and emerging social technologies. The Digital Environments major represents a new and emerging field for the IT discipline. It symbolises the growing interlink between IT, business and society.

Career Progression

Graduates from the Digital Environments major will find positions in a broad range of industries and will be well placed to contribute to organisational success. Some key positions include online community manager, social network analyst, community organiser, e-marketer, web analyst, systems administrator, IT project manager, application developer, web developer, communications and marketing manager, IT manager, web manager, knowledge manager, IT analyst, technology officer, technology consultant.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Course completion rules

Course completion rules
Students should meet the following requirements before they are able to complete the Masters Advanced program:
• Students are required to complete 192 credit points of units.
• Students are required to complete the specified core unit.
• Students seeking a single area of specialisation must complete the specific unit requirements for a major.
• Students not seeking a single area of specialisation may graduate with no major.
• Students must complete 48 credit points of project or advanced research units.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Ernest Foo or Jason Watson
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management

Select all of the following units:

INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN540	User Experience
INN690	Minor Project 1
KCP402	New Media Studies

In addition, select any (total of 12 cp) postgraduate IT units (INN code) not in the Basic Unit List.

Elective Units

Select any four Postgraduate units

Advanced Reach Units (Project units)

Students of IT44 are required to complete 48cp of advanced research/project units in the forms of a 48cp Dissertation or two 24cp Projects.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

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

Year offered: 2010
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $12,250 (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 Ernest Foo
Campus: Gardens Point

Overview

Enterprise systems are engineered information systems that consist of applications and associated information, forming the fundamental structure of organisational processes in most large organisations. Enterprise systems provide comprehensive administrative systems and help to automate and streamline business processes.

The major provides you with advanced knowledge that will enable you to specialise in the area of business operations such as logistics and finance. You will build an understanding of enterprise system processes and configuration activities which occur in companies using enterprise systems. You will understand the business activities that these systems support, preparing you for business, technical or system support roles. The course provides you with hands-on experience with successful enterprise systems so that you can put into practice the theory that supports business activities.

This course also seeks to develop logical thinking and the capability to understand and deal with complex systems, within a business management framework.

Why study this Major?

Enterprise systems have been widely implemented worldwide, particularly in larger organisations. The enterprise system market exceeds US$78 billion and it has been one of the largest, fastest growing application software industries in the world. Organisations invest substantial resources in acquiring enterprise systems from vendors such as SAP, Mincom and Oracle, and expect positive impacts on their business operations. Thus, there is a need for graduates with strong knowledge of enterprise systems software and effective management of its implementation.

Career Progression

Careers include business analyst, systems analyst, systems manager or database manager.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters Advanced program:
• Students are required to complete 192 credit points of units.
• Students are required to complete the specified core unit.
• Students seeking a single area of specialisation must complete the specific unit requirements for a major.
• Students not seeking a single area of specialisation may graduate with no major.
• Students must complete 48 credit points of project or advanced research units.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information on this course please contact the course coordinator Dr Ernest Foo on 3138 2782 or email enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management

Select Three Units from:	
INN311	Enterprise Systems
INN312	Enterprise Systems Applications

In addition, choose between the following:

INN610	Case Studies in Enterprise Systems
	OR
INN690	Minor Project 1
	OR
	Advanced Reading Enterprise System unit

In addition, select four of the following units:

INN220	Business Analysis
INN320	Business Process Modelling
INN321	Business Process Management
INN340	Database Design
INN341	Software Development With Oracle
INN342	Enterprise Data Mining and Data Analysis
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN700	Introduction To Research
INN610	Case Studies in Enterprise Systems
INN374	Enterprise Software Architecture
INN701	Advanced Research Topics
INN343	Advanced Data Mining and Data Warehousing
INN320	Business Process Modelling

Elective Units

Select any four Postgraduate Units

Advanced Research Units (Project Units)

Students of IT44 are required to complete 48cp of advanced research/project units in the forms of a 48cp Dissertation or two 24cp Projects.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology

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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

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

Year offered: 2010
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $12,250 (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 Ernest Foo
Campus: Gardens Point

Overview

This major is where the MBA meets IT: Master of Business Administration units are incorporated into this course. It is the first Australian qualification designed to meet the needs of mid career information and IT professionals who are seeking to advance their career opportunities. Very few qualifications provide the opportunity for mid-career professionals to further develop and refine their information and IT skills and knowledge while also having the opportunity to acquire a working knowledge of management practice.

Core units are offered by the areas of IT and business. You are able to study units in marketing, international business, accounting, public administration and evidence-based practice along with information security, systems and network, information management, interaction design, data mining and library and information science.

Those interested in pursuing a Master of Business Administration at QUT are eligible for advanced standing towards the qualification, making it an excellent pathway to QUT's Master of Business Administration (MBA).

Why study this Major?

Australia needs information and IT leaders who will help shape the future of our nation's information-rich and technology-driven economy.

Graduates of this course will possess a comprehensive working knowledge of contemporary management issues, advanced-level information and IT skills and the communication and leadership abilities essential for the executive or management role.

Career Progression

Graduates of Executive Information Practice will take on key positions in middle and high level management in a broad range of industries. While the career outcomes from the major are limited only by the drive and imagination of the graduates, key positions could include chief information officer, IT program manager, library director, cultural services manager or senior librarian.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Special entry requirements

Executive information practice major - has core units from the MBA and as such must also meet the MBA entry requirements:

- Demonstrate competency in the English language
- Have a GMAT score of at least 500
- Have at least three years work experience
- At least 10 points from at least two of the three categories
- prior work experience, academic achievement and management aptitude
- For further information, including details regarding the allocation of points, please see the table at: http://www.bgsb.qut.edu.au/study/future/entryreq.jsp

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:

Ernest Foo
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN630	Evidence Based Practice
INN631	Executive Coaching
	In addition, select any postgraduate (24 credit point) IT units (INN code) not in the Basic Unit List

In addition, select 6 (total of 36cps) of the following units:	
INN700	Introduction To Research
GSN401	Managing in the Global Business Environment
GSN403	Understanding Data
GSN404	Financial Statements Analysis
GSN405	Strategic Management
GSN406	Human Resource Management Issues
GSN407	Business Communication
GSN408	Fundamentals of Marketing Management
GSN409	Organisational Behaviour 1
GSN410	Entrepreneurship
GSN412	Business Law 1
GSN413	Financial Management 1
GSN415	Understanding Leadership
GSN491	Economics in Business 1

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience

INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Basic Unit List

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web

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

Year offered: 2010
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $12,250 (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 Ernest Foo
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:

Ernest Foo
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN180	Computer Games Studies
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN281	Advanced Game Design

In addition, select 3 of the following units:

INN181	Introduction to Games Production
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN700	Introduction To Research
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN383	AI for Games
MAN281	Mathematics for Computer Graphics
INN701	Advanced Research Topics

Elective Units

Select any four Postgraduate Units

Advanced Research Units (Project Units)

Students of IT44 are required to complete 48cp of advanced research/project units in the forms of a 48cp Dissertation or two 24cp Projects.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice

INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

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

Year offered: 2010
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $12,250 (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 Ernest Foo
Campus: Gardens Point

Overview

This course focuses on developing managerial skills required to produce games; that is, the management of a team and the production of an interactive project. You will establish an understanding of the production process and the skills relating to the management of a team of people in a creative environment. You will also have the opportunity to gain hands-on experience in this endeavour through the supervision of undergraduate final-year project teams from project inception to completion.

Why study this Major?

As the video games and related industries develop, so does the need for people within those industries, to enhance their skills beyond the technical to production and management. The Games Production stream has been developed to meet the skill sets required at higher management levels. It allows current industry members to take those skills that they have already acquired and extend them to support career development.

Career Progression

Games production is an exciting multibillion dollar emerging industry. Careers include game/simulation developer or game/simulation producer. If you already work in the games or related industries, you could progress your career to management or executive-level positions.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters Advanced program:
• Students are required to complete 192 credit points of units.
• Students are required to complete the specified core unit.
• Students seeking a single area of specialisation must complete the specific unit requirements for a major.
• Students not seeking a single area of specialisation may graduate with no major.
• Students must complete 48 credit points of project or advanced research units.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Ernest Foo
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN600	Advanced Readings 1
INN601	Advanced Readings 2

In addition, select 3 of the following units:	
INN220	Business Analysis
INN311	Enterprise Systems
INN321	Business Process Management
INN330	Information Management
INN700	Introduction To Research

INN701	Advanced Research Topics

Elective Units

Select any four Postgraduate Units

Advanced Research Units (Project Units)

Students of IT44 are required to complete 48cp of advanced research/project units in the forms of a 48cp Dissertation or two 24cp Projects.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

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

Year offered: 2010
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $12,250 (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 Ernest Foo
Campus: Gardens Point

Overview

The Information Management major provides you with the skill and knowledge to find employment in the information and knowledge management industry. You will gain awareness of the activities in which information management professionals are engaged, in various organisational contexts. You will have the opportunity through electives to tailor your learning to specific contexts such as health services, educational settings, creative industries and information technology.

You will develop skill and knowledge in information management including the alignment of enterprise information and business planning, enterprise information policy, evaluation of information resources and systems, and the design, delivery and evaluation of information services to meet client or organisational needs.

Why study this Major?

Information is now viewed as one of the most significant assets in an organisation. The ability to obtain and manage information on an ongoing basis is an important component of competitive success. Internal and external information resources are used constantly in any organisation. Information managers help organisations to more effectively interact with and utilise information for business development and success. Information managers require the knowledge and expertise to design, plan, develop, manage and evaluate information services to meet the information needs of their organisation.

Career Progression

Careers include information broker, information manager, knowledge manager, database manager, webmaster, information architect, information coordinator, policy officer, research analyst, information services manager, document manager, metadata analyst, community information officer or learning resources officer.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters Advanced program:
• Students are required to complete 192 credit points of units.
• Students are required to complete the specified core unit.
• Students seeking a single area of specialisation must complete the specific unit requirements for a major.
• Students not seeking a single area of specialisation may graduate with no major.
• Students must complete 48 credit points of project or advanced research units.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Ernest Foo
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN122	Organisational Databases

INN220	Business Analysis
INN255	Security
INN330	Information Management
INN335	Information Resources

In addition, select 2 of the following units:

INN334	Information Issues and Values
INN540	User Experience
INN700	Introduction To Research
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN701	Advanced Research Topics

Elective Units

Select any four Postgraduate Units

Advanced Research Units (Project Units)

Students of IT44 are required to complete 48cp of advanced research/project units in the forms of a 48cp Dissertation or two 24cp Projects.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems

INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

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

Year offered: 2010
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $12,250 (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 Ernest Foo
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 skill 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:

Ernest Foo or Helen Partridge
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management
	OR
INN690	Minor Project 1

Select all of the following units:	
INN330	Information Management
INN331	Management Issues for Information Professionals
INN332	Information Retrieval
INN333	Information Programs
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-5	Professional Practice
INN632-6	Professional Practice
	Students who begin a multi-component unit set (eg. INN632), must complete the entire set.

Elective Units	
	Select any two Postgraduate units

Advanced Research Units (Project units)	
	Students of IT44 are required to complete 48cp of advanced research/project units in the forms of a 48cp Dissertation or two 24cp Projects.

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

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

Year offered: 2010
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $12,250 (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 Ernest Foo
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:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters Advanced program:
• Students are required to complete 192 credit points of units.
• Students are required to complete the specified core unit.
• Students seeking a single area of specialisation must complete the specific unit requirements for a major.
• Students not seeking a single area of specialisation may graduate with no major.
• Students must complete 48 credit points of project or advanced research units.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Ernest Foo
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN350	Internet Protocols and Services

INN351	Unix Network Administration
INN352	Network Planning
INN650	Advanced Network Management

In addition, select 3 of the following units:

INN255	Security
INN353	Wireless and Mobile Networks
INN355	Cryptology and Protocols
INN550	Computer Forensics
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN651	Security Technologies
INN652	Advanced Cryptology
INN700	Introduction To Research
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INS452	CCNP1: Building Scalable Internetworks
INS454	CCNP3: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks
INN701	Advanced Research Topics

Elective Units

Select any four Postgraduate Units

Advanced Research Units (Project Units)

Students of IT44 are required to complete 48cp of advanced research/project units in the forms of a 48cp Dissertation or two 24cp Projects.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

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

Year offered: 2010
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $12,250 (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 Ernest Foo
Campus: Gardens Point

Overview

This course offers advanced studies in information security, both in the business and technical sense. You are introduced to a range of information security issues and its broad context; the people, processes and technologies involved with interacting in this new online era. You will explore these topics through participation in the form of projects (research related and industry related) and practice in the community (small groups focusing on particular advanced topics). You will be exposed to the research and industry best-practice environment within QUT's Information Security Institute (ISI) through collaboration with its staff and students. Students will graduate with an understanding and appreciation of what it means to be a security professional in contemporary global environments.

Why study this Major?

IT systems are increasingly used to store, process and exchange information ranging from e-commerce applications to critical infrastructure such as utilities, financial institutions, transport and telecommunications networks. Security breaches are routinely reported in the mainstream media, making security assurance no longer a choice but a requirement. Associated with this increased awareness and organisational compliance requirement is a growth in demand for IT personnel with management expertise and technical skills in information security.

Career Progression

Careers include information security specialist, information consultant, information assurance professional, information manager and progression to research career in information security.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters Advanced program:
• Students are required to complete 192 credit points of units.
• Students are required to complete the specified core unit.
• Students seeking a single area of specialisation must complete the specific unit requirements for a major.
• Students not seeking a single area of specialisation may graduate with no major.
• Students must complete 48 credit points of project or advanced research units.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Ernest Foo
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN255	Security
INN651	Security Technologies

In addition, select 5 of the following units:	
INN355	Cryptology and Protocols
INN550	Computer Forensics
INN600	Advanced Readings 1

INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN652	Advanced Cryptology
INN690	Minor Project 1
INN691	Minor Project 2
INN693	Project
INN694-1	Project 1
INN694-2	Project
INN695	Major Project
INN696-1	Major Project 1
INN696-2	Major Project 2
INN700	Introduction To Research
AYN410	Business Law and Ethics
GSN440	Risk Management 1
JSN106	Analytical Methods of Intelligence
JSN114	Cybercrime
LWN125	Electronic Commerce Law
LWN139	Privacy Law
MAN778	Applications of Discrete Mathematics
MGN423	Contemporary Strategic Analysis
MGN433	Managing High-Performance Organisations
MGN524	Special Topic in Management 1
INN701	Advanced Research Topics
	Students who begin a multi-component unit set (eg. INN694 or INN696) must complete the entire set.

Elective Units

Select any four Postgraduate Units

Advanced Research Units (Project Units)

Students of IT44 are required to complete 48cp of advanced research/project units in the forms of a 48cp Dissertation or two 24cp Projects.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation

INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

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

Year offered: 2010
Admissions: Yes
CRICOS code: 053123F
Course duration (full-time): 2 years
Course duration (part-time): 4 years
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $12,250 (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 Ernest Foo
Campus: Gardens Point

Overview

This major will enhance your capabilities as a software developer. It will provide you with an understanding of the issues, structure and technologies used for developing software architectures. The course will provide you with the theoretical and practical skills needed to develop enterprise critical applications using state-of-the-art technologies. A comparative technology approach is taken, including an analysis of how software development technologies have evolved to date, in order to identify common themes and to better enable you to comprehend and critically evaluate future software technology offerings.

Why study this Major?

A software architect is responsible for the high-level design and structure of an IT system. The systems developed by a software architect form a key part of the critical infrastructure of an organisation and the architect must balance a wide range of issues such as response time, portability, scalability and availability, when designing solutions for a client. Consequently the software architect needs a thorough understanding of advanced software development techniques and technologies, and how to take advantage of modern development environments and languages.

Understanding how and why programming approaches enable greater efficiency and flexibility is essential for graduates working in the IT industry. There are a wide variety of technologies available for developing software applications and they are continuing to evolve at a rapid pace.

Career Progression

Careers include business analyst, electronic commerce developer, internet professional, multimedia designer, senior programmer, software engineer or systems programmer.

Entry requirements

To be eligible for this Masters Coursework program, students must meet one of the following criteria:

• the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)
OR
• evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

International students must complete the above requirements and also achieve an IELTS overall band score of 6.5 or more with no sub-band below 6.0.

International students with an IELTS overall band score between 6.0 and 6.5 with no sub-band below 5.0 are permitted to complete communication units offered by QUT International College as elective units within their Masters degree. These units must be successfully completed in the first semester of the Masters program.

Course completion rules

Students should meet the following requirements before they are able to complete the Masters Advanced program:
• Students are required to complete 192 credit points of units.
• Students are required to complete the specified core unit.
• Students seeking a single area of specialisation must complete the specific unit requirements for a major.
• Students not seeking a single area of specialisation may graduate with no major.
• Students must complete 48 credit points of project or advanced research units.
• Students may be allowed to take up to four units of electives. These units may be selected from postgraduate units outside of the Faculty of Science and Technology.

Early exit options

Students enrolled in this course may be eligible to exit their courses with a Graduate Certificate (IT85), after successful completion of an approved 48 credit points, or with a Graduate Diploma (IT37), after successful completion of an approved 96 credit points, or with a Masters (IT43) after successful completion of an approved 144 credit points.

Further Information

For further information about this course, please contact:

Ernest Foo
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

Core	
INN500	PRINCE2 (R) Project Management

All of the following units:	
INN371	Data Structures and Algorithms

INN372	Agile Software Development
INN374	Enterprise Software Architecture
INN570	Internationalisation of Software

In addition, select 3 of the following units:

INN271	The Web
INN313	Electronic Commerce Site Development
INN365	Systems Programming
INN370	Software Development
INN373	Web Application Development
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3
INN700	Introduction To Research
INN701	Advanced Research Topics

Elective Units

Select any four Postgraduate Units

Advanced Research Units (Project Units)

Students of IT44 are required to complete 48cp of advanced research/project units in the forms of a 48cp Dissertation or two 24cp Projects.

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Master of Information Technology (Non-IT Graduates) (IT45)

Year offered: 2010
Admissions: No
Course duration (full-time): 3 semesters
Course duration (part-time): 6 semesters
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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: 2010
Admissions: No
Course duration (full-time): 2 years (4 semesters)
Course duration (part-time): 4 years (8 semesters)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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	
INN280	Fundamentals of Game Design
INN281	Advanced Game Design
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
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 Enterprise Systems
INN386	Advanced Multimedia Systems
INN701	Advanced Research Topics
INN382	Real Time Rendering Techniques
INN652	Advanced Cryptology
INN570	Internationalisation of Software
INN650	Advanced Network Management
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN606	Advanced Research 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN607	Advanced Research 3

Project Units	
INN690	Minor Project 1
INN691	Minor Project 2
INN693	Project
INN695	Major Project
INN692	Minor Project 3
INN696-1	Major Project - Part One
INN696-2	Major Project - Part Two
INN694-1	Project 1 - Part One
INN694-2	Project 1 - Part Two

Intermediate Level Units	
	With the approval of the Course Coordinator, students seeking skills in a new IT specialisation can select up to two (2) units from the following list of units.
INN271	The Web

INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS451	CCNA 3 and 4 Lan Switching
INN341	Software Development With Oracle
INN311	Enterprise Systems
INN340	Database Design
INN330	Information Management
INN335	Information Resources
INN372	Agile Software Development
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN255	Security
INN355	Cryptology and Protocols
INN370	Software Development

Master of Business Process Management (IT53)

Year offered: 2010
Admissions: Yes
CRICOS code: 062622A
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (indicative): 2010: Full fee tuition $7,750 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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 Taizan Chan
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 Taizan Chan
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Master of Business Process Management

Non-IT graduates Basic Units 4 only	
INN120	Corporate Systems
INN101	Impact of IT
INN122	Organisational Databases
INN500	PRINCE2 (R) Project Management
INN124	Information Systems Development
INN220	Business Analysis
INN221	Technology Management

IT graduates Gateway Units 4 only	
INN700	Introduction To Research
INN311	Enterprise Systems
INN340	Database Design
INN312	Enterprise Systems Applications
INN221	Technology Management
INN322	Information Systems Consulting
INN330	Information Management
INN500	PRINCE2 (R) Project Management

Block B Core Units 4 Minimum	
INN323	Smart Services
INN610	Case Studies in Enterprise Systems
INN331	Management Issues for Information Professionals
INN321	Business Process Management
INN320	Business Process Modelling
INN690	Minor Project 1

Block C Elective Units 24cp Minimum	
	12 cp FIT industry or research project
	24 cp FIT industry or research project
	48 cp FIT industry or research project
	12 cp QUT post-graduate elective units

Grad Cert Business Process Management IT61 exit point only	
INN311	Enterprise Systems
INN610	Case Studies in Enterprise Systems
INN321	Business Process Management
INN320	Business Process Modelling

Grad Cert Corporate Systems Management IT62 exit point only

INN331	Management Issues for Information Professionals
INN690	Minor Project 1
AND	Students must choose 2 of the following units:
INN120	Corporate Systems
INN101	Impact of IT
INN122	Organisational Databases
INN500	PRINCE2 (R) Project Management
INN124	Information Systems Development
INN220	Business Analysis
INN221	Technology Management

Master of Business Process Management (2009)

IT graduates Gateway Units 4 only

INN700	Introduction To Research
INN311	Enterprise Systems
INN340	Database Design
INN312	Enterprise Systems Applications
INN221	Technology Management
INN322	Information Systems Consulting
INN330	Information Management
INN500	IT Project Management

Non-IT graduates Basic Units 4 only

INN120	Corporate Systems
INN101	Impact of IT
INN122	Organisational Databases
INN123	Project Management Practice
INN124	Information Systems Development
INN220	Business Analysis
INN221	Technology Management

Block B Core Units 4 Minimum

INN323	Smart Services
INN610	Case Studies in Enterprise Systems
INN331	Management Issues for Information Professionals
INN321	Business Process Management
INN320	Business Process Modelling
	Project Unit (Unit code yet to be finalised)

Block C Elective Units 24cp Minimum

	12 cp FIT industry or research project
	24 cp FIT industry or research project
	48 cp FIT industry or research project
	12 cp QUT post-graduate elective units

Grad Cert Business Process Management IT61 exit point only

INN311	Enterprise Systems
INN610	Case Studies in Enterprise Systems
INN321	Business Process Management
INN320	Business Process Modelling

Grad Cert Corporate Systems Management IT62 exit point only

INN331	Management Issues for Information Professionals
	Project Unit (Unit code yet to be finalised)
AND	Students must choose 2 of the following units:
INN120	Corporate Systems
INN101	Impact of IT
INN122	Organisational Databases
INN123	Project Management Practice
INN124	Information Systems Development
INN220	Business Analysis
INN221	Technology Management

Master of Business Process Management

IT graduates Gateway Units 4 only

ITN100	Introduction to Research
ITN228	Enterprise Systems
ITN229	Database Design
ITN233	Enterprise Systems Applications
ITN241	Information Technology Management
ITN264	Information Systems Consulting
ITN266	Information Management
ITN272	Information Technology Project Management

Non-IT graduates Basic Units 4 only

ITN360	Corporate Systems
ITN361	Socio Technical Systems
ITN362	Organisational Databases
ITN363	Project Management Practice
ITN364	Information Systems Development
ITN365	Business Analysis
ITN366	Information Systems Operations

Block B Core Units 4 Minimum

ITN201	Enterprise Architectures
ITN253	Case Studies In Enterprise Systems
ITN274	Management Issues for Info Professionals
ITN298	Business Process Management
ITN301	Business Process Modelling
ITN370	Corporate Systems Project

Block C Elective Units 24cp Minimum

	12 cp FIT industry or research project
	24 cp FIT industry or research project
	48 cp FIT industry or research project

12 cp QUT post-graduate elective units

Grad Cert Business Process Management IT61 exit point only	
ITN201	Enterprise Architectures
ITN253	Case Studies In Enterprise Systems
ITN298	Business Process Management
ITN301	Business Process Modelling

Grad Cert Corporate Systems Management IT62 exit point only	
ITN274	Management Issues for Info Professionals
ITN370	Project
	Students must choose 2 of the following units
ITN360	Corporate Systems
ITN361	Socio Technical Systems
ITN362	Organisational Databases
ITN363	Project Management Practice
ITN364	Information Systems Development
ITN365	Business Analysis
ITN366	Information Systems Operations

Master of Business Process Management

Non-IT gradutaes basic units 4 only	
ITN360	Corporate Systems
ITN361	
ITN362	
ITN363	Project Management Practice
ITN364	
ITN365	
ITN366	

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631-1	Executive Coaching
INN631-2	Executive Coaching
INN631-3	Executive Coaching
INN631-4	Executive Coaching
INN631-5	Executive Coaching
INN631-6	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS452	CCNP1: Building Scalable Internetworks
INS451	CCNA 3 and 4 Lan Switching
INS454	CCNP3: Building Multi Layered Switched Networks
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Master of Information Technology (Research) (IT60)

Year offered: 2010
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 - 2010: $11,750 per semester (indicative)
International Fees (indicative): 2010: $12,000 (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

Applicants must have:
• an approved degree in information technology from a recognised tertiary institution or an equivalent qualification, with a grade point average of 5 (on a 7-point scale) **OR**
• an approved degree from a recognised tertiary institution plus evidence of professional experience and skills to satisfy the academic board that the applicant possesses the capacity to pursue the course of study. The evidence should include details of any project or research activities undertaken.

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: 2010
Admissions: No
Course duration (full-time): 3 semesters
Course duration (part-time): 6 semesters
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $10,750 (indicative) per semester
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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

Course Structure 2009	
	From semester one, 2009 this course will not be available for commencing students. IT70 will only be available for continuing students. New students - please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Year 1, Semester 1	
INN331	Management Issues for Information Professionals
INN333	Information Programs
INN335	Information Resources
INN632-1	Professional Practice
INN632-2	Professional Practice

Year 1, Semester 2	
INN533	Information Organisation
INN531	Information Services
INN330	Information Management
INN632-3	Professional Practice
INN632-4	Professional Practice

Year 2, Semester 1	
INN530	Web Content Reliability
INN532	Information Literacy Education
INN500	PRINCE2 (R) Project Management
INN632-5	Professional Practice
INN632-6	Professional Practice

IT70 - Master of Information Management - Part-time

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 fit.enquiry@qut.edu.au for any enquiries.

Year 1, Semester 1	
INN335	Information Resources
INN122	Organisational Databases
INN632-1	Professional Practice

Year 1, Semester 2

INN330	Information Management
INN533	Information Organisation
INN632-2	Professional Practice

Year 2, Semester 1

INN331	Management Issues for Information Professionals
INN333	Information Programs
INN632-3	Professional Practice

Year 2, Semester 2

INN531	Information Services
	Elective
INN632-4	Professional Practice

Year 3, Semester 1

INN530	Web Content Reliability
INN532	Information Literacy Education
INN632-5	Professional Practice

Year 3, Semester 2

INN690	Minor Project 1
	Students who choose to undertake ITS010 Cooperative Education Program substitute ITN370 for this unit
INN632-6	Professional Practice

IT70 - Master of Information Management - Full-time

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 fit.enquiry@qut.edu.au for any enquiries.

Year 1, Semester 1

INN331	Management Issues for Information Professionals
INN333	Information Programs
INN335	Information Resources
INN632-1	Professional Practice
INN632-2	Professional Practice

Year 1, Semester 2

INN533	Information Organisation
INN531	Information Services
INN330	Information Management
INN632-3	Professional Practice
INN632-4	Professional Practice

Year 2, Semester 1

INN530	Web Content Reliability
INN532	Information Literacy Education
INN500	IT Project Management
INN632-5	Professional Practice
INN632-6	Professional Practice

IT70 - Master of Information Management - Part-time

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 fit.enquiry@qut.edu.au for any enquiries.

Year 1, Semester 1

INN335	Information Resources
INN122	Organisational Databases
INN632-1	Professional Practice

Year 1, Semester 2

INN330	Information Management
INN533	Information Organisation
INN632-2	Professional Practice

Year 2, Semester 1

INN331	Management Issues for Information Professionals
INN333	Information Programs
INN632-3	Professional Practice

Year 2, Semester 2

INN531	Information Services
	Elective
INN632-4	Professional Practice

Year 3, Semester 1

INN530	Web Content Reliability
INN532	Information Literacy Education
INN632-5	Professional Practice

Year 3, Semester 2

INN690	Minor Project 1
	Students who choose to undertake ITS010 Cooperative Education Program substitute ITN370 for this unit
INN632-6	Professional Practice

IT70 - Master of Information Management - Full-time (2008)

From semester one, 2009 this course will not be available for commencing students. IT70 will only be available for continuing students. New students - please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Year 1, Semester 1

ITN316	Digital Library Systems
ITN274	Management Issues for Info Professionals
ITN362	Organisational Databases
ITN322	Information Resources
ITN280-1	Professional Practice
ITN280-2	Professional Practice

Year 1, Semester 2

ITN275	Information Organisation
ITN276	Information Services
ITN266	Information Management
ITN319	Records Systems
ITN280-3	Professional Practice
ITN280-4	Professional Practice

Year 2, Semester 1

ITN278	Web Content Reliability
ITN279	Information Literacy Education
ITN370	Project
	Students who choose to undertake ITS010 Cooperative Education Program substitute for ITN370.
ITN280-5	Professional Practice
ITN280-6	Professional Practice

IT70 - Master of Information Management - Part-time (2008)

From semester one, 2009 this course will not be available for commencing students. IT70 will only be available for continuing students. New students - please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Year 1, Semester 1

ITN322	Information Resources
ITN362	Organisational Databases
ITN280-1	Professional Practice

Year 1, Semester 2

ITN266	Information Management
ITN275	Information Organisation
ITN280-2	Professional Practice

Year 2, Semester 1

ITN274	Management Issues for Info Professionals
ITN316	Digital Library Systems
ITN280-3	Professional Practice

Year 2, Semester 2

ITN276	Information Services
ITN319	Records Systems
ITN280-4	Professional Practice

Year 3, Semester 1

ITN278	Web Content Reliability
ITN279	Information Literacy Education
ITN280-5	Professional Practice

Year 3, Semester 2

ITN370	Project
	Students who choose to undertake ITS010 Cooperative Education Program substitute ITN370 for this unit
ITN280-6	Professional Practice

IT70 - Master of Information Management - Full-time

Year 1, Semester 1

ITN201	Enterprise Architecture
ITN273	Information Retrieval
ITN274	Management Issues for Info Professionals
ITN362	Organisational Databases

Year 1, Semester 2

ITN275	Information Organisation
ITN276	Information Services
ITN266	Information Management
	Specialisation Unit 1

Year 2, Semester 1

ITN278	Web Content Reliability
ITN279	Information Literacy Education
ITN280	Professional Practice
	Specialisation Unit 2
	Students who choose to undertake ITS010 Cooperative Education Program substitute for ITN280.

Specialisations (select two (2) units from a specialisation

IT70 - Master of Information Management - Part-time

Year 1, Semester 1

ITN273	Information Retrieval
ITN362	Organisational Databases

Year 1, Semester 2

ITN201	Enterprise Architecture
ITN266	Information Management

Year 2, Semester 1

ITN274	Management Issues for Info Professionals
	Specialisation Unit 1

Year 2, Semester 2

ITN275	Information Organisation

ITN276	Information Services

Year 3, Semester 1

ITN278	Web Content Reliability
ITN279	Information Literacy Education

Year 3, Semester 2

ITN280	Professional Practice
	Specialisation Unit 2
	Students who choose to undertake ITS010 Cooperative Education Program substitutes for ITN280.

Specialisations (select two (2) units from a specialisation)

Library Studies

ITN315	Information Management Project
ITN316	Digital Library Systems
ITN317	Advanced Information Services
ITN318	Information Organisation 2
ITN320	Law Library Management
ITN321	Law Librarianship - Legal Research
ITN330	Information Issues and Values
CLN601	Cyberlearning: Information and Knowledge in the Digital Age
CLN603	Designing Spaces for Learning
CLN647	Youth, Popular Culture, and Texts
EDB007	Culture Studies: Indigenous Education
HHB123	Indigenous Australian Culture Studies
SPN624	Adult and Professional Learning

Information and Knowledge Management

ITN255	Knowledge Management
ITN315	Information Management Project
SPN637	Managing Knowledge in Learning Organisations

Records Management

ITN315	Information Management Project
ITN319	Records Systems

Web Management

ITN007	Web Development
ITN239	Enterprise Data Mining
ITN315	Information Management Project

Potential Careers:

Administrator, Information Officer, Librarian.

Graduate Certificate in Information Management (Library Studies)(refer to IT43) (IT73)

Year offered: 2010
Admissions: No
Course duration (part-time): 2 semesters
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 48
Course coordinator: Helen Partridge
Campus: Gardens Point

Course Update

From semester one, 2009 this course will not be available for commencing students. IT73 will only be available for continuing students. New students - please refer to IT43. IT73 continuing students should contact the course coordinator, Helen Partridge for enrolment or progression advice via enquiry.scitech@qut.edu.au or 3138 2782.

Further Information

For further information about this course, please contact:

Helen Partridge
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT73 Graduate Certificate in Information Management (Library Studies) 2010

Course Structure 2010	
	From semester one, 2009 this course will not be available for commencing students. IT73 will only be available for continuing students. New students - please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries.
Core Units	
INN532	Information Literacy Education
	IT Elective
Choose two (2) units from the following:	
INN531	Information Services
INN333	Information Programs
INN331	Management Issues for Information Professionals

IT73 Graduate Certificate in Information Management (Library Studies) 2009

Course Structure 2009	
	From semester one, 2009 this course will not be available for commencing students. IT73 will only be available for continuing students. New students - please refer to IT43. Please contact enquiry.scitech@qut.edu.au for any enquiries.
Core Units	
INN532	Information Literacy Education
	IT Elective
Choose two (2) units from the following:	
INN531	Information Services
INN333	Information Programs
INN331	Management Issues for Information Professionals

IT73 Graduate Certificate in Information Management (Library Studies) 2008

Core Units	
ITN279	Information Literacy Education
ITN370	Project
Choose two (2) units from the following:	
ITN276	Information Services
ITN316	Digital Library Systems
ITN274	Management Issues for Info Professionals

IT73 Graduate Certificate in Information Management (Library Studies) 2007

Core Units	
ITN279	Information Literacy Education
ITN315	Information Management Project
	OR
ITN280	Professional Practice
Choose two (2) units from the following:	
ITN276	Information Services
ITN316	Digital Library Systems
ITN317	Advanced Information Services
ITN318	Information Organisation 2
ITN320	Law Library Management
ITN321	Law Librarianship - Legal Research
CLN601	Cyberlearning: Information and Knowledge in the Digital Age
CLN603	Designing Spaces for Learning
CLN647	Youth, Popular Culture, and Texts
HHB123	Indigenous Australian Culture Studies
EDB007	Culture Studies: Indigenous Education
SPN624	Adult and Professional Learning

Potential Careers:

Librarian.

Graduate Certificate in Information Management (Information and Knowledge Management) (IT74)

Year offered: 2010
Admissions: No
Course duration (part-time): 2 semesters
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 48
Course coordinator: Helen Partridge
Campus: Gardens Point

Course Update

From semester one, 2009 this course will not be available for commencing students. IT73 will only be available for continuing students. New students - please refer to IT43. IT73 continuing students should contact the course coordinator, Helen Partridge for enrolment or progression advice via enquiry.scitech@qut.edu.au or 3138 2782.

Further Information

For further information about this course, please contact:

Helen Partridge
Phone: +61 731382782
Email: enquiry.scitech@qut.edu.au

IT74 Graduate Certificate in Information Management (Information and Knowledge Management)

Course Structure 2009

From semester one, 2009 this course will not be available for commencing students. IT74 will only be available for continuing students. New students - please refer to IT43. Please contact fit.enquiry@qut.edu.au for any enquiries.

Complete these 4 core units

INN220	Business Analysis
INN322	Information Systems Consulting
INN330	Information Management
INN690	Minor Project 1

IT74 Graduate Certificate in Information Management (Information and Knowledge Management)

Course Structure 2009

From semester one, 2009 this course will not be available for commencing students. IT74 will only be available for continuing students. New students - please refer to IT43. Please contact fit.enquiry@qut.edu.au for any enquiries.

Complete these 4 core units

INN220	Business Analysis
INN322	Information Systems Consulting
INN330	Information Management
INN690	Minor Project 1

IT74 Graduate Certificate in Information Management (Information and Knowledge Management)

Complete these 4 core units

ITN201	Enterprise Architectures
ITN264	Information Systems Consulting
ITN266	Information Management
ITN370	Project

Potential Careers:

Librarian.

Graduate Certificate in Information Management (Records Management) (IT75)

Year offered: 2010
Admissions: No
Course duration (part-time): 2 semesters
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 48
Course coordinator: Dr Helen Partridge
Campus: Gardens Point

Course Update

From semester one, 2009 this course will not be available for commencing students. IT73 will only be available for continuing students. New students - please refer to IT43. IT73 continuing students should contact the course coordinator, Helen Partridge for enrolment or progression advice via enquiry.scitech@qut.edu.au or 3138 2782.

Further Information

For further information about this course, please contact:

Helen Partridge
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT75 Graduate Certificate in Information Management (Records Management)

Course Structure 2009	
	From semester one, 2009 this course will not be available for commencing students. IT45 will only be available for continuing students. New students - please refer to IT43. Please contact fit.enquiry@qut.edu.au for any enquiries.

Core Units	
	IT Elective
INN330	Information Management
INN690	Minor Project 1

Choose one unit from the following	
INN122	Organisational Databases
INN530	Web Content Reliability

IT75 Graduate Certificate in Information Management (Records Management)

Course Structure 2009	
	From semester one, 2009 this course will not be available for commencing students. IT45 will only be available for continuing students. New students - please refer to IT43. Please contact fit.enquiry@qut.edu.au for any enquiries.

Core Units	
	IT Elective
INN330	Information Management
INN690	Minor Project 1

Choose one unit from the following	
INN122	Organisational Databases
INN530	Web Content Reliability

Potential Careers:

Librarian.

Graduate Certificate in Information Management (Web Management) (IT76)

Year offered: 2010
Admissions: No
Course duration (part-time): 2 semesters
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 48
Course coordinator: Dr Helen Partridge
Campus: Gardens Point

Course Update

From semester one, 2009 this course will not be available for commencing students. IT73 will only be available for continuing students. New students - please refer to IT43. IT73 continuing students should contact the course coordinator, Helen Partridge for enrolment or progression advice via enquiry.scitech@qut.edu.au or 3138 2782.

Further Information

For further information about this course, please contact:

Helen Partridge
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Potential Careers:

Librarian.

Doctor of Information Technology (IT80)

Year offered: 2010
Admissions: No
CRICOS code: 063035A
Course duration (full-time): 3 years
Course duration (part-time): 6 years
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $11,750 (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:

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

IT81 - course structure with one 192 cps thesis

Notes

This is an indicative course structure only. Students should discuss their program with the Course Coordinator.

Year 1, Semester 1

INNXXX	PG coursework elective unit
INNXXX	PG coursework elective unit
INNXXX	PG coursework elective unit
INN690	Minor Project 1
	Allows you an opportunity to extend your knowledge in related fields, improve your understanding of project management, develop venture capital, leadership competencies or to lead research groups.
	Coursework should normally be completed within the first year, subject to unit availability. Variations to this would be made in consultation with your supervisory team.

Year 1, Semester 2

INN701	Advanced Research Topics
	A literature review of the related theory.
INN691	Minor Project 2
	A literature review of the relevant 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, Semester 1

INR400-1	Thesis 4
INR400-2	Thesis 4

Year 2, Semester 2

INR400-3	Thesis 4
INR400-4	Thesis 4

Year 3, Semester 1

INR400-5	Thesis 4
INR400-6	Thesis 4

Year 3, Semester 2

INR400-7	Thesis 4
INR400-8	Thesis 4

IT81 - course structure with two 96 cps thesis

Notes

This is an indicative course structure only. Students should discuss their program with the Course Coordinator.

Year 1, Semester 1	
INNXXX	PG coursework elective unit
INNXXX	PG coursework elective unit
INNXXX	PG coursework elective unit
INN690	Minor Project 1
	Allows you an opportunity to extend your knowledge in related fields, improve your understanding of project management, develop venture capital, leadership competencies or to lead research groups.
	Coursework should normally be completed within the first year, subject to unit availability. Variations to this would be made in consultation with your supervisory team.

Year 1, Semester 2	
INN701	Advanced Research Topics
	A literature review of the related theory.
INN691	Minor Project 2
	A literature review of the relevant research methods and approaches that may be of use.
INN692	Minor Project 3
	A pilot study of the selected theory and method to a subset of the problem in order to test the efficacy of the methods and theories selected.
INN700	Introduction To Research
	Student constructs an integrated research proposal.

Year 2, Semester 1	
INR100-1	Thesis 1
INR100-2	Thesis 1
INR100-3	Thesis 1
INR100-4	Thesis 1

Year 2, Semester 2	
INR100-5	Thesis 1
INR100-6	Thesis 1
INR100-7	Thesis 1
INR100-8	Thesis 1

Year 3, Semester 1	
INR200-1	Thesis 2
INR200-2	Thesis 2
INR200-3	Thesis 2
INR200-4	Thesis 2

Year 3, Semester 2	
INR200-5	Thesis 2
INR200-6	Thesis 2
INR200-7	Thesis 2
INR200-8	Thesis 2

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631-1	Executive Coaching
INN631-2	Executive Coaching
INN631-3	Executive Coaching
INN631-4	Executive Coaching
INN631-5	Executive Coaching
INN631-6	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)
INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS452	CCNP1: Building Scalable Internetworks
INS451	CCNA 3 and 4 Lan Switching
INS454	CCNP3: Building Multi Layered Switched Networks
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Doctor of Information Technology (IT81)

Year offered: 2010
Admissions: Yes
CRICOS code: 063035A
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 - 2010: $11,750 per semester (indicative)
International Fees (indicative): 2010: Full fee tuition $11,750 (indicative) per semester
Domestic Entry: February, July and November
International Entry: February, July and November
Total credit points: 288
Course coordinator: Dr Richi Nayak
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

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:

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

IT81 - course structure with one 192 cps thesis

Notes	
	This is an indicative course structure only. Students should discuss their program with the Course Coordinator.

Year 1, Semester 1	
INNXXX	PG coursework elective unit
INNXXX	PG coursework elective unit
INNXXX	PG coursework elective unit
INN690	Minor Project 1
	Allows you an opportunity to extend your knowledge in related fields, improve your understanding of project management, develop venture capital, leadership competencies or to lead research groups.
	Coursework should normally be completed within the first year, subject to unit availability. Variations to this would be made in consultation with your supervisory team.

Year 1, Semester 2	
INN701	Advanced Research Topics
	A literature review of the related theory.
INN691	Minor Project 2
	A literature review of the relevant 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, Semester 1	
INR400-1	Thesis 4
INR400-2	Thesis 4

Year 2, Semester 2	
INR400-3	Thesis 4
INR400-4	Thesis 4

Year 3, Semester 1	
INR400-5	Thesis 4
INR400-6	Thesis 4

Year 3, Semester 2	
INR400-7	Thesis 4
INR400-8	Thesis 4

IT81 - course structure with two 96 cps thesis

Notes	
	This is an indicative course structure only. Students should discuss their program with the Course Coordinator.

Year 1, Semester 1	
INNXXX	PG coursework elective unit
INNXXX	PG coursework elective unit
INNXXX	PG coursework elective unit
INN690	Minor Project 1
	Allows you an opportunity to extend your knowledge in related fields, improve your understanding of project management, develop venture capital, leadership competencies or to lead research groups.
	Coursework should normally be completed within the first year, subject to unit availability. Variations to this would be made in consultation with your supervisory team.

Year 1, Semester 2	
INN701	Advanced Research Topics
	A literature review of the related theory.
INN691	Minor Project 2
	A literature review of the relevant research methods and approaches that may be of use.
INN692	Minor Project 3
	A pilot study of the selected theory and method to a subset of the problem in order to test the efficacy of the methods and theories selected.
INN700	Introduction To Research
	Student constructs an integrated research proposal.

Year 2, Semester 1	
INR100-1	Thesis 1
INR100-2	Thesis 1
INR100-3	Thesis 1
INR100-4	Thesis 1

Year 2, Semester 2	
INR100-5	Thesis 1
INR100-6	Thesis 1
INR100-7	Thesis 1
INR100-8	Thesis 1

Year 3, Semester 1	
INR200-1	Thesis 2
INR200-2	Thesis 2
INR200-3	Thesis 2
INR200-4	Thesis 2

Year 3, Semester 2	
INR200-5	Thesis 2
INR200-6	Thesis 2
INR200-7	Thesis 2
INR200-8	Thesis 2

Postgraduate IT Units

Unit List:	
INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development
INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
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
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Graduate Certificate in Information Technology (IT85)

Year offered: 2010
Admissions: Yes
Course duration (part-time): 1 year
Domestic fees (indicative): 2010: Full fee tuition $7,500 (indicative) per semester
International Fees (indicative): 2010: $14,000 (indicative) per semester
Domestic Entry: February and July
Total credit points: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Ernest Foo
Discipline 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 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.

Entry Requirements

To be eligible for this program, students must meet one of the following criteria:

- the Australian equivalent of a bachelor's degree in any discipline with a grade point average of at least 4.5 (on a 7-point scale)

OR

- evidence of recognised prior higher learning in the field of Information and Information Technology (e.g. at least five years of relevant full-time work experience). Industry certification alone is not sufficient evidence.

Special entry requirements

Executive Information Practice:
This major contains core units from MBA and as such must also meet the MBA entry requirements:
- Demonstrate comtency in the English language
- Have a GMAT score of at least 500
- Have at least three years work experience
- At least 10 points from at least two of the three categories
- prior work experience, academic achievement and management aptitude
- For further information, including details regarding the allocation of points, please see refer to the table at: http://www.bgsb.qut.edu.au/study/entryreq/index.jsp

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 Brisbane Graduate School of Business (BGSB) must meet the MBA entry requirements. Please see the BGSB website http://www.bgsb.qut.edu.au/study/mba/mbacourses/ for further information.

Further Information

For further information about this course, please contact:

Ernest Foo
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

IT85 - Graduate Certificate In Information Technology

Major Study Areas
Students choose one of the following majors (see Major option list):
No Major
Software Architecture
Network Management
Enterprise Systems

Games Production
Games Design
Security
Executive Information Practice
Library and Information Science
Information Management
Digital Environments

IT85 - Graduate Certificate In Information Technology

Major Study Areas

Students choose one of the following majors (see Major option list):

No Major
Software Architecture
Network Management
Enterprise Systems
Games Production
Games Design
Security
Executive Information Practice
Library and Information Science
Information Management
Digital Environments

IT85 - Major Options

A Major block has 84 credit points plus a 48 credit point Elective block

No Major

INNXXX	*Any IT postgraduate units to the total of 48 credit points

Software Architecture

	Any four units from:
INN371	Data Structures and Algorithms
INN372	Agile Software Development
INN374	Enterprise Software Architecture
INN570	Internationalisation of Software
INN500	PRINCE2 (R) Project Management
INN370	Software Development

Enterprise Systems

	Any 4 units from:
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN374	Enterprise Software Architecture
INN610	Case Studies in Enterprise Systems
INN500	PRINCE2 (R) Project Management

Network Management

	Any four units from:
INN350	Internet Protocols and Services
INN351	Unix Network Administration
INN352	Network Planning
INN650	Advanced Network Management
INN500	PRINCE2 (R) Project Management

Games Production

INN180	Computer Games Studies
INN181	Introduction to Games Production
PLUS	Any 2 units from:
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN500	PRINCE2 (R) Project Management
INN220	Business Analysis
INN321	Business Process Management

Games Design

INN180	Computer Games Studies
INN280	Fundamentals of Game Design
INN272	Interaction Design
PLUS	Any 1 unit from:
INN500	PRINCE2 (R) Project Management
INN281	Advanced Game Design
INN600	Advanced Readings 1
INN601	Advanced Readings 2
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion

Security

INN255	Security
INN651	Security Technologies
PLUS	Any 2 units from:
INN700	Introduction To Research
INN355	Cryptology and Protocols
INN652	Advanced Cryptology
INN550	Computer Forensics
MGN524	Special Topic in Management 1
AYN410	Business Law and Ethics
MGN433	Managing High-Performance Organisations
MGN423	Contemporary Strategic Analysis
GSN440	Risk Management 1
JSN106	Analytical Methods of Intelligence
JSN114	Cybercrime
MAN778	Applications of Discrete Mathematics
LWN139	Privacy Law
LWN125	Electronic Commerce Law
INN690	Minor Project 1

INN691	Minor Project 2
INN692	Minor Project 3
INN694-1	Project 1
INN694-2	Project
INN696-1	Major Project 1
INN696-2	Major Project 2
INN600	Advanced Readings 1
INN601	Advanced Readings 2
INN602	Advanced Readings 3
INN605	Advanced Research 1
INN606	Advanced Research 2
INN607	Advanced Research 3

Library and Information Science

INN690	Minor Project 1
PLUS	Any 3 units from:
INN332	Information Retrieval
INN531	Information Services
INN533	Information Organisation
INN333	Information Programs
INN530	Web Content Reliability
INN532	Information Literacy Education
INN632-1	Professional Practice
INN632-2	Professional Practice
INN632-3	Professional Practice
INN632-4	Professional Practice
INN632-6	Professional Practice
INN632-5	Professional Practice
INN330	Information Management
INN331	Management Issues for Information Professionals
INN271	The Web
INN700	Introduction To Research
INN342	Enterprise Data Mining and Data Analysis
INN540	User Experience
INN600	Advanced Readings 1
INN605	Advanced Research 1
CLN601	Cyberlearning: Information and Knowledge in the Digital Age
CLN603	Designing Spaces for Learning
CLN647	Youth, Popular Culture, and Texts
CLN650	Information-Learning Nexus
EDN611	Professional Applications of Research
KCP402	New Media Studies
MDN642	Digital Pedagogies
SPN624	Adult and Professional Learning
INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications

Information Management

INN330	Information Management
INN335	Information Resources
SPN637	Managing Knowledge in Learning Organisations
PLUS	Any 1 unit from:
INN122	Organisational Databases
INN255	Security
INN220	Business Analysis
INN334	Information Issues and Values
INN345	Mobile Devices
INN346	Enterprise 2.0
INN540	User Experience
INN347	Web 2.0 Applications

Executive Information Practice

INN630	Evidence Based Practice
INN631	Executive Coaching
PLUS	Any 4 units from:
GSN401	Managing in the Global Business Environment
GSN403	Understanding Data
GSN404	Financial Statements Analysis
GSN405	Strategic Management
GSN406	Human Resource Management Issues
GSN407	Business Communication
GSN408	Fundamentals of Marketing Management
GSN409	Organisational Behaviour 1
GSN410	Entrepreneurship
GSN412	Business Law 1
GSN413	Financial Management 1
GSN415	Understanding Leadership
GSN491	Economics in Business 1

Digital Environments

INN345	Mobile Devices
INN346	Enterprise 2.0
INN347	Web 2.0 Applications
INN500	PRINCE2 (R) Project Management
INN540	User Experience
KCP402	New Media Studies

Postgraduate IT Units

Unit List:

INN101	Impact of IT
INN120	Corporate Systems
INN122	Organisational Databases
INN124	Information Systems Development

INN180	Computer Games Studies
INN181	Introduction to Games Production
INN210	Databases
INN220	Business Analysis
INN221	Technology Management
INN230	Foundations of Information Retrieval
INN250	Computer Architectures and Systems
INN251	Networks
INN255	Security
INN270	Programming
INN271	The Web
INN272	Interaction Design
INN280	Fundamentals of Game Design
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN313	Electronic Commerce Site Development
INN320	Business Process Modelling
INN321	Business Process Management
INN322	Information Systems Consulting
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
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
INN380	Games Project
INN381	Modelling and Animation Techniques
INN382	Real Time Rendering Techniques
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems
INN500	PRINCE2 (R) Project Management
INN530	Web Content Reliability
INN531	Information Services
INN532	Information Literacy Education
INN533	Information Organisation
INN540	User Experience
INN545	Introduction to Health Technology
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 Enterprise Systems
INN630	Evidence Based Practice
INN631-1	Executive Coaching
INN631-2	Executive Coaching
INN631-3	Executive Coaching
INN631-4	Executive Coaching
INN631-5	Executive Coaching
INN631-6	Executive Coaching
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
INN696-2	Major Project 2
INN700	Introduction To Research
INN701	Advanced Research Topics
INN281	Advanced Game Design
INS040	Professional Experience (Postgraduate)

INS450	CCNA 1 and 2 Network Fundamentals and Routing
INS452	CCNP1: Building Scalable Internetworks
INS451	CCNA 3 and 4 Lan Switching
INS454	CCNP3: Building Multi Layered Switched Networks
INS453	CCNP 2: Building Multi Layered Switched Networks
INS455	CCNP4: Optimising Converged Networks

Graduate Certificate in Information Technology (Wireless Games Technology) (IT89)

Year offered: 2010
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Domestic Entry: February and July
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

IT89 - Graduate Certificate in IT (Wireless Games Technology)

Four (4) units to be selected from the following	
INN272	Interaction Design
INN350	Internet Protocols and Services
INN353	Wireless and Mobile Networks
INN381	Modelling and Animation Techniques

Graduate Certificate in Information Technology (Computer Networks) (IT90)

Year offered: 2010
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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: 2010
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Assumed knowledge: See entry requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

IT92 Grad Cert in Information Technology (Information Security)

Four (4) units to be completed	
INN690	Minor Project 1
INN255	Security
INN355	Cryptology and Protocols
INN652	Advanced Cryptology

Potential Careers:

Data Communications Specialist, Internet Professional, Network Administrator, Network Manager.

Graduate Certificate in Information Technology (Enterprise Wide Software) (IT93)

Year offered: 2010
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Domestic Entry: February and July
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

IT93 - Graduate Certificate in IT (Enterprise Wide Software)

Four (4) units to be completed	
INN311	Enterprise Systems
INN312	Enterprise Systems Applications
INN610	Case Studies in Enterprise Systems
INN321	Business Process Management

Graduate Certificate in Information Technology (Electronic Commerce) (IT94)

Year offered: 2010
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Domestic Entry: February and July
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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: 2010
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Domestic Entry: February and July
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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	
	IT Elective
INN696-2	

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: 2010
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

IT96 - Graduate Certificate in IT (Information Technology Management)

Four (4) units to be completed	
INN221	Technology Management
INN322	Information Systems Consulting
INN330	Information Management
INN500	PRINCE2 (R) Project Management

Graduate Certificate in Information Technology (Generic) (IT97)

Year offered: 2010
Admissions: No
Course duration (full-time): 1 semester
Course duration (part-time): 2 semesters
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Domestic Entry: February and July
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point and External

IT97 is an exit option only

IT97 Graduate Certificate in IT	
ITN272	Information Technology Project Management
AND	Three of the following Basic units:
ITN200	Database Systems
ITN201	Enterprise Architectures
ITN701	Networks and Systems
OPTIONAL	One of the following Basic units:
ITN700	Programming Principles
ITB001	Problem Solving and Programming

Potential Careers:

Data Communications Specialist, Internet Professional, Network Administrator, Network Manager, Programmer, Software Engineer, Systems Analyst, Systems Manager.

Graduate Certificate in Information Technology (Multimedia) (IT98)

Year offered: 2010
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Domestic Entry: February and July
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

IT98 - Graduate Certificate in IT (Multimedia)

Four (4) units to be selected from the following	
INN271	The Web
INN272	Interaction Design
INN385	Multimedia Systems
INN386	Advanced Multimedia Systems

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

Year offered: 2010
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks (based on completing 2 units/sem)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Domestic Entry: February and July
Assumed knowledge: See Entry Requirements
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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: 2010
Admissions: Yes
CRICOS code: 020322E
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,151 (indicative) per semester
International Fees (indicative): 2010: $11,250 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 409112
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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

Career Opportunities

The Bachelor of Applied Science allows multidisciplinary programs of study that not only help you position yourself within the broad range of science disciplines but also qualifies you as a competent professional in your chosen field. You are 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 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.

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.

Professional Recognition

Graduates are eligible for registration as teachers in Queensland through the Queensland College of Teachers. Graduates looking for employment in other parts of Australia and overseas may be required to meet additional conditions.

Graduates will satisfy the requirements for membership of the relevant professional body for their chosen science major. See the Bachelor of Applied Science (SC01) course for details.

Working With Children Check

Working With Children Check - As required by the Commission for Children and Young People and Child Guardian Act (2000), student teachers must undergo a criminal history check and be issued with a Suitability Card (Blue Card) by the Commission.

As soon as you enter your enrolment program for the course, you must submit your Blue Card application to the QUT Student Centre immediately. You must hold a Blue Card. to undertake activities in any unit which involves contact with children, including the required field studies blocks.

If you do not apply for a Blue Card. immediately upon enrolment in the course and allow sufficient time for the police check and issuing of the Card, you will be unable to participate in the required activities and may need to be withdrawn from the unit(s) and incur both financial and academic penalty. It may take up to 8 weeks for the Commission to issue the Card. The application form is available at bluecard.qut.com.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, portfolios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Limits on grades of 3

A new policy concerning grades of 3 came into effect from 1 January 2009 (QUT MOPP C/5.2). With effect from this date grades of 3 are no longer considered a conceded or low pass but are classified as a fail grade. Any grades of 3 awarded prior to 1 January 2009 retain the conceded pass status and will be counted for graduation purposes up to the maximum number of grades of 3 permitted for your course. Grades of 3 incurred in units that commence after 1 January 2009 will not count towards your degree. Further information is available on the Student Services website

Further Information

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

Science & Technology Coordinator
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au
Alternative phone contact: +61 7 3138 2782
Alternative email contact: enquiry.scitech@qut.edu.au

Education Coordinator
Dr Mal Shield
Phone: +61 7 3138 3323
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
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

Course structure

Year 1, Semester 1	
	Science Major Unit
	Science Major Unit
	Science Major Unit
	Science Major Unit

Year 1, Semester 2	
	Science Major Unit
	Science Major Unit
	Science Major Unit
	Science Major Unit
	Science Major Unit

Year 2, Semester 1	
EDB002	Teaching and Learning Studies 2: Development and Learning
EDB031	Secondary Field Studies 1
	Curriculum Studies 1X (See List 1)
	Science Major Unit
	Science Major Unit
	Please note: The teaching prac component of EDB031 will be organised to commence as soon as schools return for Term 1 in January. Students will have to be available for four weeks prior to commencement of semester 1. This is to allieviate the problem of students studying 13 week discipline units in the same semester as a teaching prac. Contact the Student Affairs Office on 3138 3948 for further information.

Year 2, Semester 2	
MDB454	Science, Technology and Society
	Science Major Unit
	Science Major Unit
	Science Major Unit
	Science Major Unit

Year 3, Semester 1	
	Curriculum Studies 1Y (See List 1)

	Science Major Unit
	Science Major Unit
	Science Major Unit
	Science Major Unit

Year 3, Semester 2

EDB003	Teaching and Learning Studies 3: Practising Education
EDB032	Secondary Field Studies 2
	Curriculum Studies 2X (See List 2)
	Curriculum Studies 2Y (See List 2)

Year 4, Semester 1

EDB004	Teaching and Learning Studies 4: Inclusive Education
EDB033	Secondary Field Studies 3
	Curriculum Studies 3X (See List 3)
	Curriculum Studies 3Y (See List 3)

Year 4, 6TP4

EDB005	Teaching and Learning Studies 5: Professional Work of Teachers
EDB007	Culture Studies: Indigenous Education
	(students must enrol in the 6TP4 mode for both EDB005 and EDB007)
	EDB005 is delivered through the Stepping Out Conference, which for 2010 is held from 12-14 July (subject to change).

Year 4, Semester 2

EDB034	Secondary Field Studies 4
EDB035	Internship (Secondary)

Course structure - Major in Biochemistry

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
SCB222	Exploration of the Universe

Year 2, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 2, Semester 2

LQB481	Biochemical Pathways and Metabolism
LQB483	Molecular Biology Techniques
MDB454	Science, Technology and Society
LQB682	Protein Biochemistry and Bioengineering
	Science Elective (See list)

Year 3, Semester 1

LQB581	Functional Biochemistry
LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
	Science Elective (See list)

Course structure - Major in Biotechnology

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
SCB222	Exploration of the Universe

Year 2, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
	Science Elective (See list)
	Science Elective (See list)
MDB454	Science, Technology and Society

Year 3, Semester 1

LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Course structure - Major in Chemistry

Year 1, Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2	
MAB120	
SCB121	Chemistry 2
SCB123	Physical Science Applications
SCB131	Experimental Chemistry
SCB222	Exploration of the Universe

Year 2, Semester 1	
PQB312	Analytical Chemistry For Scientists and Technologists
PQB331	Structure and Bonding

Year 2, Semester 2	
PQB401	Reaction Kinetics, Thermodynamics and Mechanisms
PQB442	Chemical Spectroscopy
PQB631	Advanced Inorganic Chemistry
	Science Elective (See list)
MDB454	Science, Technology and Society

Year 3, Semester 1	
PQB502	Advanced Physical Chemistry
PQB513	Instrumental Analysis
PQB531	Organic Mechanisms and Synthesis
	Science Elective (See list)

Course structure - Major in Ecology

Year 1, Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2	
NQB201	Planet Earth
NQB202	History of Life on Earth
NQB422	Genetics and Evolution
SCB120	Plant and Animal Physiology
SCB222	Exploration of the Universe

Year 2, Semester 1	
NQB321	Ecology
NQB322	Invertebrate Biology

Year 2, Semester 2	
NQB421	Experimental Design
NQB622	Conservation Biology
	Plus either
	Or
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
	Science Elective (See list)
MDB454	Science, Technology and Society

Year 3, Semester 1	
NQB502	Field Methods in Natural Resource Sciences
NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management
	Science Elective (See list)

Course structure - Major in Environmental Science

Year 1, Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2	
NQB201	Planet Earth
NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology
SCB123	Physical Science Applications
SCB222	Exploration of the Universe

Year 2, Semester 1	
NQB302	Earth Surface Systems
NQB321	Ecology

Year 2, Semester 2	
NQB403	Soils and the Environment
NQB421	Experimental Design
NQB601	Sustainable Environmental Management
	Science Elective (See list)
MDB454	Science, Technology and Society

Year 3, Semester 1

NQB501	Environmental Modelling
NQB502	Field Methods in Natural Resource Sciences
NQB503	Spatial Analysis of Environmental Systems
	Science Elective (See list)

Course structure - Major in Geoscience

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

NQB201	Planet Earth
NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology
SCB123	Physical Science Applications
SCB222	Exploration of the Universe

Year 2, Semester 1

NQB311	Mineralogy
NQB314	Sedimentary Geology

Year 2, Semester 2

NQB411	Petrology of Igneous and Metamorphic Rocks
NQB412	Structural Geology and Field Methods
NQB614	Groundwater Systems
	Science Elective (See list)
MDB454	Science, Technology and Society

Year 3, Semester 1

NQB502	Field Methods in Natural Resource Sciences
NQB503	Spatial Analysis of Environmental Systems
NQB513	Geophysics
	Science Elective (See list)

Course structure - Major in Mathematics (WITH Maths C from Senior)

WITH GENERAL SCIENCE AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
MAB121	Calculus and Differential Equations
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 1, Semester 2

MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1
SCB112	Cellular Basis of Life

Year 2, Semester 1

MAB311	Advanced Calculus
MAB315	Operations Research 2

Year 2, Semester 2

MAB625	Operations Research 3B
MDB454	Science, Technology and Society
PQB251	Waves and Optics
	Plus either
MAB414	Applied Statistics 2
	Or
MAB422	Mathematical Modelling
	Plus ONE unit from the following:
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB422	Mathematical Modelling
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

	Select THREE units from the following:
MAB521	Applied Mathematics 3
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB672	Advanced Mathematical Modelling
	Plus
PQB350	Thermodynamics of Solids and Gases

Course structure - Major in Mathematics (WITHOUT Maths C)

WITH GENERAL SCIENCE AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 1, Semester 2

MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1
PQB250	Mechanics and Electromagnetism

Year 2, Semester 1

MAB311	Advanced Calculus
MAB315	Operations Research 2

Year 2, Semester 2

MAB625	Operations Research 3B
	Plus either
MAB414	Applied Statistics 2
	Or
MAB422	Mathematical Modelling
MDB454	Science, Technology and Society
PQB251	Waves and Optics
	Plus select ONE unit from the following:
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB422	Mathematical Modelling
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

	Select THREE units from the following:
MAB521	Applied Mathematics 3
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB672	Advanced Mathematical Modelling
	Plus
PQB350	Thermodynamics of Solids and Gases

Course structure - Major in Microbiology

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
SCB222	Exploration of the Universe

Year 2, Semester 1

LQB381	Biochemistry: Structure and Function
LQB386	Microbial Structure and Function

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB486	Clinical Microbiology 1
LQB687	Applied Microbiology 2: Food and Quality Assurance
	Science Elective (See list)
MDB454	Science, Technology and Society

Year 3, Semester 1

LQB586	Clinical Microbiology 2
LQB587	Applied Microbiology 1: Water, Air and Soil
	Either
LQB582	Biomedical Research Technologies
	Or
LQB583	Genetic Research Technology
	Science Elective (See list)

Course structure - Major in Physics (WITH Maths C from Senior)

WITH GENERAL SCIENCE AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB121	Calculus and Differential Equations
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

MAB122	Algebra and Analytic Geometry
MAB220	Computational Mathematics 1
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
MAB101	Statistical Data Analysis 1

Year 2, Semester 1

MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 2, Semester 2

PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation
PQB650	Advanced Theoretical Physics
MDB454	Science, Technology and Society
	Plus select ONE unit from the following:
MAB210	Statistical Modelling 1
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB422	Mathematical Modelling
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

MAB312	Linear Algebra
PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques
PQB651	Experimental Physics

WITH MATHEMATICS AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB121	Calculus and Differential Equations
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

MAB122	Algebra and Analytic Geometry
MAB220	Computational Mathematics 1
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB210	Statistical Modelling 1

Year 2, Semester 1

MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 2, Semester 2

PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation
PQB650	Advanced Theoretical Physics
	Plus select TWO units from the following:
MAB210	Statistical Modelling 1
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB422	Mathematical Modelling
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

MAB312	Linear Algebra
PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques
PQB651	Experimental Physics

Course structure - Major in Physics (WITHOUT Maths C from Senior)

WITH GENERAL SCIENCE AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
SCB222	Exploration of the Universe

Year 2, Semester 1

MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 2, Semester 2

PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation
PQB650	Advanced Theoretical Physics

MDB454	Science, Technology and Society

Year 3, Semester 1

PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques
PQB651	Experimental Physics
MAB101	Statistical Data Analysis 1

WITH MATHEMATICS AS A SECOND TEACHING AREA

Year 1, Semester 1

MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB220	Computational Mathematics 1
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics

Year 2, Semester 1

MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 2, Semester 2

PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation

PQB650	Advanced Theoretical Physics
MAB454	
	Plus select ONE unit from the following:
MAB210	Statistical Modelling 1
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB422	Mathematical Modelling
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques
PQB651	Experimental Physics
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB312	Linear Algebra

Second Teaching Area - General Science

SCB120	Plant and Animal Physiology
	Or
SCB222	Exploration of the Universe
	Plus
MDB454	Science, Technology and Society
	In addition, choose 2 units from the Science Electives List

Science Electives

Select TWO units that you have not already done from the following:

Semester 1 Units:

NQB321	Ecology
NQB322	Invertebrate Biology
NQB323	Plant Biology
SCB121	Chemistry 2

Semester 2 Units:

NQB201	Planet Earth
NQB202	History of Life on Earth
NQB403	Soils and the Environment
NQB423	Vertebrate Biology
PQB250	Mechanics and Electromagnetism
SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

List 1: Curriculum Studies 1X & 1Y

	Prerequisite: Normally 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

List 2: Curriculum Studies 2X & 2Y

	Prerequisites: Curriculum Studies 1X & 1Y
MDB010	Biology Curriculum Studies 2
	(MDB010 is suitable for students studying Biochemistry, Biotechnology, Ecology, Environmental Science, Microbiology)
MDB013	Chemistry Curriculum Studies 2
	(MDB013 is suitable for students majoring in Biochemistry or Biotechnology – contains more emphasis on chemistry rather than biology)
MDB019	Earth Science Curriculum Studies 2
	(MDB019 is suitable for students majoring in Environmental Science or Geoscience – contains more emphasis on geology rather than biology)
MDB022	Mathematics Curriculum Studies 2
MDB025	Physics Curriculum Studies 2
MDB028	Science Curriculum Studies 2
	(MDB028 is suitable for students interested in teaching junior science)

List 3: Curriculum Studies 3X & 3Y

	Prerequisites: Curriculum Studies 2X & 2Y. Students undertaking a double Science major will undertake MDB033 as Curriculum Studies 3X, and an education elective as Curriculum Studies 3Y. Students studying Maths or Physics as a major or minor will take MDB033 as Curriculum Studies 3X, and can take MDB023 as their Curriculum Studies 3Y unit.
MDB023	Mathematics Curriculum Studies 3
MDB033	Science Education Curriculum Studies 3

Education Electives

LIST 4: EDUCATION ELECTIVES

CLB049	The Global Teacher
MDB021	Mathematics Curriculum Studies 1
SPB012	Classroom and Behaviour Management
SPB018	Teaching Strategies
SPB020	Classroom Assessment Practices
SPB006	Educational Counselling
	(If enrolled in SPB006, must choose BLOCK option as teaching prac commences in week 10)

Potential Careers:

Actuary, Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Database Manager, Ecologist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist, Laboratory Technician (Chemistry), Marine Scientist, Mathematician, Medical Biotechnologist, Medical Physicist, Microbiologist, Natural Resource Scientist, Physicist, Plant Biotechnologist, Population Ecologist, Programmer, Quantitative Analyst, Statistician, Virologist.

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

Year offered: 2010
Admissions: Yes
CRICOS code: 037540M
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,350 (indicative) per semester
International Fees (indicative): 2010: $11,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 409142
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr Perry Hartfield (Science & Technology). For science enquiries email: scitech.enquiry@qut.edu.au. For education enquires email: educationenq@qut.edu.au or phone 3138 8947
Discipline coordinator: Education Course Coordintor Dr Mary Ryan. Science Discipline Coordinators: 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 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

Career Opportunities

The Bachelor of Applied Science allows multidisciplinary programs of study that not only help you position yourself within the broad range of science disciplines but 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.

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.

Professional Recognition

Graduates are eligible for registration as teachers in Queensland through the Queensland College of Teachers. Graduates looking for employment in other parts of Australia and overseas may be required to meet additional conditions.

Graduates will satisfy the requirements for membership of the relevant professional body for their chosen science major. See the Bachelor of Applied Science course for details.

Working With Children Check

Working With Children Check - As required by the Commission for Children and Young People and Child Guardian Act (2000), student teachers must undergo a criminal history check and be issued with a Suitability Card (Blue Card) by the Commission.

As soon as you enter your enrolment program for the course, you must submit your Blue Card application to the QUT Student Centre immediately. You must hold a Blue Card. to undertake activities in any unit which involves contact with children, including the required field studies blocks.

If you do not apply for a Blue Card. immediately upon enrolment in the course and allow sufficient time for the police check and issuing of the Card, you will be unable to participate in the required activities and may need to be withdrawn from the unit(s) and incur both financial and academic penalty. It may take up to 12 weeks for the Commission to issue the Card. The application form is available at bluecard.qut.com.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, portfolios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Further Information

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

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Faculty of Education
Student Affairs
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Discipline Coordinators

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Environmental Science
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Geoscience
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Mathematics
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Microbiology
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Email: c.knox@qut.edu.au

Physics
Dr Greg Michael
Phone: +61 7 3138 1584
Email: g.michael@qut.edu.au top

Course structure

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
	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
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
MDB006	Teaching Primary Science

Year 4, 6TP4	
MDB004	Teaching Primary ICT
EDB005	Teaching and Learning Studies 5: Professional Work of Teachers
	EDB005 is delivered through the Stepping Out Conference, which for 2010 is held from 12-14 July (subject to change).

Year 4, Semester 2	
EDB024	Primary Field Studies 4: Professional Work of Teachers - Induction into the Field
EDB025	Internship (Primary)

Course structure - Major in Biochemistry

Year 1, Semester 1	
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1

	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function

Year 2, Semester 2

LQB481	Biochemical Pathways and Metabolism
LQB483	Molecular Biology Techniques
LQB681	Biochemical Research Skills

Year 3, Semester 1

LQB581	Functional Biochemistry
LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
	Science Elective

Course structure - Major in Biotechnology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
	Plus select ONE unit from the following:
LQB481	Biochemical Pathways and Metabolism
LQB486	Clinical Microbiology 1
LQB489	Plant Physiology and Cell Biology

Year 3, Semester 1

LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Course structure - Major in Chemistry

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

MAB120	Algebra and Calculus
SCB121	Chemistry 2
SCB131	Experimental Chemistry

Year 2, Semester 1

PQB312	Analytical Chemistry For Scientists and Technologists
PQB313	Analytical Chemistry For Industry
PQB331	Structure and Bonding

Year 2, Semester 2

PQB401	Reaction Kinetics, Thermodynamics and Mechanisms
PQB442	Chemical Spectroscopy
PQB631	Advanced Inorganic Chemistry

Year 3, Semester 1

PQB502	Advanced Physical Chemistry
PQB513	Instrumental Analysis
	Plus either
PQB525	Unit Operations
	Or
PQB531	Organic Mechanisms and Synthesis
	Science Elective

Course structure - Major in Ecology

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB112	Cellular Basis of Life
MAB101	Statistical Data Analysis 1
	Plus either
	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
	Either
NQB322	Invertebrate Biology
	Or
NQB323	Plant Biology

Year 2, Semester 2	
NQB421	Experimental Design
NQB622	Conservation Biology
	Science Elective

Year 3, Semester 1	
NQB502	Field Methods in Natural Resource Sciences
NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management
	Science Elective

Course structure - Major in Environmental Science

Year 1, Semester 1	
SCB110	Science Concepts and Global Systems
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2	
NQB201	Planet Earth
NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology

Year 2, Semester 1	
NQB302	Earth Surface Systems
NQB321	Ecology
SCB111	Chemistry 1

Year 2, Semester 2	
NQB403	Soils and the Environment
NQB421	Experimental Design
NQB601	Sustainable Environmental Management

Year 3, Semester 1	
NQB501	Environmental Modelling
NQB502	Field Methods in Natural Resource Sciences
NQB503	Spatial Analysis of Environmental Systems
	Science Elective

Course structure - Major in Geoscience

Year 1, Semester 1	
SCB110	Science Concepts and Global Systems
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2	
NQB201	Planet Earth
NQB202	History of Life on Earth
SCB222	Exploration of the Universe

Year 2, Semester 1	
NQB311	Mineralogy
NQB314	Sedimentary Geology
SCB111	Chemistry 1

Year 2, Semester 2	
NQB411	Petrology of Igneous and Metamorphic Rocks
NQB412	Structural Geology and Field Methods
NQB614	Groundwater Systems

Year 3, Semester 1	
NQB502	Field Methods in Natural Resource Sciences
NQB512	Economic Geology
NQB513	Geophysics
	Science Elective

Course structure - Major in Mathematics (WITH Maths C)

Year 1, Semester 1	
MAB101	Statistical Data Analysis 1
MAB121	Calculus and Differential Equations
SCB110	Science Concepts and Global Systems

Year 1, Semester 2	
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
SCB111	Chemistry 1

Year 2, Semester 1	
MAB220	Computational Mathematics 1
MAB311	Advanced Calculus
MAB315	Operations Research 2

Year 2, Semester 2

MAB625	Operations Research 3B
	Plus either
MAB414	Applied Statistics 2
	Or
MAB422	Mathematical Modelling
	Plus select ONE unit from the following:
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

SCB112	Cellular Basis of Life
	Plus select THREE units from the following:
MAB521	Applied Mathematics 3
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB672	Advanced Mathematical Modelling

Course structure - Major in Mathematics (WITHOUT Maths C)

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems

Year 1, Semester 2

MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1

Year 2, Semester 1

MAB220	Computational Mathematics 1
MAB311	Advanced Calculus
MAB315	Operations Research 2

Year 2, Semester 2

MAB625	Operations Research 3B
	Plus either
MAB414	Applied Statistics 2
	Or
MAB422	Mathematical Modelling
	Plus select ONE unit from the following:
MAB313	Mathematics of Finance
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation

Year 3, Semester 1

	Select ONE unit from the following:
SCB110	Science Concepts and Global Systems
SCB112	Cellular Basis of Life
	Plus select THREE units from the following:
MAB521	Applied Mathematics 3
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB672	Advanced Mathematical Modelling

Course structure - Major in Microbiology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB486	Clinical Microbiology 1
LQB687	Applied Microbiology 2: Food and Quality Assurance

Year 3, Semester 1

LQB586	Clinical Microbiology 2
LQB587	Applied Microbiology 1: Water, Air and Soil
	Plus either
LQB582	Biomedical Research Technologies
	Or
LQB583	Genetic Research Technology
	Science Elective

Course structure - Major in Physics

Year 1, Semester 1

SCB110	Science Concepts and Global Systems

SCB111	Chemistry 1
	Plus either
MAB120	Algebra and Calculus
	Or
MAB121	Calculus and Differential Equations
	NOTE: Students without Senior Mathematics C must take MAB100 in Semester 1 and MAB111 in Semester 2

Year 1, Semester 2	
MAB122	Algebra and Analytic Geometry
PQB250	Mechanics and Electromagnetism
	Plus either
MAB121	Calculus and Differential Equations
	Or
PQB251	Waves and Optics

Year 2, Semester 1	
MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases
SCB112	Cellular Basis of Life

Year 2, Semester 2	
PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation
PQB650	Advanced Theoretical Physics

Year 3, Semester 1	
PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques
PQB651	Experimental Physics
	Science elective for Physics major (See list)

Course structure - Science Elective for Physics Major

	Students must select units that they have not already taken, and for which they have the appropriate prerequisites:
MAB101	Statistical Data Analysis 1
MAB220	Computational Mathematics 1
MAB312	Linear Algebra
NQB302	Earth Surface Systems
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: 2010
Admissions: No
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $3,200 (indicative) per semester
International Fees (indicative): 2010: $11,500 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R.Mahalinga-Iyer
Discipline coordinator: Dr Jasmine Banks
Campus: Gardens Point

DISCONTINUATION

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

Special Note

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

Further Information

For further information about this course, please contact:

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

Full-time Course structure - Students who commenced in 2008

Year 1 - Semester 1	
BEB100	Introducing Professional Learning
INB104	Building IT Systems
	OR (prior to 2008)
ITB001	Problem Solving and Programming
MAB180	Engineering Mathematics 1B
	OR
MAB131	Engineering Mathematics 1A
PCB136	Engineering Physics 1C

Year 1 - Semester 2	
BEB200	Introducing Sustainability
ENB103	Electrical Engineering
INB270	Programming
	OR (prior to 2008)
ITB003	Object Oriented Programming
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B

Year 2 - Semester 1	
ENB240	Introduction To Electronics
ENB242	Introduction To Telecommunications
INB251	Networks
MAB233	Engineering Mathematics 3

Year 2 - Semester 2	
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
INB210	Databases
INB271	The Web
	OR
INB272	Interaction Design

Year 3 - Semester 1	
ENB350	Real-time Computer-based Systems
ENB354	Introduction To Systems Design
INB370	Software Development
INB371	Data Structures and Algorithms

Year 3 - Semester 2	
ENB352	Communication Environments For Embedded Systems
ENB355	Advanced Systems Design
INB301	The Business of IT
INB372	Agile Software Development

Year 4 - Semester 1	
INB255	Security
INB350	Internet Protocols and Services
INB309-1	Major Project
	OR
BEB801	Project 1
	Elective

Year 4 - Semester 2	
BEB701	Work Integrated Learning 1
INB309-2	Major Project
	OR
BEB802	Project 2
	Elective
	Elective

Electives

Students are required to undertake 3 electives as follows: 2 from Electrical Engineering and 1 from Information Technology.

Electrical Engineering Electives (2 to be selected):

Any 3rd or 4th year electrical ENB unit approved by the course coordinator.

Information Technology Electives (1 to be selected):

INB373	Web Application Development
INB365	Systems Programming
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques

Or any 3rd or 4th year IT unit approved by the course coordinator.

Full-time Course structure - Students who commenced in 2007

Year 1 - Semester 1

BEB100	Introducing Professional Learning
INB104	Building IT Systems
	OR (prior to 2008)
ITB001	Problem Solving and Programming
MAB180	Engineering Mathematics 1B
	OR
MAB131	Engineering Mathematics 1A
PCB136	Engineering Physics 1C

Year 1 - Semester 2

BEB200	Introducing Sustainability
ENB103	Electrical Engineering
INB270	Programming
	OR (prior to 2008)
ITB003	Object Oriented Programming
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B

Year 2 - Semester 1

ENB240	Introduction To Electronics
ENB242	Introduction To Telecommunications
INB270	Programming
	OR (prior to 2008)
ITB004	Database Systems
MAB233	Engineering Mathematics 3

Year 2 - Semester 2

ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
INB251	Networks
	OR (prior to 2008)
ITB006	Networks
ITB008	Modelling Analysis and Design

Year 3 - Semester 1

ENB350	Real-time Computer-based Systems
ENB354	Introduction To Systems Design
INB370	Software Development
	OR (prior to 2008)
ITB749	Scientific Programming
INB371	Data Structures and Algorithms
	OR (prior to 2008)
ITB702	Algorithms and Data Structures

Year 3 - Semester 2

ENB352	Communication Environments For Embedded Systems
ENB355	Advanced Systems Design
INB301	The Business of IT
	OR (prior to 2008)
ITB009	Core Project Management
INB372	Agile Software Development
	OR (prior to 2008)
ITB712	Software Engineering Principles

Year 4 - Semester 1

INB255	Security
	OR (prior to 2008)
ITB730	Information Security Fundamentals
INB350	Internet Protocols and Services
	OR (prior to 2008)
ITB720	Internet Protocols and Services
INB309-1	Major Project
	OR
BEB801	Project 1
	Elective

Year 4 - Semester 2

BEB701	Work Integrated Learning 1
INB309-2	Major Project
	OR
BEB802	Project 2
	Elective
	Elective

Electives

Students are required to undertake 3 electives as follows: 2 from Electrical Engineering and 1 from Information Technology.

Electrical Engineering Electives (2 to be selected):

Any 3rd or 4th year electrical ENB unit approved by the course coordinator.

	Information Technology Electives (1 to be selected):
INB373	Web Application Development
INB365	Systems Programming
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
	Or any 3rd or 4th year IT unit approved by the course coordinator.

Full-time Course structure - Students who commenced in 2006

Year 1 - Semester 1	
INB104	Building IT Systems
	OR (prior to 2008)
ITB001	Problem Solving and Programming
INB251	Networks
	OR (prior to 2008)
ITB006	Networks
MAB180	Engineering Mathematics 1B
	OR
MAB131	Engineering Mathematics 1A
PCB136	Engineering Physics 1C

Year 1 - Semester 2	
BEB100	Introducing Professional Learning
ENB103	Electrical Engineering
INB270	Programming
	OR (prior to 2008)
ITB003	Object Oriented Programming
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B

Year 2 - Semester 1	
ENB240	Introduction To Electronics
ENB242	Introduction To Telecommunications
INB270	Programming
	OR (prior to 2008)
ITB004	Database Systems
MAB233	Engineering Mathematics 3

Year 2 - Semester 2	
BEB200	Introducing Sustainability
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
INB271	The Web
	OR (prior to 2008)
ITB007	Web Development

Year 3 - Semester 1	
ENB350	Real-time Computer-based Systems
ENB354	Introduction To Systems Design
INB370	Software Development
	OR (prior to 2008)
ITB749	Scientific Programming
INB372	Agile Software Development
	OR (prior to 2008)
ITB712	Software Engineering Principles

Year 3 - Semester 2	
ENB352	Communication Environments For Embedded Systems
ENB355	Advanced Systems Design
INB301	The Business of IT
	OR (prior to 2008)
ITB009	Core Project Management
	Elective

Year 4 - Semester 1	
INB255	Security
	OR (prior to 2008)
ITB730	Information Security Fundamentals
INB350	Internet Protocols and Services
	OR (prior to 2008)
ITB720	Internet Protocols and Services
INB309-1	Major Project
	OR
BEB801	Project 1
	Elective

Year 4 - Semester 2	
BEB701	Work Integrated Learning 1
INB309-2	Major Project
	OR
BEB802	Project 2
	Elective
	Elective

Electives	
	Students are required to undertake 4 electives as follows: 2 from Electrical Engineering and 2 from Information Technology.
	Electrical Engineering Electives (2 to be selected):
	Any 3rd or 4th year electrical ENB unit approved by the course coordinator.
	Information Technology Electives (2 to be selected):
INB373	Web Application Development
INB365	Systems Programming
INB381	Modelling and Animation Techniques

INB382 Real Time Rendering Techniques

Or any 3rd or 4th year IT unit approved by the course coordinator.

Bachelor of Applied Science/Bachelor of Information Technology (IX26)

Year offered: 2010
Admissions: No
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $3,370 (indicative) per semester
International Fees (indicative): 2010: $11,500 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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

Network Systems Major

Compulsory Units	
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
INB255	Security

Electives	
INB312	Enterprise Systems Applications
INB365	Systems Programming
INB353	Wireless and Mobile Networks
INB355	Cryptology and Protocols

Information Systems Major

Compulsory Units	
INB311	Enterprise Systems
INB340	Database Design
INB220	Business Analysis

IS Elective Units	
INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB124	Information Systems Development
INB221	Technology Management

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 is only to be used as a prereq for INB381
MAB281	Mathematics for Computer Graphics

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

Course Structure 2009	
	From semester one, 2009 this course will not be available for commencing students. IX26 will only be available for continuing students. New students - please refer to IX55. Please contact enquiry.scitech@qut.edu.au for any enquiries.

Year 1, Semester 1	
INB103	Industry Insights
INB250	Systems Architecture
	Science Core Unit
	Science Core Unit

Year 1, Semester 2	
INB210	Databases
INB251	Networks
	Science Major Unit
	Science Major Unit

Year 2, Semester 1	
INB104	Building IT Systems

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

Science Major Unit

Science Major Unit

Year 2, Semester 2

INB270	Programming
INB271	The Web
	Science Major Unit
	Science Major Unit

Year 3, Semester 1

	IT Major Unit
	IT Major Unit
	Science Major Unit
	Science Major Unit

Year 3, Semester 2

INB301	The Business of IT
	IT Major Unit
	Science Major Unit
	Science Major Unit

Year 4, Semester 1

INB302	Capstone Project
	IT Major Unit
	Science Major Unit
	Science Major Unit

Year 4, Semester 2

	IT Major Unit
	IT Major Unit
	Science Major Unit
	Science Major Unit

IX26 - Bachelor of Applied Science/Bachelor of Information Technology Course Structure 2008

Year 1, Semester 1

ITB002	IT Professional Studies
ITB005	Systems Architecture
	Science Core Unit
	Science Core Unit

Year 1, Semester 2

ITB004	Database Systems
ITB006	Networks
	Science Core Unit
	Science Core Unit

Year 2, Semester 1

ITB001	Problem Solving and Programming
ITB008	Modelling Analysis and Design
	Science Core Unit
	Science Major Unit

Year 2, Semester 2

ITB003	Object Oriented Programming
ITB007	Web Development
	Science Core Unit
	Science Major Unit

Year 3, Semester 1

	IT Major Unit
	IT Major Unit
	Science Major Unit
	Science Major Unit

Year 3, Semester 2

ITB009	Core Project Management
	IT Major Unit
	Science Major Unit
	Science Major Unit

Year 4, Semester 1

ITB010	Core Project Implementation
	IT Major Unit
	Science Major Unit
	Science Major Unit

Year 4, Semester 2

	IT Major Unit
	IT Major Unit
	Science Major Unit
	Science Major Unit

IX26 - Bachelor of Applied Science/Bachelor of Information Technology Course Structure 2007

Year 1, Semester 1

ITB002	IT Professional Studies
ITB005	Systems Architecture
	Science Core Unit
	Science Core Unit

Year 1, Semester 2

ITB004	Database Systems
ITB006	Networks
	Science Core Unit
	Science Core Unit

Year 2, Semester 1

ITB001	Problem Solving and Programming
ITB008	Modelling Analysis and Design

	Science Core Unit
	Science Major Unit

Year 2, Semester 2	
ITB003	Object Oriented Programming
ITB007	Web Development
	Science Core Unit
	Science Major Unit

Year 3, Semester 1	
	IT Major Unit
	IT Major Unit
	Science Major Unit
	Science Major Unit

Year 3, Semester 2	
ITB009	Core Project Initiation
	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: 2010
Admissions: No
CRICOS code: 059227E
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $3,100 (indicative) per semester
International Fees (indicative): 2010: $10,750 (indicative) per semester
QTAC code: 409872
Past rank cut-off: 74
Past OP cut-off: 13
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

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 regarding this course, please contact the following:

Science and Technology Coordinator
Mr Richard Thomas
Phone: +61 073138 2782
Email: enquiry.scitech@qut.edu.au

Creative Industries Coordinator
Phone +61 7 3138 8114
Fax +61 7 3138 8116
Email: creativeindustries@qut.edu.au

Overview for students who commenced in 2008

Year 1, Semester 1	
INB103	Industry Insights
INB250	Systems Architecture
KKB101	Creative Industries: People and Practices
SELECT	A Creative Industries Discipline Unit

Year 1, Semester 2	
INB210	Databases
INB251	Networks
KKB102	Creative Industries: Making Connections
SELECT	A Creative Industries Discipline Unit

Year 2, Semester 1	
INB104	Building IT Systems
	Choose one unit from: Intermediate Level Elective list. This choice will replace ITB008 from 2009 course summary.
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Discipline Unit

Year 2, Semester 2	
INB270	Programming
INB271	The Web
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Discipline Unit

Year 3, Semester 1	
	IT Major Unit
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Discipline Unit

Year 3, Semester 2	
INB301	The Business of IT
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Discipline Unit

Year 4, Semester 1	
INB302	Capstone Project
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Unit Option

Year 4, Semester 2	
	IT Major Unit
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Unit Option

Communication Design course structure for students who commenced in 2008

Year 1, Semester 1	
KKB101	Creative Industries: People and Practices
KIB101	Visual Communication

Year 1, Semester 2	
KKB102	Creative Industries: Making Connections
KIB102	Visual Interactions

Year 2, Semester 1	
SELECT	A Creative Industries Unit Option
KIB103	Introduction to Web Design and Development

Year 2, Semester 2	
SELECT	A Creative Industries Unit Option
KIB104	Digital Media

Year 3, Semester 1	
KIB214	Design for Interactive Media
SELECT	Either KIB230 or KKB216:
KIB230	Interface and Information Design
KKB216	Graphical Development Environments for Media Interaction

Year 3, Semester 2	
KIB216	Advanced Web Design
SELECT	Either KIB205 or KVB204:
KIB205	Programming for Visual Designers and Artists
KVB204	Graphic Design

Year 4, Semester 1	
KIB315	Contemporary Issues in Digital Media
SELECT	Either KIB309 or KIB335:
KIB309	Embodied Interactions
KIB335	Typography and Illustration

Year 4, Semester 2	
KIB322	Design Project
SELECT	Either KIB314 or KKB338:
KIB314	Tangible Media
KIB338	Print Media

Interdisciplinary course structure for students who

commenced in 2008

Year 1, Semester 1	
KKB101	Creative Industries: People and Practices
SELECT	Either KPB101 or KVB104:
KPB101	Introduction to Film, TV and New Media Production
KVB104	Photomedia and Artistic Practice

Year 1, Semester 2	
KKB102	Creative Industries: Making Connections
KCB103	Strategic Speech Communication

Year 2, Semester 1	
KKB221	Approaching Interdisciplinarity
SELECT	Creative Industries co-major: First Unit

Year 2, Semester 2	
KKB222	Interdisciplinarity in Practice
SELECT	Creative Industries co-major: Second Unit

Year 3, Semester 1	
SELECT	Creative Industries co-major: Third Unit
SELECT	Creative Industries co-major: Fourth Unit

Year 3, Semester 2	
SELECT	Creative Industries co-major: Fifth Unit
SELECT	Creative Industries co-major: Sixth Unit

Year 4, Semester 1	
SELECT	Transitions to New Professional Environment Unit
SELECT	Creative Industries co-major: Seventh Unit

Year 4, Semester 2	
SELECT	Transitions to New Professional Environment Unit
SELECT	Creative Industries co-major: Eighth Unit

Music course structure for students who commenced in 2008

Year 1, Semester 1	
KKB101	Creative Industries: People and Practices
SELECT	Either KMB003 or KMB005-1:
KMB003	Sex Drugs Rock 'n' roll
KMB005-1	Group Music

Year 1, Semester 2	
KKB102	Creative Industries: Making Connections
KMB105	Music and Sound Technology
SELECT	KMB005-2 if KMB005-1 was completed in semester 1:
KMB005-2	Group Music

Year 2, Semester 1	
KMB130	Core Musicianship 1
SELECT	Either KMB110 or KMB120:
KMB110	Music Production 1
KMB120	Music Performance 1

Year 2, Semester 2	
KMB131	Core Musicianship 2
SELECT	Either KMB111 or KMB121:
KMB111	Music Production 2
KMB121	Music Performance 2

Year 3, Semester 1	
SELECT	A Music Unit Option (List A)
KMB214-1	Music and Sound: Principal Study A

Year 3, Semester 2	
SELECT	A Music Unit Option (List B)
KMB214-2	Music and Sound: Principal Study A

Year 4, Semester 1	
SELECT	A Creative Industries Unit Option
SELECT	A Music Unit Option (List A)

Year 4, Semester 2	
SELECT	A Creative Industries Unit Option
SELECT	A Music Unit Option (List B)

LIST A: Music Unit Options	
KMB003	Sex Drugs Rock 'n' roll
KMB004	World Music
KMB108	Sound Recording and Acoustics
KMB113	Multi-Instrumental Music A
KMB119	Music and Sound Production 1
KMB122	Music and Sound Concepts 1
KMB200	Music Scenes and Subcultures
KMB206	Jazz and Popular Musicianship
KMB207	Cross Cultural Musicianship
KMB209	Conducting
KMB213	Multi-Instrumental Music B

LIST B: Music Unit Options	
KMB002	Music and Spirituality
KMB106	Music and Sound for Multimedia
KMB107	Sound, Image, Text
KMB108	Sound Recording and Acoustics
KMB129	Music and Sound Production 2
KMB132	Music and Sound Concepts 2
KMB205	Sound Media Musicianship
KMB208	Contemporary Art Music Musicianship
KMB212	Arranging

KMB301	The Music Industry
	*Please note: KMB106 will be discontinued at the end of 2010 and replaced by KMB252.

Sound Design course structure for students who commenced in 2008

Year 1, Semester 1	
KKB101	Creative Industries: People and Practices
KMB105	Music and Sound Technology

Year 1, Semester 2	
KKB102	Creative Industries: Making Connections
KMB106	Music and Sound for Multimedia
	*Please note: KMB106 will be discontinued at the end of 2010 and replaced by KMB252.

Year 2, Semester 1	
KMB104	Music and Sound Skills
KMB110	Music Production 1

Year 2, Semester 2	
KMB107	Sound, Image, Text
KMB111	Music Production 2

Year 3, Semester 1	
SELECT	A Sound Design Unit Option (List A)
KMB214-1	Music and Sound: Principal Study A

Year 3, Semester 2	
KMB205	Sound Media Musicianship
KMB214-2	Music and Sound: Principal Study A

Year 4, Semester 1	
SELECT	A Creative Industries Unit Option
SELECT	A Creative Industries Unit Option

Year 4, Semester 2	
KMB301	The Music Industry
SELECT	A Sound Design Unit Option (List B)

LIST A: Sound Design Unit Options	
KIB103	Introduction to Web Design and Development
KIB108	Animation History and Practices
KMB003	Sex Drugs Rock 'n' roll
KMB004	World Music

LIST B: Sound Design Unit Options	
KCB202	New Media 2: Applications and Implications
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	Systems Architecture
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	Capstone Project
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Unit Option

Year 4, Semester 2	
	IT Major Unit
	IT Major Unit
SELECT	A Creative Industries Discipline Unit
SELECT	A Creative Industries Unit Option

Communication Design course structure for students who commenced in 2007

Year 1, Semester 1	
SELECT	A Creative Industries Core Unit
KIB101	Visual Communication

Year 1, Semester 2	
SELECT	A Creative Industries Core Unit
KIB102	Visual Interactions

Year 2, Semester 1	
SELECT	A Creative Industries Unit Option
KIB103	Introduction to Web Design and Development

Year 2, Semester 2	
SELECT	A Creative Industries Unit Option
KIB104	Digital Media

Year 3, Semester 1	
KIB214	Design for Interactive Media
SELECT	Either KIB230 or KKB216:
KIB230	Interface and Information Design
KKB216	Graphical Development Environments for Media Interaction

Year 3, Semester 2	
KIB216	Advanced Web Design
SELECT	Either KIB205 or KVB204:
KIB205	Programming for Visual Designers and Artists
KVB204	Graphic Design

Year 4, Semester 1	
KIB315	Contemporary Issues in Digital Media
SELECT	Either KIB309 or KIB335:
KIB309	Embodied Interactions
KIB335	Typography and Illustration

Year 4, Semester 2	
KIB322	Design Project
SELECT	Either KIB314 or KKB338:
KIB314	Tangible Media
KIB338	Print Media

Interdisciplinary course structure for students who commenced in 2007

Year 1, Semester 1	
SELECT	A Creative Industries Core Unit
SELECT	Sub-Major 1: First Unit

Year 1, Semester 2	
SELECT	A Creative Industries Core Unit
SELECT	Sub-Major 1: Second Unit

Year 2, Semester 1	
SELECT	Sub-Major 1: Third Unit
SELECT	Sub-Major 2: First Unit

Year 2, Semester 2	
SELECT	Sub-Major 1: Fourth Unit
SELECT	Sub-Major 2: Second Unit

Year 3, Semester 1	
SELECT	Sub-Major 1: Fifth Unit
SELECT	Sub-Major 2: Third Unit

Year 3, Semester 2	
SELECT	Sub-Major 1: Sixth Unit
SELECT	Sub-Major 2: Fourth Unit

Year 4, Semester 1	
SELECT	A Creative Industries Unit Option
SELECT	Sub-Major 2: Fifth Unit

Year 4, Semester 2	
SELECT	A Creative Industries Unit Option
SELECT	Sub-Major 2: Sixth Unit

Please note: At least eight of your sub-major units must be K-coded units

Music course structure for students who commenced in 2007

Year 1, Semester 1	
SELECT	A Creative Industries Core Unit
SELECT	Either KMB003 or KMB005-1:
KMB003	Sex Drugs Rock 'n' roll
KMB005-1	Group Music

Year 1, Semester 2	
SELECT	A Creative Industries Core Unit
KMB105	Music and Sound Technology
SELECT	KMB005-2 if KMB005-1 was completed in semester 1:
KMB005-2	Group Music

Year 2, Semester 1	
KMB130	Core Musicianship 1
SELECT	Either KMB110 or KMB120:
KMB110	Music Production 1
KMB120	Music Performance 1

Year 2, Semester 2	
KMB131	Core Musicianship 2
SELECT	Either KMB111 or KMB121:
KMB111	Music Production 2

KMB121	Music Performance 2

Year 3, Semester 1

SELECT	A Music Unit Option (List A)
KMB214-1	Music and Sound: Principal Study A

Year 3, Semester 2

SELECT	A Music Unit Option (List B)
KMB214-2	Music and Sound: Principal Study A

Year 4, Semester 1

SELECT	A Creative Industries Unit Option
SELECT	A Music Unit Option (List A)

Year 4, Semester 2

SELECT	A Creative Industries Unit Option
SELECT	A Music Unit Option (List B)

LIST A: Music Unit Options

KMB003	Sex Drugs Rock 'n' roll
KMB004	World Music
KMB108	Sound Recording and Acoustics
KMB113	Multi-Instrumental Music A
KMB119	Music and Sound Production 1
KMB122	Music and Sound Concepts 1
KMB200	Music Scenes and Subcultures
KMB206	Jazz and Popular Musicianship
KMB207	Cross Cultural Musicianship
KMB209	Conducting
KMB213	Multi-Instrumental Music B

LIST B: Music Unit Options

KMB002	Music and Spirituality
KMB106	Music and Sound for Multimedia
KMB107	Sound, Image, Text
KMB108	Sound Recording and Acoustics
KMB129	Music and Sound Production 2
KMB132	Music and Sound Concepts 2
KMB205	Sound Media Musicianship
KMB208	Contemporary Art Music Musicianship
KMB212	Arranging
KMB301	The Music Industry

*Please note: KMB106 will be discontinued at the end of 2010 and replaced by KMB252.

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

KCB202	New Media 2: Applications and Implications
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

* The second majors for 2010 are subject to final approval.

Please refer to the following study sequences to plan your program. You must complete 96 credit points (normally eight 12 credit point subjects) from the specified units to achieve a second major, following semester of offer and unit requisites (where applicable) to determine order of enrolment. Any unit(s) that appear in these second majors and are also mandatory

elsewhere in your course can not contribute towards the completion of these second majors. Any unit(s) that appear in multiple second majors can only contribute towards the completion of one of these second majors.

Advertising

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

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
AMB220	Advertising Theory and Practice
AMB318	Advertising Copywriting
AMB319	Media Planning
AMB320	Advertising Management
AMB330	Advertising Planning Portfolio
BSB126	Marketing

Note: AMB221 and AMB339 are permitted to count towards the completion of this unit set if completed in 2009 or earlier.

Animation

Description: This second major provides you with important skills in the skills, principles, concepts and history of animation. Beginning with drawing for animation and an exploration of the history of the animation industry and its practices, you will then apply this knowledge to current and emerging fields within the animation industry including motion graphics, 3D modelling and animation, real-time 3D and character animation. Through the creation of an interactive virtual environment you will be given the opportunity to refine your skills and expand your knowledge of the 3D animation industry.

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

KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KIB203	Introduction to 3D Computer Graphics
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 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
DEB102	Introducing Design History
KVB102	Modernism
KVB103	Australian Art
KVB108	Contemporary Asian Visual Culture
KVB211	Post 1945 Art
KVB212	Australian Art, Architecture and Design
KVB304	Contemporary Art Issues
KVB306	Video Art and Culture

Creative and Professional Writing

Description: The aim of this second major is to prepare students to graduate with adequate skills and knowledge in the area of creative and professional writing; to provide a thorough grounding in a variety of genres that include fiction, creative non-fiction, media writing and corporate writing and editing, thereby equipping graduates with the versatility required of professional writers; to enhance the critical, analytical and peer-reviewing skills of students; to provide and understanding of creative writing in its social and generic contexts.

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

KWB101	Introduction to Creative Writing
KWB102	Media Writing
KWB103	Persuasive Writing
KWB104	Creative Writing: The Short Story
KWB106	Corporate Writing and Editing
KWB107	Creative Non-Fiction
KWB206	Youth and Children's Writing
KWB207	Great Books: Creative Writing Classics
KWB211	Stylistics and Poetics
KWB303	Writing and Publishing Industry
KWB313	Novel and Memoir

Dance Studies

Description: This second major aims to provide a broad grounding in practical and theoretical aspects of dance. You will gain skills in contemporary dance, ballet, commercially driven genres, choreography and critical thinking and writing together with an understanding of the social and historical context of ballet, contemporary dance, and popular and world dance.

Assumed Knowledge: Previously acquired knowledge or skill IS required for you to undertake this second major. It is essential that you be physically able, fit and have basic knowledge in a dance technique, either ballet, jazz or contemporary dance.

Instructions: Of the eight units you need to complete, you must select at least two units coded 200 or above.

KDB103	Dance Technique Studies 1
KDB104	Dance Technique Studies 2
KDB105	Architecture of the Body
KDB106	Dance Analysis
KDB107	Choreographic Studies 1
KDB108	World Dance
KDB109	Funk, Tap and all that Jazz
KDB110	Deconstructing Dance in History
KDB204	Australian Dance
KDB205	Dance in Education
KDB225	Music Theatre Skills

*Note: KDB205 not offered in 2010

*Please note that the Dance Studies major in the Bachelor of Creative Industries is NOT a pathway to secondary dance teaching

Digital Media

Description: Online and interactive technologies now dominate creative and professional life. This second major provides you with the opportunity to develop websites, multimedia projects, wikis and blogs, as well as allowing you to understand the guiding principals behind these new modes of communication and creative practice.

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

KCB101	Introduction to Media and Communication: Texts
SELECT:	Either KCB102 or KJB101:
KCB102	Media Myth Busting 1
KJB101	Digital Journalism
SELECT	Either KCB104 or KPB110:
KCB104	Introduction to Media and Communications: Industries
KPB110	The Movie, TV & New Media Business
KCB201	New Media 1: Information and Knowledge
KCB202	New Media 2: Applications and Implications
KCB203	Consumption Matters: Consumer Cultures and Identity
KIB101	Visual Communication
KIB103	Introduction to Web Design and Development
KVB306	Video Art and Culture

Drama

Description: The second major offers a balance of performance theory and practice. It is designed as a learning sequence, beginning with introductory concepts and practices, through intermediate and on to advanced learning. Underpinning the second major is a twin focus on contemporary performance-making and events management. Both of these areas are balanced by studies in theatre history and theory. Core topics include acting; directing; twentieth-century performance theory and practice; and events management.

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

KDB225	Music Theatre Skills
KTB101	20th Century Performance
KTB103	Performing Skills 1: Character and Scene
KTB104	Performance Innovation
KTB106	Performing Skills 2: Style and Form
KTB204	Understanding Performance
KTB207	Staging Australia
KTB210	Creative Industries Management
KTB211	Creative Industries Events and Festivals
KTB305	The Entrepreneurial Artist
KTB306	Directing for Performance Events and Festivals

Entertainment Industries

Description: On completion of this second major, you will be able to demonstrate the knowledge and skills required to pursue a career in the Entertainment Industry. These include an understanding of the characteristics of mainstream commercial culture that appeal to large audiences; an understanding both of business and creative processes; an ability to balance the two of these; and an awareness of historical and current Entertainment content and business.

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

AMB207	Entertainment Marketing
BSB126	Marketing
KXB101	Introduction to Entertainment
KXB102	Global Entertainment
KXB201	Entertainment Practice: Balancing Creativity and Business
KXB301	Entertainment Industries Map
LWS008	Entertainment Law
SELECT	One of the following units:
AMB200	Consumer Behaviour
KCB301	Media Audiences
KPB101	Introduction to Film, TV and New Media Production
KWB102	Media Writing

Note: KXB301 will first be offered in 2012. LWS008 will first be offered in 2011.

Entrepreneurship

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

AMB251	Innovation and Brand Management
BSB115	Management

BSB126	Marketing
MGB200	Leading Organisations
MGB223	Entrepreneurship and Innovation
MGB324	Managing Business Growth
SELECT	Two units from the Advanced AMB Unit Options list OR two units from the Advanced MGB Unit Options list
	Advanced AMB Unit Options (AMB240 is mandatory):
AMB240	Marketing Planning and Management
AMB336	International Marketing
AMB340	Services Marketing
	Advanced MGB Unit Options (MGB310 is mandatory):
MGB210	Managing Operations
MGB225	Intercultural Communication and Negotiation Skills
MGB310	Sustainability in A Changing Environment
	Note: AMB230, EFB210, MGB207, MGB216, MGB222 and MGB335 are permitted to count towards the completion of this unit set if completed in 2009 or earlier.

Fashion

Description: This second major has been designed to offer a mix of theoretical and practical units. The theory units will develop your knowledge and understanding of the history, industry and consumption of fashion and will introduce you to the critical legal issues surrounding the production and distribution of fashion. The practical units provide you with a variety of options to develop fashion related skills focusing on textile design, portfolio development and fashion journalism.

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

KCB203	Consumption Matters: Consumer Cultures and Identity
KFB103	Introduction to Fashion
KFB106	Unspeakable Beauty: A History of Fashion and Style
KFB107	Drawing For Fashion
KFB205	Fashion and Style Journalism
KFB206	Fashion and Modernity
KFB207	Contemporary Fashion
KFB208	Fashion Portfolio
KFB209	Ragtrade: Wholesaling Fashion
KFB304	Fashion, Law and the Real World
KVB213	Graphic Investigation

Film, Television and Screen

Description: The aim of this second major is to provide students with a range of understandings in the theory and practice of film, television and screen. This study area aims to enhance creative, technical and organisational abilities as well as building story telling and communication skills.

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

KPB101	Introduction to Film, TV and New Media Production
KPB104	Film and Television Production Resource Management
KPB105	Narrative Production
KPB109	Film and TV History
KPB110	The Movie, TV & New Media Business
KPB112	TV and Film Genres
KPB113	TV and Film Text Analysis
KPB202	Film and Television Business Skills: Entrepreneurship and Investment
KPB205	Documentary Theory and Practice
KPB206	International Cinema
KPB212	Australian Film and TV
KPB303	Critical Thinking About Television
KPB313	How to be a Producer
	*Note: KPB203 is permitted to count towards this major if completed in 2010 or earlier.

Game 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.

Integrated Marketing Communication

AMB202	Integrated Marketing Communication
AMB220	Advertising Theory and Practice
AMB263	Introduction To Public Relations
AMB331	Direct Marketing

AMB350	Sales and Customer Relationship Management
BSB126	Marketing
SELECT	Two units from AMB208, AMB230 or AMB261:
AMB208	Events Marketing
AMB230	Digital Promotions
AMB261	Media Relations and Publicity

Note: AMB240 and AMB260 are permitted to count towards the completion of this unit set if completed in 2009 or earlier.

Interactive and Visual Design

Description: This second major will provide you with the design concepts and principles, practical skills and working methods needed by a contemporary designer of visual and interactive media. You will learn how to design effectively for print and electronic media, Web and mobile media and computer games and become equipped with a versatile set of design practices to support you to enter careers in marketing, web design, electronic publishing, interaction design and the creative aspects of game design.

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

KIB101	Visual Communication
KIB102	Visual Interactions
KIB103	Introduction to Web Design and Development
KIB104	Digital Media
KIB214	Design for Interactive Media
KIB216	Advanced Web Design
KIB230	Interface and Information Design
KIB315	Contemporary Issues in Digital Media
KVB105	Drawing for Design
KVB204	Graphic Design

Journalism, Media and Communication

Description: This second major offers you a range of options to develop an understanding of the parameters of the journalism and professional communication fields. You can choose a mix of units to suit your career aspirations. If you choose to focus more on the Journalism (KJB) units, the second major will introduce you to a range of journalism writing styles and offers an insight into some specialist areas of reporting. If you choose to focus more on the Media and Communication (KCB) units, it has been designed to enable you to develop the skills and knowledge to prepare media material for organisations that wish to build, and maintain, a media profile.

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

SELECT	Either KCB102 or KJB101:
KCB102	Media Myth Busting 1
KJB101	Digital Journalism
KJB120	Newswriting
KCB104	Introduction to 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	Managing Communication Resources
KJB337	Public Affairs Reporting

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
KWB308	Wonderlands: Literature and Culture in the 19th Century
KWB309	Popular Fictions, Popular Culture

Marketing

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research
AMB202	Integrated Marketing Communication
AMB240	Marketing Planning and Management
AMB335	E-marketing Strategies
AMB336	International Marketing
AMB340	Services Marketing
BSB126	Marketing

Note: AMB359 is permitted to count towards the completion of this unit set if completed in 2009 or earlier.

Mathematics

Description: This second major aims to provide you with powerful tools for the analysis of today's complex world and give an insight into many real-world problems of significant importance.

Assumed Knowledge: Sound Achievement in Senior Maths B

Instructions: Select 96 credit points from the following list:

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
MAB281	Mathematics for Computer Graphics
MAB311	Advanced Calculus
MAB312	Linear Algebra
MAB313	Mathematics of Finance
MAB314	Statistical Modelling 2
MAB422	Mathematical Modelling
MAB480	Introduction to Scientific Computation

Music

Description: This second major aims to impart a broad understanding of music practice in contemporary social, cultural and economic contexts. It aims to provide students with a combination of practical and theoretical skills to support a career in music within administrative, business, or organisational areas.

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

KDB225	Music Theatre Skills
KKB345	Creative Industries Project 1
KMB003	Sex Drugs Rock 'n' roll
KMB004	World Music
KMB107	Sound, Image, Text
KMB119	Music and Sound Production 1
KMB122	Music and Sound Concepts 1
KMB129	Music and Sound Production 2
KMB132	Music and Sound Concepts 2
KMB200	Music Scenes and Subcultures
KMB301	The Music Industry

* KMB200 will be offered from 2011.

Online Environments

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

INB104	Building IT Systems

Choose 3 of the following units (INB122 and INB210 cannot both be taken)

INB122	Organisational Databases
INB210	Databases
INB270	Programming
INB271	The Web
INB272	Interaction Design

Choose 4 of the following INB 300-level units

INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB340	Database Design
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications
INB370	Software Development
INB373	Web Application Development

Public Relations

AMB201	Marketing and Audience Research
AMB202	Integrated Marketing Communication
AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques
AMB372	Public Relations Planning
AMB373	Corporate Communication
AMB374	Global Public Relations Cases
BSB126	Marketing

Note: AMB261, AMB262, AMB379 are permitted to count towards the completion of this unit set if completed in 2009 or earlier.

Creative Industries Sub-Majors

Art and Visual Culture (KAV)

Instructions: Complete any six of the below units.

KVB102	Modernism
KVB103	Australian Art
KVB108	Contemporary Asian Visual Culture
KVB110	2D Media and Processes
KVB111	3D Media and Processes
KVB211	Post 1945 Art
KVB304	Contemporary Art Issues
KVB306	Video Art and Culture

Art History, Architecture and Design (KAA)

Instructions: Complete any six of the below units.

DAB325	Architecture in the 20th Century
DAB420	Architecture, Culture and Space
DAB525	Architecture and the City
DEB102	Introducing Design History
KVB102	Modernism

KVB211	Post 1945 Art
KVB212	Australian Art, Architecture and Design
KVB307	Theories of Spatial Culture

Communication (KCN)

	Instructions: Complete any six of the below units.
KCB101	Introduction to Media and Communication: Texts
KCB103	Strategic Speech Communication
KCB104	Introduction to Media and Communications: Industries
KCB105	Media Myth Busting 2
KCB302	Political Communication
KKB004	Indigenous Creative Industries
SELECT	Either KWB102 or KWB106:
KWB102	Media Writing
KWB106	Corporate Writing and Editing

Computational Arts (KKC)

	Instructions: Complete any six of the below units.
KIB101	Visual Communication
KIB103	Introduction to Web Design and Development
KIB105	Animation and Motion Graphics
KMB107	Sound, Image, Text
KMB129	Music and Sound Production 2
KVB211	Post 1945 Art
	Note: ITB001, ITB003,KKB210, KKB211 and KVB202 are permitted to count towards this sub-major.

Creative and Professional Writing (KCW)

	Instructions: Complete any six of the below units.
KWB101	Introduction to Creative Writing
KWB102	Media Writing
KWB103	Persuasive Writing
KWB104	Creative Writing: The Short Story
KWB106	Corporate Writing and Editing
KWB107	Creative Non-Fiction
KWB206	Youth and Children's Writing
	Note: KWB204 is permitted to count towards this sub-major.

Creative Industries Management (KCI)

	Instructions: Complete any six of the below units.
BSB115	Management
BSB126	Marketing
KTB104	Performance Innovation
KTB207	Staging Australia
KTB210	Creative Industries Management
KTB211	Creative Industries Events and Festivals
KTB306	Directing for Performance Events and Festivals
MGB223	Entrepreneurship and Innovation

Dance (KDN)

KDB105	Architecture of the Body
KDB106	Dance Analysis
KDB108	World Dance
KDB109	Funk, Tap and all that Jazz
KDB110	Deconstructing Dance in History
KDB204	Australian Dance

Digital Media (KDM)

	Instructions: Complete any six of the below units.
KCB102	Media Myth Busting 1
KCB201	New Media 1: Information and Knowledge
KCB202	New Media 2: Applications and Implications
KCB203	Consumption Matters: Consumer Cultures and Identity
KIB101	Visual Communication
KIB103	Introduction to Web Design and Development
KPB110	The Movie, TV & New Media Business
KVB306	Video Art and Culture

Fashion, Art and Communication (KFA)

	Instructions: Complete any six of the below units.
KCB203	Consumption Matters: Consumer Cultures and Identity
KFB103	Introduction to Fashion
KFB205	Fashion and Style Journalism
KFB206	Fashion and Modernity
KVB104	Photomedia and Artistic Practice
KVB108	Contemporary Asian Visual Culture
KVB212	Australian Art, Architecture and Design
	Note: KFB203 is permitted to count towards this sub-major.

Indigenous Studies (KIS)

	Instructions: Complete any six of the below units.
EDB007	Culture Studies: Indigenous Education
EDB038	Indigenous Australian Culture Studies
EDB039	Indigenous Politics and Political Culture
EDB040	Indigenous Knowledge: Research Ethics and Protocols
EDB041	Indigenous Australia: Country, Kin and Culture
KWB109	Writing Australia
	Note: JSB352, KKB004 and KWB307 are permitted to count towards this sub-major.

Interaction Design (KIN)

Instructions: Complete any six of the below units.

KIB101	Visual Communication
KIB102	Visual Interactions
KIB103	Introduction to Web Design and Development
KIB104	Digital Media
KIB214	Design for Interactive Media
KIB230	Interface and Information Design

Note: KIB210 (24 cps) is permitted to count towards this sub-major.

Journalism (KJO)

Instructions: Complete any six of the below units.

KFB205	Fashion and Style Journalism
KJB101	Digital Journalism
KJB120	Newswriting
KJB121	Journalistic Inquiry
KJB224	Feature Writing
KJB239	Journalism Ethics and Issues
KJB280	International Journalism
KJB337	Public Affairs Reporting

Literary and Cultural Studies (KLC)

Instructions: Complete any six of the below units.

KWB103	Persuasive Writing
KWB108	Introduction To Literary Studies
KWB109	Writing Australia
KWB206	Youth and Children's Writing
KWB207	Great Books: Creative Writing Classics
KWB208	Modern Times (Literature and Culture in the 20th Century)
KWB209	Shakespeare, Then and Now
KWB308	Wonderlands: Literature and Culture in the 19th Century
KWB309	Popular Fictions, Popular Culture

Music and Sound Studies (KMS)

Instructions: Complete any six of the below units.

KMB003	Sex Drugs Rock 'n' roll
KMB004	World Music
KMB107	Sound, Image, Text
KMB119	Music and Sound Production 1
KMB122	Music and Sound Concepts 1
KMB129	Music and Sound Production 2
KMB301	The Music Industry

Note: KMB002, KMB007, KMB104 and KMB204 are permitted to count towards this sub-major.

Performance Studies (KTP)

Instructions: Complete any six of the below units.

KTB101	20th Century Performance
KTB102	Process Drama
KTB103	Performing Skills 1: Character and Scene
KTB104	Performance Innovation
KTB106	Performing Skills 2: Style and Form
KTB204	Understanding Performance
KTB207	Staging Australia
KTB209	Applied Performance

Screen Studies (KSC)

Instructions: Complete any six of the below units.

KPB109	Film and TV History
KPB112	TV and Film Genres
KPB113	TV and Film Text Analysis
KPB203	Australian Film
KPB205	Documentary Theory and Practice
KPB206	International Cinema

Television (KTV)

KPB101	Introduction to Film, TV and New Media Production
KPB104	Film and Television Production Resource Management
KPB105	Narrative Production
KPB110	The Movie, TV & New Media Business
KPB112	TV and Film Genres
KPB303	Critical Thinking About Television

IMPORTANT

Where it allows, students can take a maximum of 8 units outside the Creative Industries Faculty (depending on the course the student is currently enrolled in). The following submajors/minors are offered through the Faculty of Business. Students may take only ONE of these as a complete submajor. For information about availability of non-Creative Industries Units, contact the Course Coordinator

Advertising (KAD)

AMB200	Consumer Behaviour
AMB220	Advertising Theory and Practice
AMB318	Advertising Copywriting
AMB319	Media Planning
AMB320	Advertising Management
BSB126	Marketing

Entrepreneurship (KEN)

Instructions: Complete any six of the below units.

AMB251	Innovation and Brand Management

BSB115	Management
BSB126	Marketing
MGB200	Leading Organisations
MGB223	Entrepreneurship and Innovation
MGB324	Managing Business Growth

Note: BSB212 and AMB202 are permitted to be counted towards this sub-major if completed in 2009 or earlier.

Public Relations (KPR)

AMB201	Marketing and Audience Research
AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques
AMB372	Public Relations Planning
AMB373	Corporate Communication
BSB126	Marketing

Note: AMB261 and AMB262 are permitted to count towards this sub-major if completed in 2009 or earlier.

Creative Industries Minor Options

INSTRUCTIONS FOR MINORS

* Minors offered by other faculties can be accessed through 'University Wide Minor Options' and 'Language Minor Options'. Some minors to consider include: Advertising, Architectural Studies, Collaborative Digital Design, Game Design, Entrepreneurship, Indigenous Studies, 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.

3D Visualisation

Description: The 3D Visualisation Minor offers you the opportunity to develop a fundamental understanding of current 3D computer graphics and visualisation. You will expand your 3D modelling skill set to include 3D character animation and real-time 3D followed by the creation of an interactive virtual environment.

KIB203	Introduction to 3D Computer Graphics
KIB221	Animation: CG Toolkit
KIB316	Virtual Environments
KIB325	Real-Time 3D Computer Graphics

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

Note: KKB216 is not offered in 2010

Animation

Description: The aim of this minor is to provide you with a broad understanding of animation through the combination of units that encompass drawing for animation with a unit that addresses computer animation processes. This is then contextualized through Animation Practices, which covers the history of animation and considers the cultural significance of the form, and the diversity of practices.

Instructions: Choose any four (4) of the following six units

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

Art History

Description: This minor presents an introduction to the Second major art movements and issues in twentieth- and twenty-first century art. It actively fosters skills of visual and textual literacy by combining both in a coherent package of study. It will supplement the study for those interested in the arts as well as cognate disciplines such as design, fashion, media and architecture.

KVB102	Modernism
KVB103	Australian Art
KVB211	Post 1945 Art
KVB304	Contemporary Art Issues

Art, Design and Architecture

Description: This minor introduces you to the cognate disciplines of art, design and architecture. Aspiring practitioners who wish to understand the historical and intellectual traditions of their fields will benefit from this minor, as will those who are considering future honours and postgraduate study in this field.

DAB325	Architecture in the 20th Century
DEB102	Introducing Design History

KVB212	Australian Art, Architecture and Design
KVB306	Video Art and Culture

Audience and User Research

Description: The value of much creative and business activity is determined by its success with audiences and users and the ability to understand and research the people who engage with your outputs is vital. This minor provides you with a conceptual understanding of how audiences use media and cultural products and teaches practical skills in conducting qualitative and quantitative audience research.

KCB102	Media Myth Busting 1
KCB105	Media Myth Busting 2
KCB203	Consumption Matters: Consumer Cultures and Identity
KCB301	Media Audiences

Communication for the Professions

Description: This minor provides you with opportunity to understand the parameters of the journalism and professional communication fields.

KCB103	Strategic Speech Communication
KCB302	Political Communication
KCB304	Managing Communication Resources
KWB103	Persuasive Writing
KWB106	Corporate Writing and Editing

Creative Writing

Description: This minor aims to prepare you with skills and knowledge in the area of creative writing and to enhance your critical, analytical and peer-reviewing skills.

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.

KDB105	Architecture of the Body
KDB106	Dance Analysis
KDB110	Deconstructing Dance in History
KDB204	Australian Dance
KDB225	Music Theatre Skills

Digital Media

Description: This minor provides you with the opportunity to understand the guiding principles behind new modes of communication and creative industries practice.

KIB101	Visual Communication
KIB103	Introduction to Web Design and Development
KCB201	New Media 1: Information and Knowledge
KCB202	New Media 2: Applications and Implications
KVB306	Video Art and Culture

Drama

Description: This minor provides you with introductory concepts and practices underpinning contemporary performance-making.

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
KWB102	Media Writing
KXB101	Introduction to Entertainment
KXB102	Global Entertainment
KXB201	Entertainment Practice: Balancing Creativity and Business

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: Complete 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.

KWB109	Writing Australia
KWB206	Youth and Children's Writing
KWB207	Great Books: Creative Writing Classics
KWB208	Modern Times (Literature and Culture in the 20th Century)
KWB209	Shakespeare, Then and Now
KWB308	Wonderlands: Literature and Culture in the 19th Century

* Please note: KWB307 is permitted to count towards this unit set.

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.

KWB108	Introduction To Literary Studies
KWB109	Writing Australia
KWB206	Youth and Children's Writing
KWB208	Modern Times (Literature and Culture in the 20th Century)
KWB308	Wonderlands: Literature and Culture in the 19th Century
KWB309	Popular Fictions, Popular Culture

Music Studies

Description: This minor provides you with understandings of new directions in music across styles, genres, cultures, disciplines and beliefs.

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.

* KMB200 will be offered from 2011.

Performance Events and Festivals

Description: This minor provides you with understandings and skills in creative industries performance and management.

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

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.

KWB102	Media Writing
KWB103	Persuasive Writing
KWB106	Corporate Writing and Editing
KWB303	Writing and Publishing Industry

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.

KPB109	Film and TV History
KPB112	TV and Film Genres
KPB205	Documentary Theory and Practice
KPB206	International Cinema
KPB212	Australian Film and TV

*Note: KPB203 is permitted to count towards this major if completed in 2010 or earlier.

Sound Studies

Description: This minor introduces you to the practical world of sound production tools and techniques together with a secure theoretical underpinning.

KKB216	Graphical Development Environments for Media Interaction
KMB119	Music and Sound Production 1
KMB129	Music and Sound Production 2
KMB252	Multi-Platform Sound Design
KMB301	The Music Industry

* Please note: KMB004 is permitted to count towards this unit set. KMB106 will be discontinued at the end of 2010 and replaced by KMB252.

*KMB106 is permitted to count towards this minor if completed in 2010 or earlier.

Television

Description: The aim of this minor is to provide students with theoretical and practical understandings of television production, distribution and reception.

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

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.

KVB110	2D Media and Processes
KVB111	3D Media and Processes
KVB200	Exhibition and Display in the Visual Arts
KVB213	Graphic Investigation

Creative Industries Transitions to New Professional Environments Unit Options

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

KKB341	Workplace Learning 1
KKB342	Workplace Learning 2
KKB343	Service Learning 1
KKB344	Service Learning 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

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
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.

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

*Note: This unit will be offered from 2011.

Faculty

KKB004	Indigenous Creative Industries
KKB101	Creative Industries: People and Practices
KKB102	Creative Industries: Making Connections
KKB216	Graphical Development Environments for Media Interaction
KKB345	Creative Industries Project 1
KKB346	Creative Industries Project 2

Fashion

KFB103	Introduction to Fashion
KFB106	Unspeakable Beauty: A History of Fashion and Style
KFB205	Fashion and Style Journalism
KFB206	Fashion and Modernity
KFB207	Contemporary Fashion
KFB208	Fashion Portfolio
KFB209	Ragtrade: Wholesaling Fashion

Film & Television

KPB101	Introduction to Film, TV and New Media Production
KPB104	Film and Television Production Resource Management
KPB109	Film and TV History
KPB110	The Movie, TV & New Media Business
KPB112	TV and Film Genres
KPB113	TV and Film Text Analysis
KPB205	Documentary Theory and Practice
KPB206	International Cinema
KPB207	Film and Television Scriptwriting
KPB303	Critical Thinking About Television

* Please note: 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.

Interactive & Visual Design

KIB101	Visual Communication
KIB102	Visual Interactions
KIB103	Introduction to Web Design and Development
KIB104	Digital Media
KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion

Journalism

KJB101	Digital Journalism
KJB120	Newswriting
KJB121	Journalistic Inquiry
KJB224	Feature Writing
KJB239	Journalism Ethics and Issues
KJB280	International Journalism
KJB337	Public Affairs Reporting

Media & Communication

KCB101	Introduction to Media and Communication: Texts
KCB102	Media Myth Busting 1
KCB103	Strategic Speech Communication
KCB104	Introduction to Media and Communications: Industries
KCB105	Media Myth Busting 2
KCB201	New Media 1: Information and Knowledge
KCB202	New Media 2: Applications and Implications
KCB203	Consumption Matters: Consumer Cultures and Identity
KCB302	Political Communication

Music & Sound

KMB003	Sex Drugs Rock 'n' roll
KMB004	World Music
KMB107	Sound, Image, Text
KMB119	Music and Sound Production 1
KMB122	Music and Sound Concepts 1
KMB129	Music and Sound Production 2
KMB132	Music and Sound Concepts 2
KMB200	Music Scenes and Subcultures
KMB252	Multi-Platform Sound Design

* Please note: KMB002, KMB007, KMB104, KMB105, and KMB108 are permitted to count as Unit Options if completed in 2009 or earlier.

*KMB106 will be discontinued at the end of 2010 and replaced by KMB252.

*KMB106 is permitted to count as a Unit Option if completed in 2010 or earlier.

*KMB200 will be offered from 2011.

Performance Studies

KSB215	Visual Theatre Design
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

Visual Arts	
KVB102	Modernism
KVB103	Australian Art
KVB104	Photomedia and Artistic Practice
KVB105	Drawing for Design
KVB106	Drawing for Animation
KVB108	Contemporary Asian Visual Culture
KVB110	2D Media and Processes
KVB111	3D Media and Processes
KVB211	Post 1945 Art
KVB212	Australian Art, Architecture and Design
KVB213	Graphic Investigation
KVB304	Contemporary Art Issues
KVB306	Video Art and Culture
KVB307	Theories of Spatial Culture

Network Systems Major

Compulsory Units	
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
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 is only to be used as a prereq for INB381
MAB281	Mathematics for Computer Graphics

Information Systems Major

Compulsory Units	
INB311	Enterprise Systems
INB340	Database Design
INB220	Business Analysis

IS Elective Units	
INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB124	Information Systems Development
INB221	Technology Management

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: 2010
Admissions: No
CRICOS code: 059226F
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,655 (indicative) per semester
International Fees (indicative): 2010: $11,000 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Course coordinator: Dr Gary Carter (Mathematics), Mr Richard Thomas (Information Systems)
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 School of 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. Students wishing to participate in the Cooperative Education Program should be aware that they will not receive financial support as a Dean's Scholar for the duration of the placement.

Find out more about the Cooperative Education Program.

Mathematics Bursaries

Students enrolled in this course can apply for industry-sponsored bursaries. These bursaries are awarded to Australian citizens or permanent residents on a competitive basis. Applications should be submitted by 1 December of the year preceding entry to the course. For further information see www.maths.qut.edu.au

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Unit Incompatibility/Translation Information

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

Further Information

For further information about this course, please contact

Gary Carter (Mathematics) or Mr Richard Thomas (Information Systems)
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Mathematics Units

Level 2 Units	
MAB311	Advanced Calculus
MAB312	Linear Algebra
MAB313	Mathematics of Finance
MAB314	Statistical Modelling 2
MAB315	Operations Research 2
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB420	Computational Mathematics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation
MAB481	Visualisation and Data Analysis
	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
MAB681	Advanced Visualisation and Data Analysis
	Note: MAB523 Introduction to Quality Management and MAB621 Discrete Mathematics do not contribute to the mandatory 48 credit points minimum from Level 3 Mathematics units.

Intelligent Systems Major (pre 2008)

Compulsory Units	
INB335	Information Resources
INB342	Enterprise Data Mining
INB371	Data Structures and Algorithms
INB860	Computational Intelligence for Control and Embedded Systems
	IT Elective (INB383 and INB343 recommended)
	IT Elective
	6 Units required

Network Systems Major

Compulsory Units	
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
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 is only to be used as a prereq for INB381
MAB281	Mathematics for Computer Graphics

Course structure

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

Potential Careers:

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

Bachelor of Applied Science / Bachelor of Business (IX31)

Year offered: 2010
Admissions: Yes
CRICOS code: 042263G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $3,300 (indicative) per semester
International Fees (indicative): 2010: $10,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419832
Past rank cut-off: 79
Past OP cut-off: 11
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr Perry Hartfield (Science and Technology); Dr Erica French (Business)
Discipline coordinator: Ms Ros Kent (Accountancy); Ms Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr Anup Basu (Finance); Dr Robert Thompson (Human Resource Management); Mr Michael Cox (International Business); Dr Kavoos Mohannak (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations). Science Discipline Coordinator details are listed under further information.
Campus: Gardens Point

Career Opportunities

By combining your science studies with the Bachelor of Business you will develop the entrepreneurial skills necessary to sell your abilities to a range of employers. As a graduate of the Bachelor of Applied Science/Bachelor of Business, you will be able to work at the cutting edge of scientific innovation within a range of public, private and non-profit industries. As well as the range of science-based careers available, you could expect to gain employment as a consultant, marketer, or project manager within firms developing and taking scientific research to the marketplace.

Course Design

The Bachelor of Applied Science allows multi-disciplinary programs of study to help position you within the broad range of science disciplines and qualify you as a competent professional within your chosen field. You can specialise in one of the major areas of study available in the Bachelor of Applied Science course (Biochemistry, Biotechnology, Chemistry, Ecology, Environmental Science, Forensic Science, Geoscience, Microbiology or Physics). See the Bachelor of Applied Science (SC01) course for more details.

To allow you to complete the double degree in a shorter period of time, your co-major will be taken from the business program therefore it is not possible to choose any of the co-majors listed under the Bachelor of Applied Science course.

Business students will complete sixteen (16) units consisting of eight (8) Faculty Core Units (7 prescribed BSBxxx units and MGB223) and an eight (8) unit major. Students are not required to complete BSB123 Data Analysis or BSB122 Quantitative Analysis and Finance, this unit has been replaced by MGB223 Entrepreneurship and Innovation. Students must choose a major from the following: Accounting, Advertising, Economics, Finance, Human Resource Management, International Business, Management, Marketing, or Public Relations. For professional recognition, the Accountancy structure differs from the normal structure. Accountancy students will complete 10 major units and 6 Faculty core in order to meet professional recognition requirements.

Professional Recognition

Graduates will satisfy the requirements for membership of the relevant professional body for their chosen science major. See the Bachelor of Applied Science (SC01) course for details.

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

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Further Information

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

Science Coordinator
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Email: p.hartfield@qut.edu.au

Business Coordinator
Dr Erica French
Phone: +61 7 3138 2050
Email: bus@qut.edu.au

Science Discipline Coordinators

Biochemistry
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Chemistry
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Ecology
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Forensic Science
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Geoscience
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Microbiology
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Email: c.knox@qut.edu.au

Physics
Dr Greg Michael
Phone: +61 7 3138 1584
Email: g.michael@qut.edu.au

Full Time Course structure

Year 1 Semester 1

Business Faculty Core Unit
Business Faculty Core Unit
Science Faculty Unit
Science Faculty Unit

Year 1 Semester 2

Business Faculty Core Unit
Business Faculty Core Unit
Science Faculty Unit
Science Faculty Unit

Year 2 Semester 1

Business Faculty Core Unit
Business Faculty Core Unit
Science Faculty Unit
Science Faculty Unit

Year 2 Semester 2

Business Faculty Core Unit
Business Faculty Major Unit
Science Faculty Unit
Science Faculty Unit

Year 3 Semester 1

Business Faculty Major Unit
Business Faculty Major Unit
Science Faculty Unit
Science Faculty Unit

Year 3 Semester 2

Business Faculty Major Unit
Business Faculty Major Unit
Science Faculty Unit
Science Faculty Unit

Year 4 Semester 1

Business Faculty Major Unit
Business Faculty Major Unit
Science Faculty Unit
Science Faculty Unit

Year 4 Semester 2

Business Faculty Major Unit
Business Faculty Major Unit
Science Faculty Unit
Science Faculty Unit

Accountancy Major

Year 1 Semester 1

BSB110	Accounting
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB111	Business Law and Ethics
BSB113	Economics

Year 2 Semester 2

AYB200	Financial Accounting
AYB225	Management Accounting

Year 3 Semester 1

EFB210	Finance 1
AYB221	Computerised Accounting Systems

Year 3 Semester 2

AYB219	Taxation Law
AYB340	Company Accounting

Year 4 Semester 1

AYB230	Corporations Law
AYB321	Strategic Management Accounting

Year 4 Semester 2

AYB301	Audit and Assurance
AYB311	Financial Accounting Issues

Advertising Major

Year 1 Semester 1

BSB126	Marketing
BSB113	Economics

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB124	Working in Business
BSB119	Global Business

Year 2 Semester 2

AMB200	Consumer Behaviour
AMB220	Advertising Theory and Practice

Year 3 Semester 1

BSB111	Business Law and Ethics
AMB201	Marketing and Audience Research

Year 3 Semester 2

AMB318	Advertising Copywriting
AMB319	Media Planning

Year 4 Semester 1

AMB320	Advertising Management
AMB330	Advertising Planning Portfolio

Year 4 Semester 2

AMB339	Advertising Campaigns
MGB223	Entrepreneurship and Innovation

Economics Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB110	Accounting
BSB124	Working in Business

Year 2 Semester 1

BSB111	Business Law and Ethics
MGB223	Entrepreneurship and Innovation

Year 2 Semester 2

EFB222	Quantitative Methods For Economics and Finance
EFB223	Economics 2

Year 3 Semester 1

EFB330	Intermediate Macroeconomics
EFB331	Intermediate Microeconomics

Year 3 Semester 2

	Choice units or remaining Faculty Core Units
	Choice units or remaining Faculty Core Units

Year 4 Semester 1

	Choice units or remaining Faculty Core Units
	Choice units or remaining Faculty Core Units

Year 4 Semester 2

EFB338	Contemporary Application of Economic Theory
	Choice units or remaining Faculty Core Units

Choice units

	Choose any three of the following:
EFB332	Applied Behavioural Economics
EFB333	Introductory Econometrics
EFB334	Environmental Economics and Policy
EFB336	International Economics
EFB337	Game Theory and Applications

Remaining Faculty Core Units

	Students must complete both remaining Faculty Core Units
BSB119	Global Business
BSB126	Marketing

Finance Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB119	Global Business
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

EFB210	Finance 1
EFB222	Quantitative Methods For Economics and Finance

Year 3 Semester 2

EFB201	Financial Markets
EFB307	Finance 2

Year 4 Semester 1

EFB223	Economics 2
EFB335	Investments

Year 4 Semester 2

EFB312	International Finance
EFB340	Finance Capstone

Human Resource Management Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB119	Global Business
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

MGB207	Human Resource Issues and Strategy
MGB220	Business Research Methods

Year 3 Semester 2

MGB200	Leading Organisations
MGB201	Contemporary Employment Relations

Year 4 Semester 1

MGB331	Learning and Development in Organisations
MGB339	Performance and Reward

Year 4 Semester 2

MGB320	Recruitment and Selection
MGB370	Personal and Professional Development

International Business Major

Year 1 Semester 1

BSB119	Global Business
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB113	Economics
BSB124	Working in Business

Year 2 Semester 2

BSB111	Business Law and Ethics
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

AYB227	International Accounting
MGB225	Intercultural Communication and Negotiation Skills

Year 3 Semester 2

AMB210	Importing and Exporting
EFB240	Finance for International Business

Year 4 Semester 1

AMB303	International Logistics
AMB336	International Marketing

Year 4 Semester 2

MGB340	International Business in the Asia-pacific
AMB369	International Business Strategy

Management Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB119	Global Business
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

MGB201	Contemporary Employment Relations

MGB210	Managing Operations

Year 3 Semester 2

MGB200	Leading Organisations
MGB225	Intercultural Communication and Negotiation Skills

Year 4 Semester 1

MGB309	Strategic Management
MGB324	Managing Business Growth

Year 4 Semester 2

MGB310	Sustainability in A Changing Environment
MGB335	Project Management

Marketing Major

Year 1 Semester 1

BSB113	Economics
BSB126	Marketing

Year 1 Semester 2

BSB111	Business Law and Ethics
BSB115	Management

Year 2 Semester 1

BSB119	Global Business
BSB124	Working in Business

Year 2 Semester 2

BSB110	Accounting
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research

Year 3 Semester 2

AMB202	Integrated Marketing Communication
AMB240	Marketing Planning and Management

Year 4 Semester 1

AMB335	E-marketing Strategies
AMB340	Services Marketing

Year 4 Semester 2

AMB336	International Marketing
AMB359	Strategic Marketing

Public Relations Major

Year 1 Semester 1

BSB119	Global Business
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB113	Economics
BSB124	Working in Business

Year 2 Semester 2

AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques

Year 3 Semester 1

AMB201	Marketing and Audience Research
BSB111	Business Law and Ethics

Year 3 Semester 2

AMB372	Public Relations Planning
AMB373	Corporate Communication

Year 4 Semester 1

AMB374	Global Public Relations Cases
AMB375	Public Relations Management

Year 4 Semester 2

AMB379	Public Relations Campaigns
MGB223	Entrepreneurship and Innovation

Course structure - Major in Biochemistry

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

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

Year 2, Semester 2

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 3, Semester 2

LQB481	Biochemical Pathways and Metabolism
LQB483	Molecular Biology Techniques

Year 4, Semester 1

LQB581	Functional Biochemistry
LQB582	Biomedical Research Technologies

Year 4, Semester 2

LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering

Course structure - Major in Biotechnology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

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

Year 2, Semester 2

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 3, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics

Year 4, Semester 1

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

Year 4, Semester 2

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

Course structure - Major in Chemistry

Year 1, Semester 1

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

Year 1, Semester 2

SCB112	Cellular Basis of Life
SCB121	Chemistry 2

Year 2, Semester 1

MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems

Year 2, Semester 2

SCB123	Physical Science Applications
SCB131	Experimental Chemistry

Year 3, Semester 1

PQB312	Analytical Chemistry For Scientists and Technologists
PQB331	Structure and Bonding

Year 3, Semester 2

PQB401	Reaction Kinetics, Thermodynamics and Mechanisms
PQB442	Chemical Spectroscopy

Year 4, Semester 1

PQB502	Advanced Physical Chemistry
PQB531	Organic Mechanisms and Synthesis

Year 4, Semester 2

PQB631	Advanced Inorganic Chemistry
PQB642	Chemical Research

Course structure - Major in Ecology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB122	Cell and Molecular Biology

Year 2, Semester 1

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

Year 2, Semester 2	
NQB201	Planet Earth
NQB202	History of Life on Earth

Year 3, Semester 1	
NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2	
NQB421	Experimental Design
NQB422	Genetics and Evolution

Year 4, Semester 1	
NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management

Year 4, Semester 2	
NQB622	Conservation Biology
NQB623	Ecological Systems

Course structure - Major in Environmental Science

Year 1, Semester 1	
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2	
SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1	
SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2	
NQB202	History of Life on Earth
SCB123	Physical Science Applications

Year 3, Semester 1	
NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2	
NQB403	Soils and the Environment
NQB421	Experimental Design

Year 4, Semester 1	
NQB501	Environmental Modelling
NQB502	Field Methods in Natural Resource Sciences

Year 4, Semester 2	
NQB601	Sustainable Environmental Management
NQB602	Environmental Chemistry

Course structure - Major in Forensic Science

Year 1, Semester 1	
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2	
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1	
SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2	
SCB123	Physical Science Applications
SCB131	Experimental Chemistry

Year 3, Semester 1	
LQB383	Molecular and Cellular Regulation
SCB384	Forensic Sciences - From Crime Scene to Court

Year 3, Semester 2	
JSB979	Forensic Scientific Evidence
PQB312	Analytical Chemistry For Scientists and Technologists

Year 4, Semester 1	
PQB513	Instrumental Analysis
PQB584	Forensic Physical Evidence

Year 4, Semester 2	
LQB680	Forensic DNA Profiling
PQB684	Forensic Analysis

Course structure - Major in Geoscience

Year 1, Semester 1	
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2	
NQB201	Planet Earth
SCB123	Physical Science Applications

Year 2, Semester 1	
SCB110	Science Concepts and Global Systems

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

Year 2, Semester 2

NQB202	History of Life on Earth
SCB222	Exploration of the Universe

Year 3, Semester 1

NQB311	Mineralogy
NQB314	Sedimentary Geology

Year 3, Semester 2

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

Year 4, Semester 1

NQB502	Field Methods in Natural Resource Sciences
NQB513	Geophysics

Year 4, Semester 2

NQB602	Environmental Chemistry
NQB614	Groundwater Systems

Course structure - Major in Microbiology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

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
SCB111	Chemistry 1

Year 1, Semester 2

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
PQB251	Waves and Optics

Year 3, Semester 1

MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 3, Semester 2

PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation

Year 4, Semester 1

PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques

Year 4, Semester 2

PQB650	Advanced Theoretical Physics
PQB651	Experimental Physics

Accountancy Major - Students who commenced in 2007-2008

Year 1 Semester 1

BSB110	Accounting
BSB115	Management

Year 1 Semester 2

BSB114	now replaced by BSB124 Working in Business
BSB126	Marketing
	or

BSB119	Global Business

Year 2 Semester 1

BSB111	Business Law and Ethics
BSB113	Economics

Year 2 Semester 2

AYB200	Financial Accounting
AYB230	Corporations Law

Year 3 Semester 1

AYB225	Management Accounting
AYB340	Company Accounting

Year 3 Semester 2

AYB219	Taxation Law
AYB221	Computerised Accounting Systems

Year 4 Semester 1

AYB301	Audit and Assurance
AYB321	Strategic Management Accounting
	or
AYB311	Financial Accounting Issues

Year 4 Semester 2

AYB339	Accountancy Capstone
EFB210	Finance 1

International Business Major - Students who commenced in 2007-2008

Year 1 Semester 1

BSB119	Global Business
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB113	Economics
BSB124	Working in Business

Year 2 Semester 2

BSB111	Business Law and Ethics
EFB240	Finance for International Business

Year 3 Semester 1

MGB225	Intercultural Communication and Negotiation Skills
IBB208	Please contact the School of AMPR regarding alternative unit
	or
IBB217	Please contact the School of AMPR regarding alternative unit

Year 3 Semester 2

AMB210	Importing and Exporting
MGB340	International Business in the Asia-pacific

Year 4 Semester 1

AMB369	International Business Strategy
IBB304	Please contact the School of AMPR regarding alternative unit

Year 4 Semester 2

AMB303	International Logistics
AMB336	International Marketing

Public Relations Major - Students who commenced in 2007-2008

Year 1 Semester 1

BSB119	Global Business
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

AMB201	Marketing and Audience Research
BSB114	now replaced by BSB124 Working in Business

Year 2 Semester 2

BSB111	Business Law and Ethics
BSB113	Economics

Year 3 Semester 1

AMB202	Integrated Marketing Communication
AMB260	now replaced by AMB263 Introduction to Public Relations
AMB263	Introduction To Public Relations

Year 3 Semester 2

AMB261	Please contact the School of AMPR regarding alternative unit
AMB262	Please contact the School of AMPR regarding alternative unit

Year 4 Semester 1

AMB373	Corporate Communication
AMB374	Global Public Relations Cases

Year 4 Semester 2

AMB379	Public Relations Campaigns
AMB375	Public Relations Management

Human Resource Management Major - Students who commenced in 2007-2008

Year 1 Semester 1	
BSB113	Economics
BSB115	Management

Year 1 Semester 2	
BSB114	now replaced by BSB124 Working in Business
BSB126	Marketing

Year 2 Semester 1	
BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2	
BSB119	Global Business
MGB207	Human Resource Issues and Strategy

Year 3 Semester 1	
MGB220	Business Research Methods
	HRM Option Unit

Year 3 Semester 2	
MGB200	Leading Organisations
	HRM Option Unit

Year 4 Semester 1	
MGB331	Learning and Development in Organisations
MGB339	Performance and Reward

Year 4 Semester 2	
MGB320	Recruitment and Selection
	HRM Option Unit

HRM Option Unit List	
	Plus 3 units from the following list:
MGB201	Contemporary Employment Relations
MGB210	Managing Operations
MGB212	Sustainability in a Changing Environment
MGB309	Strategic Management
MGB314	Organisational Consulting and Change
MGB335	Project Management
MGB370	Personal and Professional Development
	HRM studdents 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 2 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: 2010
Admissions: No
CRICOS code: 059595C
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $4,300 (indicative) per semester
International Fees (indicative): 2010: $10,500 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Course coordinator: Dr Erica French (Business), Associate Professor Ruth Christie (Science and Technology)
Discipline coordinator: Ms Ros Kent (Accountancy); Ms Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr Anup Basu (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Kavoos Mohannak (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

Course structure

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

Information Systems Major

Compulsory Units	
INB311	Enterprise Systems
INB340	Database Design
INB220	Business Analysis

IS Elective Units	
INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB124	Information Systems Development
INB221	Technology Management

Network Systems Major

Compulsory Units	
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
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 is only to be used as a prereq for INB381
MAB281	Mathematics for Computer Graphics

Accountancy Major

Year 1 Semester 1	
BSB110	Accounting
BSB115	Management

Year 1 Semester 2	
BSB123	Data Analysis
BSB124	Working in Business

Year 2 Semester 1	
BSB111	Business Law and Ethics
BSB113	Economics

Year 2 Semester 2	
AYB200	Financial Accounting

AYB230	Corporations Law

Year 3 Semester 1

AYB225	Management Accounting
AYB340	Company Accounting

Year 3 Semester 2

AYB219	Taxation Law
AYB221	Computerised Accounting Systems

Year 4 Semester 1

AYB301	Audit and Assurance
AYB311	Financial Accounting Issues
	OR
AYB321	Strategic Management Accounting

Year 4 Semester 2

EFB222	Quantitative Methods For Economics and Finance
EFB210	Finance 1

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Advertising Major

Year 1 Semester 1

BSB123	Data Analysis
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB119	Global Business
BSB124	Working in Business

Year 2 Semester 2

BSB111	Business Law and Ethics
BSB113	Economics

Year 3 Semester 1

AMB200	Consumer Behaviour
AMB220	Advertising Theory and Practice

Year 3 Semester 2

AMB318	Advertising Copywriting
AMB319	Media Planning

Year 4 Semester 1

AMB320	Advertising Management
AMB330	Advertising Planning Portfolio

Year 4 Semester 2

AMB339	Advertising Campaigns
AMB202	Integrated Marketing Communication

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Banking and Finance Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB123	Data Analysis
BSB119	Global Business

Year 3 Semester 1

EFB222	Quantitative Methods For Economics and Finance
EFB210	Finance 1

Year 3 Semester 2

EFB223	Economics 2
EFB307	Finance 2

Year 4 Semester 1

EFB333	Introductory Econometrics
EFB335	Investments

Year 4 Semester 2

EFB312	International Finance
EFB201	Financial Markets

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Economics Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business

BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
EFB223	Economics 2

Year 2 Semester 2

BSB123	Data Analysis
BSB119	Global Business

Year 3 Semester 1

EFB331	Intermediate Microeconomics
EFB330	Intermediate Macroeconomics

Year 3 Semester 2

EFB222	Quantitative Methods For Economics and Finance
EFB328	Public Economics and Finance

Year 4 Semester 1

BSB111	Business Law and Ethics
EFB200	Applied Regression Analysis

Year 4 Semester 2

EFB338	Contemporary Application of Economic Theory
EFB314	International Trade and Economic Competitiveness

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Human Resource Management Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB123	Data Analysis
BSB119	Global Business

Year 3 Semester 1

MGB207	Human Resource Issues and Strategy
MGB220	Business Research Methods

Year 3 Semester 2

MGB200	Leading Organisations
	HRM Option Unit

Year 4 Semester 1

MGB331	Learning and Development in Organisations
MGB339	Performance and Reward

Year 4 Semester 2

MGB320	Recruitment and Selection
	HRM Option Unit

HRM Option Unit List

HRM students must choose two units from the above list (one must be a Level 3 unit).

MGB201	Contemporary Employment Relations
MGB210	Managing Operations
MGB310	Sustainability in A Changing Environment
MGB309	Strategic Management
MGB314	Organisational Consulting and Change
MGB370	Personal and Professional Development
MGB335	Project Management

Important Note:

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

International Business Major

Year 1 Semester 1

BSB126	Marketing
BSB119	Global Business

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB123	Data Analysis
BSB124	Working in Business

Year 2 Semester 2

BSB111	Business Law and Ethics
BSB113	Economics

Year 3 Semester 1

EFB240	Finance for International Business
IBB217	Asian Business Development
	OR
IBB208	European Business Development

Year 3 Semester 2

AMB210	Importing and Exporting
IBB317	replaced by MGB340 International Business in

	the Asia-Pacific
	OR
IBB308	replaced by MGB340 International Business in the Asia-Pacific

Year 4 Semester 1

AMB336	International Marketing
MGB225	Intercultural Communication and Negotiation Skills

Year 4 Semester 2

AMB303	International Logistics
AMB369	International Business Strategy

Important Note:

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Management Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

MGB200	Leading Organisations
BSB123	Data Analysis

Year 3 Semester 1

MGB210	Managing Operations
MGB223	Entrepreneurship and Innovation

Year 3 Semester 2

BSB119	Global Business
MGB310	Sustainability in A Changing Environment

Year 4 Semester 1

MGB309	Strategic Management
	Management Option Unit

Year 4 Semester 2

	Management Option Unit
MGB335	Project Management

Management Option Unit List

Management students must choose two from the following list (one must be a Level 3 unit):

MGB201	Contemporary Employment Relations
MGB218	Managing Business Growth
MGB314	Organisational Consulting and Change
MGB315	Personal and Professional Development
IBB205	Intercultural Communication and Negotiation Skills

Important Note:

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Marketing Major

Year 1 Semester 1

BSB123	Data Analysis
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB124	Working in Business
BSB119	Global Business

Year 2 Semester 2

BSB111	Business Law and Ethics
BSB113	Economics

Year 3 Semester 1

AMB200	Consumer Behaviour
AMB240	Marketing Planning and Management

Year 3 Semester 2

AMB201	Marketing and Audience Research
AMB335	E-marketing Strategies

Year 4 Semester 1

AMB340	Services Marketing
AMB202	Integrated Marketing Communication

Year 4 Semester 2

AMB359	Strategic Marketing
AMB252	Business Decision Making
	OR
AMB336	International Marketing

Important Note:

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Public Relations Major

Year 1 Semester 1

BSB123	Data Analysis
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB119	Global Business
BSB124	Working in Business

Year 2 Semester 2

BSB111	Business Law and Ethics
BSB113	Economics

Year 3 Semester 1

AMB201	Marketing and Audience Research
AMB263	Introduction To Public Relations

Year 3 Semester 2

AMB261	Media Relations and Publicity
AMB262	Public Relations Writing

Year 4 Semester 1

AMB374	Global Public Relations Cases
AMB360	Corporate Communication Management

Year 4 Semester 2

AMB379	Public Relations Campaigns
AMB371	Corporate Communication Strategies

Important Note:

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

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

Faculty Core units

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

Accountancy Core units

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

Advertising Core units

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

Banking and Finance Core units

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

Economics Core units

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

Electronic Business Core units

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

Human Resource Management Core units

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

International Business Core units

IBB202	is replaced by EFB240 Finance for International Business
IBB208	IBB208 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB210	is now replaced by AMB210 Importing and Exporting
IBB213	is now AMB336 International Marketing
IBB217	IBB217 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB300	is now AMB369 International Business Strategy
IBB308	is replaced by MGB340 International Business in the Asia-Pacific

Management Core units

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

Marketing Core units

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

Public Relations Core units

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

Business Law and Tax Extended Major (BLX)

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

Professional Accounting Extended Major (PAX)

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

Advertising Extended Major (ADX)

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

Banking Extended Major (BFX)

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

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

EFB200	is replaced by EFB333 Introductory Econometrics
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB325	is replaced by EFB336 International Economics
EFB318	is replaced by EFB335 Investments
EFB324	isreplaced by EFB337 Game Theory and Applications

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

EFB200	s replaced by EFB333 Introductory Econometrics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Funds Management Extended Major (FDX)

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

Human Resource Management Extended Major (HRX)

MGB315	is now MGB370 Peronsal and Professional Development
IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB310	Sustainability in a Changing Environment was formerly known as MGB212 and MGB334

International Business Extended Major (IBX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
IBB303	is now AMB303 International Logistics
AMB230	now retitled AMB230 Digital Promotions
IBB312	is replaced by AMb300 Independent Project 1

Management Extended Major (MNX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB218	is now MGB324 Managing Business Growth
MGB315	is now MGB370 Personal & Professional Development
IBB210	is replaced by AMB210 Importand and Exporting
IBB303	is now AMB303 International Logistics

Marketing Extended Major (MKX)

AMB251	now retitled AMB251 Innovation and Brand Management
AMB260	is replaced by AMB263 Introduction to Public Relations
AMB351	is now AMB209 Tourism Marketing
AMB352	is replaced by AMB252 Business Decision Making
AMB354	is now AMB208 Events Marketing
IBB213	is now AMB336 International Marketing
IBB303	is now AMB303 International Logistics

Public Relations Extended Major (PRX)

AMB370	is replaced by AMB374 Global Public Relations Cases
AMB371	is replaced by AMB375 Public Relations Management

Business Law and Tax Specialisation (BLS)

AYB223	is replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law
AYB305	is now AYB205 Company Law & Practice
AYB312	is now AYB232 Financial Institutions Law
BSB213	is now AYB115 Governance Issues in E-Business

Electronic Business Specialisation (EUS)

BSB212	is replaced by AYB114 Business Technologies
BSB213	is replaced by AYB115 Governance Issues and

	Fraud
BSB314	is replaced by AYB341 Forensic and Business Intelligence
ITB233	is now INB312 Enterprise Systems Applications
ITB823	is now INB830 Web Sites for E-Commerce
ITB239	is now INB342 Enterprise Data Mining

Financial Economics Specialisation (FES)

EFB102	is replaced by EFB223 Economics 2
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB329	is now 338 Contemporary Applications of Economics
EFB314	is replaced by EB336 International Economics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Integrated Marketing Communication Specialisation (IMS)

AMB260	is replaced by AMB263 Introduction to Public Relations
AMB230	now retitled AMB230 Digital Promotions
AMB354	is now AMB208 Events Marketing

International Logistics Specialisation (ILG)

IBB303	is now AMB303 International Logistics
BSB314	is replaced by AYB341 Forensic and Business Intelligence
IBB210	is replaced by AMB210 Importing and Exporting
EFB213	is replaced by AMB252 Business Decision Making (offered Sem 2); OR MGB335 Project Management (offered Sem 1 & 2)

Sales Specialisation (SALES)

AMB230	now retitled AMB230 Digital Promotion
AMB250	is replaced by MGB225 Intercultural Communication and Negotiation Skills

International Exchange Specilisation (IEX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills

IX33 - Bachelor of Business/Bachelor of Information Technology Course structure 2009

Course Structure 2009

From semester one, 2009 this course will not be available for commencing students. IX33 will only be available for continuing students. New students - please refer to IX58. Please contact fit.enquiry@qut.edu.au for any enquiries.

Year 1, Semester 1

INB103	Industry Insights
INB250	Systems Architecture
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 1, Semester 2

INB210	Databases
INB251	Networks
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 2, Semester 1

INB104	Building IT Systems
	Choose one unit from: Intermediate Level Elective list. This choice will replace ITB008 from 2009 course summary.
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 2, Semester 2

INB270	Programming
INB271	The Web
BBUS	Business Unit
BBUS	Business Unit

Year 3, Semester 1

	IT Major Unit
	IT Major Unit
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 3 Semester 2

INB301	The Business of IT
	IT Major Unit
BBUS	Business Faculty Major Unit
BBUS	Business Faculty Major Unit

Year 4, Semester 1

INB302	Capstone Project
	IT Major Unit
BBUS	Business Faculty Major Unit
BBUS	Business Faculty Major Unit

Year 4, Semester 2

	IT Major Unit
	IT Major Unit
BBUS	Business Faculty Major Unit
BBUS	Business Faculty Major Unit

IX33 - Bachelor of Business/Bachelor of Information Technology Course structure 2008

Year 1, Semester 1

ITB002	IT Professional Studies
ITB005	Systems Architecture
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 1, Semester 2

ITB004	Database Systems
ITB006	Networks
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 2, Semester 1

ITB001	Problem Solving and Programming
ITB008	Modelling Analysis and Design
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 2, Semester 2

ITB003	Object Oriented Programming
ITB007	Web Development
BBUS	Business Unit
BBUS	Business Unit

Year 3, Semester 1

	IT Major Unit
	IT Major Unit
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 3 Semester 2

ITB009	Core Project Management
	IT Major Unit
BBUS	Business Faculty Major Unit
BBUS	Business Faculty Major Unit

Year 4, Semester 1

ITB010	Core Project Implementation
	IT Major Unit
BBUS	Business Faculty Major Unit
BBUS	Business Faculty Major Unit

Year 4, Semester 2

	IT Major Unit
	IT Major Unit
BBUS	Business Faculty Major Unit
BBUS	Business Faculty Major Unit

IX33 - Bachelor of Business/Bachelor of Information Technology Course structure 2007

Year 1, Semester 1

ITB002	IT Professional Studies
ITB005	Systems Architecture
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 1, Semester 2

ITB004	Database Systems
ITB006	Networks
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 2, Semester 1

ITB001	Problem Solving and Programming
ITB008	Modelling Analysis and Design
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 2, Semester 2

ITB003	Object Oriented Programming
ITB007	Web Development
BBUS	Business Unit
BBUS	Business Unit

Year 3, Semester 1

	IT Major Unit
	IT Major Unit
BBUS	Business Faculty Core Unit
BBUS	Business Faculty Core Unit

Year 3 Semester 2

ITB009	Core Project Initiation
	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: 2010
Admissions: Yes
CRICOS code: 059601K
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $3,400 (indicative) per semester
International Fees (indicative): 2010: $10,500 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr Erica French (Business); Prof Erhan Kozan (Science and Technology); Dr Helen Johnson (Assistant Course Coordinator - Mathematics)
Discipline coordinator: Ms Ros Kent (Accountancy); Ms Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr Anup Basu (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Kavoos Mohannak (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

Career Opportunities

Graduates are equipped to undertake sophisticated economic and financial modelling which is important in business and government decision making. Quantitative analysts are employed by the financial sector in order to optimise returns both in the short and long-term. Graduates may also become actuarial trainees in the insurance and superannuation area although further study is required in order to qualify as an actuary.

Graduates may find employment as Accountants, Advertising Professionals, Banking and Finance Consultants, Economists, Human Resource Managers, International Business Specialists, Managers, Marketing Officers, Public Relations Officers.

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 Faculty Core units (96 credit points)*
- 8 Major Core units (96 credit points)
- MGB223 Entrepreneurship and Innovation*

2007-2008 commencing students
- 7 Faculty 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.

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).

Mathematics Bursaries

Students enrolled in this course can apply for industry-sponsored bursaries. These bursaries are awarded to Australian citizens or permanent residents on a competitive basis. Applications should be submitted by 1 December of the year preceding entry to the course. For further information see www.maths.qut.edu.au

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Further Information

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

Business Coordinator
Dr Erica French
Phone: Student Services +61 7 3138 2117
Email: Student Services bus@qut.edu.au

Science and Technology Coordinator
Prof Erhan Kozan and Dr Helen Johnson
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Full Time Course structure

Year 1 Semester 1

Business Faculty Core Unit
Business Faculty Core Unit
Mathematics Unit
Mathematics Unit

Year 1 Semester 2

Business Faculty Core Unit
Business Faculty Core Unit
Mathematics Unit
Mathematics Unit

Year 2 Semester 1

Business Faculty Core Unit
Business Faculty Core Unit
Mathematics Unit
Mathematics Unit

Year 2 Semester 2

Business Faculty Core Unit
Business Faculty Major Unit
Mathematics Unit
Mathematics Unit

Year 3 Semester 1

Business Faculty Major Unit
Business Faculty Major Unit
Mathematics Unit
Mathematics Unit

Year 3 Semester 2

Business Faculty Major Unit
Business Faculty Major Unit
Mathematics Unit
Mathematics Unit

Year 4 Semester 1

Business Faculty Major Unit
Business Faculty Major Unit
Mathematics Unit
Mathematics Unit

Year 4 Semester 2

Business Faculty Major Unit
Business Faculty Major Unit
Mathematics Unit
Mathematics Unit

Accountancy Major

Year 1 Semester 1

BSB110 Accounting
BSB115 Management

Year 1 Semester 2

BSB124 Working in Business
BSB126 Marketing

Year 2 Semester 1

BSB111 Business Law and Ethics
BSB113 Economics

Year 2 Semester 2

AYB200 Financial Accounting
AYB225 Management Accounting

Year 3 Semester 1

EFB210 Finance 1
AYB221 Computerised Accounting Systems

Year 3 Semester 2

AYB219 Taxation Law
AYB340 Company Accounting

Year 4 Semester 1

AYB230 Corporations Law
AYB321 Strategic Management Accounting

Year 4 Semester 2

AYB301 Audit and Assurance
AYB311 Financial Accounting Issues

Advertising Major

Year 1 Semester 1

BSB126 Marketing
BSB113 Economics

Year 1 Semester 2

BSB110 Accounting
BSB115 Management

Year 2 Semester 1

BSB124 Working in Business
BSB119 Global Business

Year 2 Semester 2

AMB200 Consumer Behaviour
AMB220 Advertising Theory and Practice

Year 3 Semester 1

BSB111 Business Law and Ethics
AMB201 Marketing and Audience Research

Year 3 Semester 2

AMB318 Advertising Copywriting

AMB319	Media Planning

Year 4 Semester 1

AMB320	Advertising Management
AMB330	Advertising Planning Portfolio

Year 4 Semester 2

AMB339	Advertising Campaigns
MGB223	Entrepreneurship and Innovation

Economics Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB110	Accounting
BSB124	Working in Business

Year 2 Semester 1

BSB111	Business Law and Ethics
MGB223	Entrepreneurship and Innovation

Year 2 Semester 2

EFB222	Quantitative Methods For Economics and Finance
EFB223	Economics 2

Year 3 Semester 1

EFB330	Intermediate Macroeconomics
EFB331	Intermediate Microeconomics

Year 3 Semester 2

	Choice units or remaining Faculty Core Units
	Choice units or remaining Faculty Core Units

Year 4 Semester 1

	Choice units or remaining Faculty Core Units
	Choice units or remaining Faculty Core Units

Year 4 Semester 2

EFB338	Contemporary Application of Economic Theory
	Choice units or remaining Faculty Core Units

Choice units

	Choose any three of the following:
EFB332	Applied Behavioural Economics
EFB333	Introductory Econometrics
EFB334	Environmental Economics and Policy
EFB336	International Economics
EFB337	Game Theory and Applications

Important Note:

Note: BSB119 and BSB126 are the remaining Faculty Core units to be completed from the Business program.

Finance Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB119	Global Business
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

EFB210	Finance 1
EFB222	Quantitative Methods For Economics and Finance

Year 3 Semester 2

EFB201	Financial Markets
EFB307	Finance 2

Year 4 Semester 1

EFB223	Economics 2
EFB335	Investments

Year 4 Semester 2

EFB312	International Finance
EFB340	Finance Capstone

Human Resource Management Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB119	Global Business

MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

MGB207	Human Resource Issues and Strategy
MGB220	Business Research Methods

Year 3 Semester 2

MGB200	Leading Organisations
MGB201	Contemporary Employment Relations

Year 4 Semester 1

MGB331	Learning and Development in Organisations
MGB339	Performance and Reward

Year 4 Semester 2

MGB320	Recruitment and Selection
MGB370	Personal and Professional Development

International Business Major

Year 1 Semester 1

BSB119	Global Business
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB113	Economics
BSB124	Working in Business

Year 2 Semester 2

BSB111	Business Law and Ethics
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

AYB227	International Accounting
MGB225	Intercultural Communication and Negotiation Skills

Year 3 Semester 2

AMB210	Importing and Exporting
EFB240	Finance for International Business

Year 4 Semester 1

AMB303	International Logistics
AMB336	International Marketing

Year 4 Semester 2

MGB340	International Business in the Asia-pacific
AMB369	International Business Strategy

Management Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

BSB119	Global Business
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

MGB201	Contemporary Employment Relations
MGB210	Managing Operations

Year 3 Semester 2

MGB200	Leading Organisations
MGB225	Intercultural Communication and Negotiation Skills

Year 4 Semester 1

MGB309	Strategic Management
MGB324	Managing Business Growth

Year 4 Semester 2

MGB310	Sustainability in A Changing Environment
MGB335	Project Management

Marketing Major

Year 1 Semester 1

BSB113	Economics
BSB126	Marketing

Year 1 Semester 2

BSB111	Business Law and Ethics
BSB115	Management

Year 2 Semester 1

BSB119	Global Business
BSB124	Working in Business

Year 2 Semester 2

BSB110	Accounting
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

AMB200	Consumer Behaviour
AMB201	Marketing and Audience Research

Year 3 Semester 2

AMB202 Integrated Marketing Communication
AMB240 Marketing Planning and Management

Year 4 Semester 1

AMB335 E-marketing Strategies
AMB340 Services Marketing

Year 4 Semester 2

AMB336 International Marketing
AMB359 Strategic Marketing

Public Relations Major

Year 1 Semester 1

BSB119 Global Business
BSB126 Marketing

Year 1 Semester 2

BSB110 Accounting
BSB115 Management

Year 2 Semester 1

BSB113 Economics
BSB124 Working in Business

Year 2 Semester 2

AMB263 Introduction To Public Relations
AMB264 Public Relations Techniques

Year 3 Semester 1

AMB201 Marketing and Audience Research
BSB111 Business Law and Ethics

Year 3 Semester 2

AMB372 Public Relations Planning
AMB373 Corporate Communication

Year 4 Semester 1

AMB374 Global Public Relations Cases
AMB375 Public Relations Management

Year 4 Semester 2

AMB379 Public Relations Campaigns
MGB223 Entrepreneurship and Innovation

Course structure for Students with Four Semesters of Senior Mathematics B and Senior Mathematics C

Year 1, Semester 1

MAB101 Statistical Data Analysis 1
MAB121 Calculus and Differential Equations

Year 1, Semester 2

MAB122 Algebra and Analytic Geometry
MAB210 Statistical Modelling 1

Year 2, Semester 1

MAB311 Advanced Calculus
Mathematics Elective

Year 2, Semester 2

MAB220 Computational Mathematics 1
Mathematics Elective

Year 3, Semester 1

MAB312 Linear Algebra
Mathematics Elective

Year 3, Semester 2

Mathematics Elective
Mathematics Elective

Year 4, Semester 1

Mathematics Elective
Mathematics Elective

Year 4, Semester 2

Mathematics Elective
Mathematics Elective

Course Structure for Students with Four Semesters of Senior Mathematics B Only

Year 1, Semester 1

MAB101 Statistical Data Analysis 1
MAB120 Algebra and Calculus

Year 1, Semester 2

MAB121 Calculus and Differential Equations
MAB122 Algebra and Analytic Geometry

Year 2, Semester 1

MAB210 Statistical Modelling 1
MAB311 Advanced Calculus

Year 2, Semester 2

MAB220 Computational Mathematics 1
Mathematics Elective

Year 3, Semester 1

MAB312 Linear Algebra
Mathematics Elective

Year 3, Semester 2

Mathematics Elective
Mathematics Elective

Year 4, Semester 1	
	Mathematics Elective
	Mathematics Elective

Year 4, Semester 2	
	Mathematics Elective
	Mathematics Elective

Mathematics Units

Level 2 Units	
MAB311	Advanced Calculus
MAB312	Linear Algebra
MAB313	Mathematics of Finance
MAB314	Statistical Modelling 2
MAB315	Operations Research 2
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB420	Computational Mathematics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation
MAB481	Visualisation and Data Analysis
	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
MAB681	Advanced Visualisation and Data Analysis
	Note: MAB523 Introduction to Quality Management and MAB621 Discrete Mathematics do not contribute to the mandatory 48 credit points minimum from Level 3 Mathematics units.

Accountancy Major for Students with Maths B and C - For student who commenced in 2007 and 2008

Year 1 Semester 1	
BSB110	Accounting
BSB115	Management, People and Organisations

Year 1 Semester 2	
BSB126	Marketing
	or
BSB114	Government, Business and Society
BSB119	International and Electronic Business

Year 2 Semester 1	
BSB111	Business Law and Ethics
BSB113	Economics

Year 2 Semester 2	
AYB121	Financial Accounting
AYB223	Law of Business Associations

Year 3 Semester 1	
AYB225	Management Accounting
AYB220	Company Accounting

Year 3 Semester 2	
AYB221	Computerised Accounting Systems
AYB325	Taxation Law

Year 4 Semester 1	
AYB301	Auditing
AYB311	Financial Accounting Issues
	or
AYB321	Strategic Management Accounting

Year 4 Semester 2	
AYB339	Accountancy Capstone
EFB210	Finance 1

Important Note 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 for Students with Maths B and C- For students who commenced in 2007 & 2008

Year 1 Semester 1	
BSB113	Economics
BSB115	Management, People and Organisations

Year 1 Semester 2	
BSB114	Government, Business and Society
BSB126	Marketing

Year 2 Semester 1	
BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2	
EFB102	Economics 2

BSB119	International and Electronic Business

Year 3 Semester 1

EFB210	Finance 1
EFB201	Financial Markets

Year 3 Semester 2

EFB307	Finance 2
EFB312	International Finance

Year 4 Semester 1

EFB200	Applied Regression Analysis
EFB318	Portfolio and Security Analysis

Year 4 Semester 2

Any Finance Unit

Any Finance Unit

Important Note for Business Students

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Economics Major for Students with Maths B and C - For Students who commenced in 2007 & 2008

Year 1 Semester 1

BSB113	Economics
BSB115	Management, People and Organisations

Year 1 Semester 2

BSB114	Government, Business and Society
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
EFB102	Economics 2

Year 2 Semester 2

EFB210	Finance 1
BSB119	International and Electronic Business

Year 3 Semester 1

EFB211	Firms, Markets and Resources
EFB202	Business Cycles and Economic Growth

Year 3 Semester 2

EFB328	Public Economics and Finance

Any Economics unit

Year 4 Semester 1

BSB111	Business Law and Ethics
EFB200	Applied Regression Analysis

Year 4 Semester 2

EFB329	Contemporary Applications of Economics Theory
EFB314	International Trade and Economic Competitiveness

Important Note for Business Students

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

International Business Major for Students with Maths B and C - For Student who commenced in 2007 & 2

Year 1 Semester 1

BSB126	Marketing
BSB119	International and Electronic Business

Year 1 Semester 2

BSB110	Accounting
BSB115	Management, People and Organisations

Year 2 Semester 1

BSB114	Government, Business and Society
IBB202	Fundamentals of International Finance

Year 2 Semester 2

BSB111	Business Law and Ethics
BSB113	Economics

Year 3 Semester 1

IBB205	Cross-Cultural 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

Important Note for Business Students

For IBB217 and IBB208 units please contact the School of AMPR regarding alternative units.

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Marketing Major for Students with Maths B and C - For

Students who commenced in 2007 & 2008

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

Important Note for Business Students

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Accountancy Major for Students with Maths B - For Students who commenced in 2007 & 2008

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

Important Note for Business Students

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Banking & Finance Major for Students with Maths B - For Students who commenced in 2007 & 2008

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

Important Note for Business Students

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Economics Major for Students with Maths B - For Students who commened in 2007 & 2008

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

Important Note for Business Students

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

International Business Major for Students with Maths B - For Students who commenced in 2007 & 2008

Year 1 Semester 1

BSB119	International and Electronic Business
BSB126	Marketing

Year 1 Semester 2

BSB110	Accounting

Year 2 Semester 1

BSB114	Government, Business and Society
IBB202	Fundamentals of International Finance

Year 2 Semester 2

BSB111	Business Law and Ethics
BSB113	Economics
BSB115	Management, People and Organisations

Year 3 Semester 1

IBB205	Cross-Cultural 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

Important Note for Business Students

For IBB217 and IBB208 units please contact the School of AMPR regarding alternative units.

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Marketing Major for Students with Maths B - For Students who commenced in 2007 & 2008

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
AMB335	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

Important Note for Business Students	
	Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

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

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

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

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

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

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

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

Human Resource Management Core units	
MGB220	now retitled MGB220 Business Research Methods
MGB221	is now MGB339 Performance and Reward

International Business Core units	
IBB202	is replaced by EFB240 Finance for International Business
IBB208	IBB208 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB210	is now replaced by AMB210 Importing and Exporting
IBB213	is now AMB336 International Marketing
IBB217	IBB217 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB300	is now AMB369 International Business Strategy
IBB308	is replaced by MGB340 International Business in the Asia-Pacific

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

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

Public Relations Core units	
AMB260	is replaced by AMB263 Introduction to Public

	Relations
AMB360	is replaced by AMB373 Corporate Communication
AMB361	is replaced by AMB379 Public Relations Campaigns

Business Law and Tax Extended Major (BLX)

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

Professional Accounting Extended Major (PAX)

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

Advertising Extended Major (ADX)

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

Banking Extended Major (BFX)

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

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

EFB200	is replaced by EFB333 Introductory Econometrics
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB325	is replaced by EFB336 International Economics
EFB318	is replaced by EFB335 Investments
EFB324	isreplaced by EFB337 Game Theory and Applications

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

EFB200	s replaced by EFB333 Introductory Econometrics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Funds Management Extended Major (FDX)

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

Human Resource Management Extended Major (HRX)

MGB315	is now MGB370 Peronsal and Professional Development
IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB310	Sustainability in a Changing Environment was formerly known as MGB212 and MGB334

International Business Extended Major (IBX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
IBB303	is now AMB303 International Logistics
AMB230	now retitled AMB230 Digital Promotions
IBB312	is replaced by AMb300 Independent Project 1

Management Extended Major (MNX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB218	is now MGB324 Managing Business Growth
MGB315	is now MGB370 Personal & Professional Development
IBB210	is replaced by AMB210 Importand and Exporting
IBB303	is now AMB303 International Logistics

Marketing Extended Major (MKX)

AMB251	now retitled AMB251 Innovation and Brand Management
AMB260	is replaced by AMB263 Introduction to Public Relations
AMB351	is now AMB209 Tourism Marketing
AMB352	is replaced by AMB252 Business Decision Making
AMB354	is now AMB208 Events Marketing
IBB213	is now AMB336 International Marketing
IBB303	is now AMB303 International Logistics

Public Relations Extended Major (PRX)

AMB370	is replaced by AMB374 Global Public Relations Cases
AMB371	is replaced by AMB375 Public Relations Management

Business Law and Tax Specialisation (BLS)

AYB223	is replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law
AYB305	is now AYB205 Company Law & Practice
AYB312	is now AYB232 Financial Institutions Law
BSB213	is now AYB115 Governance Issues in E-Business

Electronic Business Specialisation (EUS)

BSB212	is replaced by AYB114 Business Technologies
BSB213	is replaced by AYB115 Governance Issues and Fraud
BSB314	is replaced by AYB341 Forensic and Business Intelligence

ITB233	is now INB312 Enterprise Systems Applications
ITB823	is now INB830 Web Sites for E-Commerce
ITB239	is now INB342 Enterprise Data Mining

Financial Economics Specialisation (FES)

EFB102	is replaced by EFB223 Economics 2
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB329	is now 338 Contemporary Applications of Economics
EFB314	is replaced by EB336 International Economics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Integrated Marketing Communication Specialisation (IMS)

AMB260	is replaced by AMB263 Introduction to Public Relations
AMB230	now retitled AMB230 Digital Promotions
AMB354	is now AMB208 Events Marketing

International Logistics Specialisation (ILG)

IBB303	is now AMB303 International Logistics
BSB314	is replaced by AYB341 Forensic and Business Intelligence
IBB210	is replaced by AMB210 Importing and Exporting
EFB213	is replaced by AMB252 Business Decision Making (offered Sem 2); OR MGB335 Project Management (offered Sem 1 & 2)

Sales Specialisation (SALES)

AMB230	now retitled AMB230 Digital Promotion
AMB250	is replaced by MGB225 Intercultural Communication and Negotiation Skills

International Exchange Specilisation (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: 2010
Admissions: No
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP rate 2010 available July 2009
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Course coordinator: Contact Eve Teague (Arts) - Richard Thomas (Science and Technology)
Campus: Gardens Point and Kelvin Grove

Course description
In this course students complete the requirements of two separate degrees in Arts and Information Technology in four years. The focus of the arts component is social change with an emphasis on understanding societies and the impact of global, social, environmental and technological change on communities and individuals. In the IT component, there is a strong practical component with computing laboratory based units and project work comprising a significant part of the course,

Course is under review
QUT is currently reviewing the Arts and Social Science programs to ensure they continue to meet the needs of students and employers. As a result these programs may change in 2008 or may not be offered. You can register for updates on the status of these courses by visiting the Humanities Program website.

Majors in the Arts component
In the Bachelor of Arts, students choose an multidisciplinary major from one of the following: international and global studies, society and change, ethics and human rights, community studies, or Australian studies.

Majors in the IT component
In the Bachelor of Information Technology, students can choose to major in business systems engineering, data bases, electronic business, games technology, information and knowledge management, information systems, IT management, intelligent systems, interactive media, network systems, security, software architecture, or web services and applications.

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Career outcomes
Information technology professionals with a strong knowledge in languages, as well as deep understanding in areas such as international issues , particularly cultures, ethics and human rights , are highly valued by the information technology industry. The Arts component also provides students with a broad-based education and a range of transferable analytical, research and communication skills which will enrich studies in information technology and expand career choices.

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 the IT component of this course please contact the course coordinator Mr Richard Thomas at enquiry.scitech@qut.edu.au or call 3138 2782

COURSE OVERVIEW

YEAR 1 SEMESTER 1	
INB103	Industry Insights
INB250	Systems Architecture
BA	Major unit
HHB116	Applied Skills And Scholarship

YEAR 1 SEMESTER 2	
INB210	Databases
INB251	Networks
BA	Major unit
BA	Discipline unit or Elective unit

YEAR 2 SEMESTER 1	
INB104	Building IT Systems
	Choose one unit from: Intermediate Level Elective list. This choice will replace ITB008 from 2009 course summary.
BA	Major unit
BA	Discipline or Minor unit or Elective unit

YEAR 2 SEMESTER 2	
INB270	Programming
INB271	The Web
BA	Major unit
BA	Major unit

YEAR 3 SEMESTER 1	
	IT Major Unit
	IT Major Unit
BA	Major unit
BA	Discipline or Minor unit or Elective

YEAR 3 SEMESTER 2	
INB301	The Business of IT
	IT Major Unit
BA	Major unit
BA	Discipline or Minor unit or Elective

YEAR 4 SEMESTER 1	
INB302	Capstone Project
	IT Major Unit
BA	Elective unit
BA	Discipline or Minor unit or Elective

YEAR 4 SEMESTER 2	
	IT Major Unit
	IT Major Unit
BA	Elective unit
BA	Discipline unit or Elective unit

ARTS UNITS

FOR A LIST OF ARTS UNITS IN THIS DOUBLE DEGREE REFER TO QUT BACHELOR OF ARTS SINGLE DEGREE

Information Systems Major

Compulsory Units	
INB311	Enterprise Systems
INB340	Database Design
INB220	Business Analysis

IS Elective Units	
INB312	Enterprise Systems Applications
INB342	Enterprise Data Mining
INB313	Electronic Commerce Site Development
INB322	Information Systems Consulting
INB320	Business Process Modelling
INB124	Information Systems Development
INB221	Technology Management

Network Systems Major

Compulsory Units	
INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
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 is only to be used as a prereq for INB381
MAB281	Mathematics for Computer Graphics

Society and Change Multidisciplinary Major

Society and Change	
	Seven (7) units are required for a Society and Change Major. These can include units completed in the Society and Change Major up to 2009 as well as any completed from the following list:
CLB107	The Classical World
CLB110	Environment and Society
CLB111	Environmental Hazards
JSB171	Justice and Society
KMB003	Sex Drugs Rock 'n' roll
MDB454	Science, Technology and Society
PUB209	Health, Culture and Society
PYB067	Human Sexuality
SCB110	Science Concepts and Global Systems
SWB102	The Human Condition
SWB104	Interpersonal Communication
SWB212	Community Work
SWB214	Team Practice and Group Processes
SWB222	Advanced Communication for Human Services and Social Work
SWB223	People, Society and Social Work
SWB302	Social Policy Processes

Ethics and Human Rights Multidisciplinary Major

Ethics and Human Rights	
	Seven (7) units are required for an Ethics and Human Rights Major. These can include units completed in the Ethics and Human Rights Major up to 2009 as well as any completed from the following list.
JSB171	Justice and Society
JSB175	Social Ethics and the Justice System
LWS101	Ethics Law and Health Care
NSB113	Diversity and Health: Introduction to Indigenous and Multicultural Perspectives
PUB486	Ethics and the Law in Health Service Delivery
SWB105	Introduction to Human Rights and Ethics
SWB219	Ethical and Legal Dimensions of Human Services and Social Work

Community Studies Multidisciplinary Major

Community Studies	
	Seven (7) units are required for a Community Studies Major. These can include units completed in the Community Studies Major up to 2009 as well as any completed from the following list.
EDB040	Indigenous Knowledge: Research Ethics and Protocols
EDB041	Indigenous Australia: Country, Kin and Culture
SWB100	Introduction to Human Services and Social Work
SWB102	The Human Condition
SWB103	Contemporary Social and Community Issues
SWB104	Interpersonal Communication
SWB204	Child and Family Services: Introduction
SWB206	Disability Services: Introduction
SWB207	Services to Young People: Introduction
SWB212	Community Work
SWB214	Team Practice and Group Processes
SWB216	The Human Dimensions of Space
SWB219	Ethical and Legal Dimensions of Human Services and Social Work
SWB220	Practice Theories
SWB221	Social Work Processes and Methods
SWB222	Advanced Communication for Human Services and Social Work
SWB302	Social Policy Processes
SWB304	Child and Family Services: Advanced
SWB305	Community and Youth Corrections
SWB306	Disability Services: Advanced
SWB307	Services to Young People: Advanced
SWB308	Child Protection Intervention Skills

Australian Studies Multidisciplinary Major

Australian Studies	
	Seven (7) units are required for an Australian Studies Major. These can include units completed in the Austrlian Studies Major up to 2009 as well as any completed from the following list.
CLB101	Australian Society and Culture
CLB102	Australian Historical Studies
CLB105	Australia and the South Pacific
CLB113	Australian Geographical Studies
EDB038	Indigenous Australian Culture Studies
EDB039	Indigenous Politics and Political Culture
EDB041	Indigenous Australia: Country, Kin and Culture

International and Global Studies Multidisciplinary Major

International and Global Studies	
	Seven (7) units are required for an International and Global Studies (IGS) Major. These can include units completed in the IGS Major up to 2009 as well as any completed from the following list.
BSB119	Global Business
CLB049	The Global Teacher
CLB104	Colonialism and Independence in Asia-Pacific
CLB105	Australia and the South Pacific

CLB106	Modern China
CLB108	Nations and Nationalism in Modern Europe
CLB109	World Regions
CLB112	South East Asia in Focus
MDB454	Science, Technology and Society
SCB110	Science Concepts and Global Systems

Students may select one Language unit to be counted as part of the IGS Major. Students may also undertake a Combined Major in Languages/International and Global Studies, comprising 3 IGS units plus 4 units in one chosen language. (Indonesian, Japanese, French, Mandarin, German).

Discipline Major - Geography and Environmental Studies

Geography and Environmental Studies

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

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

Discipline Major - History

History

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

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

Discipline Major - Languages

LANGUAGES

Apart from Mandarin, all Languages are now offered via cross institutional study from the University of Queensland. For information on Language options contact QUT's Faculty of Business

Mandarin

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

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

Overseas Units - All Languages

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

French

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

FREN1010	French 1/Introductory French A
FREN1020	French 2/Introductory French B
FREN2010	French 3/Intermediate French A
	OR
FREN3112	French Langage A
FREN2020	French 4/Intermediate French B *
	OR
FREN3113	French Langage B *
FREN3114	French 5/French Language C
FREN3115	French 6/French Language D
FREN3116	French 7/Advanced French Language **
	OR
FREN3330	French for Business
	OR

FREN3360	Le cinema en Francais
FREN3120	French 8/Advanced Oral French
	OR
FREN3210	Litterature et modernite
	OR
FREN3310	Introduction to French > English Translation
	OR
FREN3350	Litterature Contemporaine

* FREN2010 is third semester French for students who have done HHB061 and HHB062 (semester 1 and 2 beginner French). FREN3112 is first semester French for students who have successfully completed Year 12 in the last three years

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

German

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

GRMN1010	German 1/Introductory German Language 1
GRMN1020	German 2/Introductory German Languge 2
GRMN2010	German 3/Continuing German Language 1
GRMN2020	German 4/Continuing German Language 2
GRMN3010	German 5/Advanced German Language 1
GRMN3020	German 6/Advanced German Language 2
GRMN3110	German 7/Advanced German Language 3
GRMN3120	German 8/Advanced German Language 4

Japanese

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

JAPN1011	Japanese 1/Introductory Japanese 1
JAPN2011	Japanese 2/Introductory Japanese 2
JAPN2101	Japanese 3/Intermediate Japanese 1
JAPN3001	Japanese 4/Intermediate Japanese 2
JAPN3101	Japanese 5/Continuing Japanese 3
JAPN3102	Japanese 6/Continuing Japanese 4
JAPN3200	Japanese 7/Multimedia Japanese
	OR
JAPN3240	Modern Literary Texts
	OR
JAPN3210	Polite Japanese Written & Spoken Styles
JAPN3500	Japanese 8/Language and Society in Japan

Indonesian

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

INDN1000	Indonesian 1/Introductory Indonesian A
INDN1001	Indonesian 2/Introductory Indonesian B
INDN2000	Indonesian 3/Intermediate Indonesian A
INDN2001	Indonesian 4/Intermediate Indonesian B
INDN3000	Indonesian 5/Advanced Indonesian A
INDN3001	Indonesian 6/Advanced Indonesian B
INDN3003	Indonesian 7/Indonesian Through the Media
INDN3005	Indonesian 8/Indonesian Translation B

Discipline Major - Social Science

SOCIAL SCIENCE

Six (6) units are required for a Social Science Discipline Major which comprises Sociology units and Political Studies units. These can include units completed in the Social Science Discipline Major up to 2009 as well as any completed from the following list.

Sociology

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

Political Studies

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

Potential Careers:

Community Worker, Diplomat, Government Officer, Higher Education Worker, Information Officer, Policy Officer, Public Servant.

Bachelor of Information Technology/Bachelor of Laws (IX53)

Year offered: 2010
Admissions: Yes
CRICOS code: 066292D
Course duration (full-time): 5.5 Years
Domestic fees (indicative): 2010: CSP $4,100 (indicative) per semester
International Fees (indicative): 2010: $10,500 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 528
Standard credit points per full-time semester: 48
Course coordinator: Mr Richard Thomas (Science and Technology), Dr Bill Dixon (Law)
Campus: Gardens Point

OP Guarantee

The OP Guarantee will apply to this course.

Course Description

This degree equips you to build and apply creative, innovative IT solutions across diverse industries. A hands-on, real world based curriculum gives you the opportunity to explore a wide range of areas within the two strands of this degree, and gain deep understanding within your chosen area speciality, such as networking, software engineering, data warehousing, business process modelling, enterprise systems, information management, web technologies, or digital societies. You will experience an innovative, hands-on approach to learning through projects where you develop IT systems. You will be able to gain entrepreneurial skills if you wish to learn how to develop an idea into a commercial opportunity. You learn to harness your creativity and people skills to maximise the impact of your technical know-how in the booming IT marketplace. It positions you for a challenging and rewarding career within the global economy. Full-time students are eligible for the Cooperative Education Program; paid industry work experience with credit towards your degree. Students are also offered many other work-integrated learning opportunities where you receive first-hand industry experience.

The defining nature of the QUT Law degree is its real-world applied nature which will equip you with the high quality knowledge and skills and that meet the needs of the legal profession, government, business and industry. In developing the Law degree the Faculty recognises that graduates are increasingly seeking a broad range of careers including, but not limited to, legal practice.

The flexible nature of the degree provides students with an opportunity to undertake a series of elective streams. These streams group legal content and legal skills units into alignment with the varied career destinations which a legal education opens to graduates and will allow you to study areas of the law that match your career aspirations.

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

Entry Requirements

Year 12 or equivalent
Prerequisites: Nil
Assumed Knowledge: English (4,SA), Maths A, B or C (4,SA)
Primary Fields: A or B
Secondary Fields: C
OP Guarantee: Yes

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, 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.

Professional Recognition

The QUT Law degree is an approved degree for the purposes of the Legal Practitioners Admission Rules. Accordingly, it enables graduates to satisfy the academic requirements for admission to practise as a solicitor and/or barrister in all Australian states and territories. The QUT LLB degree qualification is also recognised for admission purposes in West and East Malaysia, Fiji and Papua New Guinea.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

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
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 2010

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
LWB145	Legal Foundations A
LWB147	Torts A

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems
LWB146	Legal Foundations B
LWB148	Torts B

Year 2, Semester 1	
	IT Breadth Option
	IT Breadth Option
LWB136	Contracts A
LWB238	Fundamentals of Criminal Law

Year 2, Semester 2	
	IT Breadth Option
	IT Breadth Option
LWB137	Contracts B
LWB239	Criminal Responsibility

Year 3, Semester 1	
INB201	Scalable Systems Development
	IT Specialist Option
LWB240	Principles of Equity
LWB243	Property Law A

Year 3, Semester 2	
INB300	Professional Practice in IT
	IT Specialist Option
LWB241	Trusts
LWB244	Property Law B

Year 4, Semester 1	
INB301	The Business of IT
	IT Specialist Option
LWB242	Constitutional Law
LWB432	Evidence

Year 4, Semester 2	
INB302	Capstone Project
	IT Specialist Option
LWB334	Corporate Law
	Law Elective

Year 5, Semester 1	
LWB335	Administrative Law
LWB431	Civil Procedure
	Law Elective
	Law Elective

Year 5, Semester 2	
LWB433	Professional Responsibility
	Law Elective
	Law Elective
	Law Elective

Year 6, Semester 1	
	Law Elective
	Law Elective
	Law Elective
	Law Elective

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	Systems Architecture
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

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

1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB343	Advanced Data Mining and Data Warehousing
	Please note: INB343 not offered in 2010
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	Computer Network Administration
INB352	Network Planning and Deployment
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
INB860	Computational Intelligence for Control and Embedded Systems

Please note:

INB343 & INB323 are not offered in 2010

Law Elective Information

Law Electives

Further information regarding Law Electives can be found at: http://www.law.qut.edu.au/study/courses/ugrad/lselect.jsp

Transitional notes for law units for students who have transferred from IF38 to IX53

* LWB142 and LWB144 are now law contextual elective units.
* LWB145 Legal Foundations A was LWB141 Legal Institutions and Method.
* LWB146 Legal Foundations B was LWB143 Legal Research and Writing (prerequisite LWB141).
* LWB147 Torts A was LWB138 Fundamentals of Torts.
* LWB148 Torts B was LWB139 Select Issues in Torts (prerequisite LWB138).
* LWB242 Constitutional Law was LWB231 Introduction to Public Law and LWB235 Australian Federal Constitutional Law.
* LWB243 Property Law was LWB236 Real Property A (prerequisite LWB143 & LWB240).
* LWB244 Property Law B was LWB237 Real Property B (prerequisite LWB236).
* LWB333 Theories of Law is now an elective

unit.

* LWB335 Administrative Law was LWB331 Administrative is now (prerequisite LWB231).

* LWB434 Advanced Research and Legal Reasoning is now LWB435 Legal Research in Practice (prerequisite LWB143/LWB145) and it is now an elective unit.

IX53 - Bachelor of Information Technology/Bachelor of Laws Course structure 2009

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
LWB145	Legal Foundations A
LWB147	Torts A

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems
LWB146	Legal Foundations B
LWB148	Torts B

Year 2, Semester 1	
	IT Breadth Option
	IT Breadth Option
LWB136	Contracts A
LWB238	Fundamentals of Criminal Law

Year 2, Semester 2	
	IT Breadth Option
	IT Breadth Option
LWB137	Contracts B
LWB239	Criminal Responsibility

Year 3, Semester 1	
INB201	Scalable Systems Development
	IT Specialist Option
LWB240	Principles of Equity
LWB243	Property Law A

Year 3, Semester 2	
INB300	Professional Practice in IT
	IT Specialist Option
LWB241	Trusts
LWB244	Property Law B

Year 4, Semester 1	
INB301	The Business of IT
	IT Specialist Option
LWB242	Constitutional Law
LWB432	Evidence

Year 4, Semester 2	
INB302	Capstone Project
	IT Specialist Option
LWB334	Corporate Law
	Law Elective

Year 5, Semester 1	
LWB335	Administrative Law
LWB431	Civil Procedure
	Law Elective
	Law Elective

Year 5, Semester 2	
LWB433	Professional Responsibility
	Law Elective
	Law Elective
	Law Elective

Year 6, Semester 1	
	Law Elective
	Law Elective
	Law Elective
	Law Elective

Potential Careers:

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

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

Year offered: 2010
Admissions: Yes
CRICOS code: 006384G
Course duration (full-time): 5 years
Domestic fees (indicative): 2010: CSP $3,200 (indicative) per semester
International Fees (indicative): 2010: $11,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419512
Past rank cut-off: 79
Past OP cut-off: 11
OP Guarantee: Yes
Assumed knowledge: English (4,SA), Maths B (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 480
Course coordinator: Dr R.Mahalinga-Iyer (Engineering), Mr Richard Thomas (Science & Technology)
Discipline coordinator: Dr Jasmine Banks (Engineering), Mr Richard Thomas (Information Technology Major)
Campus: Gardens Point

Course Description

This degree equips you to build and apply creative, innovative IT solutions across diverse industries. A hands-on, real world based curriculum gives you the opportunity to explore a wide range of areas within the two strands of this degree, and gain deep understanding within your chosen area speciality, such as networking, software engineering, data warehousing, business process modelling, enterprise systems, information management, web technologies, or digital societies. You will experience an innovative, hands-on approach to learning through projects where you develop IT systems. You will be able to gain entrepreneurial skills if you wish to learn how to develop an idea into a commercial opportunity. You learn to harness your creativity and people skills to maximise the impact of your technical know-how in the booming IT marketplace. It positions you for a challenging and rewarding career within the global economy. Full-time students are eligible for the Cooperative Education Program; paid industry work experience with credit towards your degree. Students are also offered many other work-integrated learning opportunities where you receive first-hand industry experience.

The engineering component consists of studies in electronic systems engineering while the information technology component concentrates on software engineering. These studies integrate into a cohesive course which gives a wide and advanced study of modern electronic and computing systems. This double degree produces computer and electronic engineers especially suited for the development and application of electronic and computer systems in all areas of industry.

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Electronics)/Bachelor of Information Technology must obtain at least 60 days of industrial experience in an engineering environment as part of the Work Integrated Learning unit.

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).

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).

Career Outcomes

Many graduates find employment in government instrumentalities such as communications, railways, electricity supply, hospitals, transport and in private organisations that are using electronics, electronic systems, computers and microprocessors to monitor, control, communicate and optimise processes and production.

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.

Recommended Study

Chemistry, Maths C and Physics.

The QUT Entry Bonus Scheme applies to students completing Year 12 or equivalent in 2009 and applying for entry in 2010.

QUT will award two bonus QTAC ranks for students who successfully complete Engineering Technology, Maths C or LOTE (Language Other Than English) in secondary school and apply to start a Bachelor of Engineering at QUT in 2010.

Professional Recognition

This degree meets the requirements for membership of Engineers Australia. Graduates of the Bachelor of Information Technology component meet the knowledge requirements for admission to the Australian Computer Society (ACS).

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

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Further Information

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

Engineering Coordinator
Phone +61 7 3138 1993
Fax +61 7 3138 1516
email: bee.enquiries@qut.edu.au

Science and Technology Coordinator
Phone +61 7 3138 2782
Fax +61 7 3138 2703
email: enquiry.scitech@qut.edu.au

Full-time Course structure – Students commencing in 2010

Year 1, Semester 1	
ENB100	Introducing Professional Learning
	OR
INB103	Industry Insights
ENB120	Electrical Energy and Measurements
INB104	Building IT Systems
MAB125	Foundations of Engineering Mathematics
	OR
MAB126	Mathematics for Engineering 1

Year 1, Semester 2	
ENB130	Mechanical and Thermal Energy
ENB200	Introducing Sustainability
INB102	Emerging Technology
MAB126	Mathematics for Engineering 1
	OR
MAB127	Mathematics for Engineering 2

Year 2, Semester 1	
ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
	OR
INB101	Impact of IT
ENB250	Electrical Circuits
MAB127	Mathematics for Engineering 2
	OR
MAB233	Engineering Mathematics 3

Year 2, Semester 2	
ENB150	Introducing Engineering Design
ENB242	Introduction To Telecommunications
ENB243	Linear Circuits and Systems
	IT Breadth Option Unit

Year 3, Semester 1	
ENB110	Engineering Statics and Materials
ENB241	Software Systems Design
	IT Breadth Option Unit
	IT Breadth Option Unit

Year 3, Semester 2	
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice
ENB343	Fields, Transmission and Propagation
	IT Breadth Option Unit

Year 4, Semester 1	
ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
INB201	Scalable Systems Development

Year 4, Semester 2	
ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
MAB233	Engineering Mathematics 3
	OR

	Electrical Engineering Selective
	IT Specialist Option Unit

Year 5, Semester 1

ENB346	Digital Communications
	OR
ENB350	Real-time Computer-based Systems
BEB801	Project 1
	OR
INB309-1	Major Project
INB301	The Business of IT
	IT Specialist Option Unit

Year 5, Semester 2

BEB701	Work Integrated Learning 1
BEB802	Project 2
	OR
INB309-2	Major Project
	IT Specialist Option Unit
	IT Specialist Option Unit

Electrical Engineering Selectives

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

Full-time Course structure – Students commencing in 2009

Year 1, Semester 1

BEB100	Introducing Professional Learning
	OR
INB103	Industry Insights
INB104	Building IT Systems
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B
PCB136	Engineering Physics 1C

Year 1, Semester 2

BEB200	Introducing Sustainability
ENB103	Electrical Engineering
INB102	Emerging Technology
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B

Year 2, Semester 1

ENB101	Engineering Mechanics 1
ENB104	Engineering Materials
ENB240	Introduction To Electronics
ENB242	Introduction To Telecommunications

Year 2, Semester 2

ENB243	Linear Circuits and Systems
INB101	Impact of IT
INB270	Programming
	IT Breadth Option Unit

Year 3, Semester 1

ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
MAB233	Engineering Mathematics 3
	IT Breadth Option Unit

Year 3, Semester 2

ENB241	Software Systems Design
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice
	IT Breadth Option Unit

Year 4, Semester 1

ENB301	Instrumentation and Control
ENB350	Real-time Computer-based Systems
INB201	Scalable Systems Development
	IT Specialist Option Unit

Year 4, Semester 2

ENB343	Fields, Transmission and Propagation
ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications

Year 5, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
	OR
INB309-1	Major Project
INB301	The Business of IT
	IT Specialist Option Unit

Year 5, Semester 2

BEB802	Project 2
	OR
INB309-2	Major Project
	IT Specialist Option Unit
	IT Specialist Option Unit
	Electrical Engineering Selective

Electrical Engineering Selectives	
ENB231	Materials and Manufacturing 1
ENB334	Design For Manufacturing
ENB350	Real-time Computer-based Systems
ENB352	Communication Environments For Embedded Systems
ENB436	Mechatronics System Design
ENB440	RF and Applied Electromagnetics
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB454	Power System Management
ENB455	Power Electronics
ENB456	Energy
ENB457	Controls, Systems and Applications
ENB458	Modern Control Systems
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

IT Breadth Option Unit List

IT Breadth Option Units	
	You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.
INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Systems Architecture
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units	
	You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.
1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB343	Advanced Data Mining and Data Warehousing
	Please note: INB343 not offered in 2010
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	Computer Network Administration
INB352	Network Planning and Deployment
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
INB860	Computational Intelligence for Control and Embedded Systems

Please note:

INB343 & INB323 are not offered in 2010

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

Year offered: 2010
Admissions: Yes
CRICOS code: 020327M
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $3,100 (indicative) per semester
International Fees (indicative): 2010: $11,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419302
Past rank cut-off: 77
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
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

Course Description

The science component of the course offers students a choice of one of nine majors: Biochemistry, Biotechnology, Chemistry, Ecology, Environmental Science, Forensic Science, Geoscience, Microbiology and Physics. See the Bachelor of Applied Science (SC01) course information for more details. So that students can complete the double degree in a shorter period of time, co-majors are to be taken from the information technology program.

This degree equips you to build and apply creative, innovative IT solutions across diverse industries. A hands-on, real world based curriculum gives you the opportunity to explore a wide range of areas within the two strands of this degree, and gain deep understanding within your chosen area speciality, such as networking, software engineering, data warehousing, business process modelling, enterprise systems, information management, web technologies, or digital societies. You will experience an innovative, hands-on approach to learning through projects where you develop IT systems. You will be able to gain entrepreneurial skills if you wish to learn how to develop an idea into a commercial opportunity. You learn to harness your creativity and people skills to maximise the impact of your technical know-how in the booming IT marketplace. It positions you for a challenging and rewarding career within the global economy. Full-time students are eligible for the Cooperative Education Program; paid industry work experience with credit towards your degree. Students are also offered many other work-integrated learning opportunities where you receive first-hand industry experience.

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

Recommended Study

At least one of the sciences. For the majors in biochemistry, biotechnology, forensic science and microbiology - Biological Science and Chemistry are recommended; for the major in physics - Maths C is recommended.

Career Outcomes

Recent rapid technological advances in scientific equipment have led to a high demand for graduates qualified in both a science discipline and information technology. This double degree qualifies you for this niche area of employment. Alternatively you may pursue a career as a science professional with the added dimension of advanced technological skills. Or you may choose to work in an information technology specialist area and find that your broad range of skills makes you particularly attractive to employers in industries at the forefront of scientific discoveries. IT is now an integral part of all commercial, industrial and government activities.

Professional Recognition

Graduates will satisfy the requirements for membership in the relevant professional body for their chosen science major. See the Bachelor of Applied Science course for details. Graduates are also eligible for membership of the Australian Computer Society (ACS).

Entry Requirements

Year 12 or equivalent
Prerequisites: Nil
Primary Fields: B or C
Secondary Fields: B or C

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 School of 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, 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 Robert Johnson
Phone: +61 7 3138 2016
Email: ra.johnson@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 top

IX55 Bachelor of Applied Science/Bachelor of Information Technology Course structure

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
	Science Core Unit
	Science Core Unit

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems
	Science Core Unit
	Science Core Unit

Year 2, Semester 1	
	IT Breadth Unit Option
	IT Breadth Unit Option
	Science Core Unit
	Science Core Unit

Year 2, Semester 2

	IT Breadth Unit Option
	IT Breadth Unit Option
	Science Core Unit
	Science Core Unit

Year 3, Semester 1

INB201	Scalable Systems Development
	IT Specialisation Unit Option
	Science Major Unit
	Science Major Unit

Year 3, Semester 2

INB300	Professional Practice in IT
	IT Specialisation Unit Option
	Science Major Unit
	Science Major Unit

Year 4, Semester 1

INB301	The Business of IT
	IT Specialisation Unit Option
	Science Major Unit
	Science Major Unit

Year 4, Semester 2

INB302	Capstone Project
	IT Specialisation Unit Option
	Science Major Unit
	Science Major Unit

IT Breadth Option Unit List

IT Breadth Option Units

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

INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Systems Architecture
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

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

1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB343	Advanced Data Mining and Data Warehousing
	Please note: INB343 not offered in 2010
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	Computer Network Administration
INB352	Network Planning and Deployment
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
INB860	Computational Intelligence for Control and Embedded Systems

Please note:

INB343 & INB323 are not offered in 2010

Course structure - Major in Biochemistry

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 3, Semester 2

LQB481	Biochemical Pathways and Metabolism
LQB483	Molecular Biology Techniques

Year 4, Semester 1

LQB581	Functional Biochemistry
LQB582	Biomedical Research Technologies

Year 4, Semester 2

LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering

Course structure - Major in Biotechnology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 3, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics

Year 4, Semester 1

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

Year 4, Semester 2

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

Course structure - Major in Chemistry

Year 1, Semester 1

SCB111	Chemistry 1
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB112	Cellular Basis of Life
SCB121	Chemistry 2

Year 2, Semester 1

MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems

Year 2, Semester 2

SCB123	Physical Science Applications
SCB131	Experimental Chemistry

Year 3, Semester 1

PQB312	Analytical Chemistry For Scientists and

	Technologists
PQB331	Structure and Bonding

Year 3, Semester 2

PQB401	Reaction Kinetics, Thermodynamics and Mechanisms
PQB442	Chemical Spectroscopy

Year 4, Semester 1

PQB502	Advanced Physical Chemistry
PQB531	Organic Mechanisms and Synthesis

Year 4, Semester 2

PQB631	Advanced Inorganic Chemistry
PQB642	Chemical Research

Course structure - Major in Ecology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB122	Cell and Molecular Biology

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

NQB201	Planet Earth
NQB202	History of Life on Earth

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2

NQB421	Experimental Design
NQB422	Genetics and Evolution

Year 4, Semester 1

NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management

Year 4, Semester 2

NQB622	Conservation Biology
NQB623	Ecological Systems

Course structure - Major in Environmental Science

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

NQB202	History of Life on Earth
SCB123	Physical Science Applications

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2

NQB403	Soils and the Environment
NQB421	Experimental Design

Year 4, Semester 1

NQB501	Environmental Modelling
NQB502	Field Methods in Natural Resource Sciences

Year 4, Semester 2

NQB601	Sustainable Environmental Management
NQB602	Environmental Chemistry

Course structure - Major in Forensic Science

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

SCB123	Physical Science Applications
SCB131	Experimental Chemistry

Year 3, Semester 1

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

Year 3, Semester 2

JSB979	Forensic Scientific Evidence
PQB312	Analytical Chemistry For Scientists and Technologists

Year 4, Semester 1

PQB513	Instrumental Analysis
PQB584	Forensic Physical Evidence

Year 4, Semester 2

LQB680	Forensic DNA Profiling
PQB684	Forensic Analysis

Course structure - Major in Geoscience

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

NQB201	Planet Earth
SCB123	Physical Science Applications

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

NQB202	History of Life on Earth
SCB222	Exploration of the Universe

Year 3, Semester 1

NQB311	Mineralogy
NQB314	Sedimentary Geology

Year 3, Semester 2

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

Year 4, Semester 1

NQB502	Field Methods in Natural Resource Sciences
NQB513	Geophysics

Year 4, Semester 2

NQB602	Environmental Chemistry
NQB614	Groundwater Systems

Course structure - Major in Microbiology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB386	Microbial Structure and Function

Year 3, Semester 2

LQB483	Molecular Biology Techniques
LQB486	Clinical Microbiology 1

Year 4, Semester 1

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

Year 4, Semester 2

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

Course structure - Major in Physics

Year 1, Semester 1

MAB121	Calculus and Differential Equations
SCB111	Chemistry 1

Year 1, Semester 1

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
PQB251	Waves and Optics

Year 3, Semester 1

MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 3, Semester 2

PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation

Year 4, Semester 1

PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques

Year 4, Semester 2

PQB650	Advanced Theoretical Physics
PQB651	Experimental Physics

Potential Careers:

Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Data Communications Specialist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist, Laboratory Technician (Chemistry), Marine Scientist, Medical Physicist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Network Administrator, Network Manager, Physicist, Plant Biotechnologist, Population Ecologist, Virologist.

Bachelor of Creative Industries/Bachelor of Information Technology (IX56)

Year offered: 2010
Admissions: Yes
CRICOS code: 059227E
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $3,300 (indicative) per semester
International Fees (indicative): 2010: $10,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 409872
Past rank cut-off: 84
Past OP cut-off: 9
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Head, Undergraduate Studies (Creative Industries); IT: Mr Richard Thomas (enquiry.scitech@qut.edu.au)
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

Entry Requirements

Year 12 or equivalent
Prerequisites: Nil
Assumed Knowledge: English (4,SA), Maths A, B or C (4,SA)
Primary Fields: B
Secondary Fields: C
OP Guarantee: Yes

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 School of 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.

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.

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 and Technology Coordinator
Richard Thomas
Phone: +61 7 3138 2782
Email: enquiri.scitech@qut.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 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	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	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
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
DEB102	Introducing Design History
KVB102	Modernism
KVB103	Australian Art

KVB108	Contemporary Asian Visual Culture
KVB211	Post 1945 Art
KVB212	Australian Art, Architecture and Design
KVB304	Contemporary Art Issues
KVB306	Video Art and Culture

Creative and Professional Writing

Description: The aim of this major is to prepare students to graduate with adequate skills and knowledge in the area of creative and professional writing; to provide a thorough grounding in a variety of genres that include fiction, creative non-fiction, media writing and corporate writing and editing, thereby equipping graduates with the versatility required of professional writers; to enhance the critical, analytical and peer-reviewing skills of students; to provide an understanding of creative writing in its social and generic contexts.

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

Instructions: Of the eight units you need to complete, you must select at least three units coded 200 or above.

KWB101	Introduction to Creative Writing
KWB102	Media Writing
KWB103	Persuasive Writing
KWB104	Creative Writing: The Short Story
KWB106	Corporate Writing and Editing
KWB107	Creative Non-Fiction
KWB206	Youth and Children's Writing
KWB207	Great Books: Creative Writing Classics
KWB211	Stylistics and Poetics
KWB303	Writing and Publishing Industry
KWB313	Novel and Memoir

Dance Studies

Description: This major aims to provide a broad grounding in practical and theoretical aspects of dance. You will gain skills in contemporary dance, ballet, commercially driven genres, choreography and critical thinking and writing together with an understanding of the social and historical context of ballet, contemporary dance, and popular and world dance.

Assumed Knowledge: Previously acquired knowledge or skill IS required for you to undertake this major. It is essential that you be physically able, fit and have basic knowledge in a dance technique, either ballet, jazz or contemporary dance.

Instructions: Of the eight units you need to complete, you must select at least two units coded 200 or above.

KDB103	Dance Technique Studies 1
KDB104	Dance Technique Studies 2
KDB105	Architecture of the Body
KDB106	Dance Analysis
KDB107	Choreographic Studies 1
KDB108	World Dance
KDB109	Funk, Tap and all that Jazz
KDB110	Deconstructing Dance in History
KDB204	Australian Dance
KDB205	Dance in Education
KDB225	Music Theatre Skills

*Please note that the Dance Studies major in the Bachelor of Creative Industries is NOT a pathway to secondary dance teaching

*KDB205 will not be offered in 2010.

Digital Media

Description: Online and interactive technologies now dominate creative and professional life. This major provides you with the opportunity to develop websites, multimedia projects, wikis and blogs, as well as allowing you to understand the guiding principals behind these new modes of communication and creative practice.

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

KCB101	Introduction to Media and Communication: Texts
SELECT	Either KCB102 or KJB101:
KCB102	Media Myth Busting 1
KJB101	Digital Journalism
SELECT	Either KCB104 or KPB110:
KCB104	Introduction to Media and Communications: Industries
KPB110	The Movie, TV & New Media Business
KCB201	New Media 1: Information and Knowledge
KCB202	New Media 2: Applications and Implications
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.

AMB207	Entertainment Marketing
BSB126	Marketing
KXB101	Introduction to Entertainment
KXB102	Global Entertainment
KXB201	Entertainment Practice: Balancing Entertain ment and Creativity
KXB301	Entertainment Industries Map
LWS008	Entertainment Law
SELECT	One of the following units:
AMB200	Consumer Behaviour
KCB301	Media Audiences
KPB101	Introduction to Film, TV and New Media Production
KWB102	Media Writing

Note: KXB301 will first be offered in 2012. LWS008 will first be offered in 2011.

Fashion

Description: This major has been designed to offer a mix of theoretical and practical units. The theory units will develop your knowledge and understanding of the history, industry and consumption of fashion and will introduce you to the critical legal issues surrounding the production and distribution of fashion. The practical units provide you with a variety of options to develop fashion related skills focusing on textile design, portfolio development and fashion journalism.

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

KCB203	Consumption Matters: Consumer Cultures and Identity
KFB103	Introduction to Fashion
KFB106	Unspeakable Beauty: A History of Fashion and Style
KFB107	Drawing For Fashion
KFB205	Fashion and Style Journalism
KFB206	Fashion and Modernity
KFB207	Contemporary Fashion
KFB208	Fashion Portfolio
KFB209	Ragtrade: Wholesaling Fashion
KFB304	Fashion, Law and the Real World
KVB213	Graphic Investigation

Film, Television and Screen

Description: The aim of this major is to provide students with a range of understandings in the theory and practice of film, television and screen. This study area aims to enhance creative, technical and organisational abilities as well as building story telling and communication skills.

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

KPB101	Introduction to Film, TV and New Media Production
KPB104	Film and Television Production Resource Management
KPB105	Narrative Production
KPB109	Film and TV History
KPB110	The Movie, TV & New Media Business
KPB112	TV and Film Genres
KPB113	TV and Film Text Analysis
KPB202	Film and Television Business Skills: Entrepreneurship and Investment
KPB203	Australian Film
KPB205	Documentary Theory and Practice
KPB206	International Cinema
KPB212	Australian Film and TV
KPB303	Critical Thinking About Television
KPB313	How to be a Producer

Interactive and Visual Design

Description: This major will provide you with the design concepts and principles, practical skills and working methods needed by a contemporary designer of visual and interactive media. You will learn how to design effectively for print and electronic media, Web and mobile media and computer games and become equipped with a versatile set of design practices to support you to enter careers in marketing, web design, electronic publishing, interaction design and the creative aspects of game design.

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

KIB101	Visual Communication
KIB102	Visual Interactions
KIB103	Introduction to Web Design and Development
KIB104	Digital Media
KIB214	Design for Interactive Media
KIB216	Advanced Web Design
KIB230	Interface and Information Design
KIB315	Contemporary Issues in Digital Media
KVB105	Drawing for Design
KVB204	Graphic Design

Journalism, Media and Communication

Description: This major offers you a range of options to develop an understanding of the parameters of the journalism and professional communication fields. You can choose a mix of units to suit your career aspirations. If you choose to focus more on the Journalism (KJB) units, the major will introduce you to a range of journalism writing styles and offers an insight into some specialist areas of reporting. If you choose to focus more on the Media and Communication (KCB) units, it has been designed to enable you to develop the skills and knowledge to prepare media material for organisations that wish to build, and maintain, a media profile.

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

SELECT	Either KCB102 or KJB101:
KCB102	Media Myth Busting 1
KJB101	Digital Journalism
KJB120	Newswriting
KCB104	Introduction to 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	Managing Communication Resources
KJB337	Public Affairs Reporting

Literary Studies

Description: The aims of this major are to prepare students to graduate with adequate skills and knowledge in the area of literary and cultural studies; to provide a thorough grounding in a range of texts, both literary and popular, ranging from Shakespeare to nineteenth and twentieth century literature and culture; to provide graduates with enhanced skills in critical thinking, writing and analysis; to provide graduates with an understanding of the social and historical context of literary and popular written texts; to provide some understanding of the major approaches in literary theory.

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

KWB108	Introduction To Literary Studies
KWB109	Writing Australia
KWB206	Youth and Children's Writing
KWB207	Great Books: Creative Writing Classics
KWB208	Modern Times (Literature and Culture in the 20th Century)
KWB209	Shakespeare, Then and Now
KWB308	Wonderlands: Literature and Culture in the 19th Century
KWB309	Popular Fictions, Popular Culture

Music

Description: This major aims to impart a broad understanding of music practice in contemporary social, cultural and economic contexts. It aims to provide students with a combination of practical and theoretical skills to support a career in music within administrative, business, or organisational areas.

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

KDB225	Music Theatre Skills
KKB345	Creative Industries Project 1
KMB003	Sex Drugs Rock 'n' roll
KMB004	World Music
KMB107	Sound, Image, Text
KMB119	Music and Sound Production 1
KMB122	Music and Sound Concepts 1
KMB129	Music and Sound Production 2
KMB132	Music and Sound Concepts 2
KMB200	Music Scenes and Subcultures
KMB301	The Music Industry

Creative Industries Transitions to New Professional Environments Unit Options

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

KKB341	Workplace Learning 1
KKB342	Workplace Learning 2
KKB343	Service Learning 1
KKB344	Service Learning 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

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	Systems Architecture
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

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

1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB343	Advanced Data Mining and Data Warehousing
	Please note: INB343 not offered in 2010
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	Computer Network Administration
INB352	Network Planning and Deployment
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
INB860	Computational Intelligence for Control and Embedded Systems

Please note:

INB343 & INB323 are not offered in 2010

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: 2010
Admissions: Yes
CRICOS code: 059226F
Course duration (full-time): 4 Years
Domestic fees (indicative): 2010: CSP $2,850 (indicative) per semester
International Fees (indicative): 2010: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419552
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Course coordinator: Mr Richard Thomas (Information Systems), Dr Tim Moroney (Mathematical Sciences)
Campus: Gardens Point

Course Description

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.

This degree equips you to build and apply creative, innovative IT solutions across diverse industries. A hands-on, real world based curriculum gives you the opportunity to explore a wide range of areas within the two strands of this degree, and gain deep understanding within your chosen area speciality, such as networking, software engineering, data warehousing, business process modelling, enterprise systems, information management, web technologies, or digital societies. You will experience an innovative, hands-on approach to learning through projects where you develop IT systems. You will be able to gain entrepreneurial skills if you wish to learn how to develop an idea into a commercial opportunity. You learn to harness your creativity and people skills to maximise the impact of your technical know-how in the booming IT marketplace. It positions you for a challenging and rewarding career within the global economy. Full-time students are eligible for the Cooperative Education Program; paid industry work experience with credit towards your degree. Students are also offered many other work-integrated learning opportunities where you receive first-hand industry experience.

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, security analyst, data communications specialist, information manager, electronic commerce developer, games developer, multimedia specialist, network administrator, database manager, web developer, mathematician, or statistician.

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

Professional Recognition

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

Entry Requirements

Year 12 or equivalent
Prerequisites: Nil
Primary Fields: C
Secondary Fields: B

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 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 School of 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.

Further Information

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

Information Systems 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

Course Structure for Students with Four Semesters of Senior Mathematics B and Senior Mathematics C

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1

Year 2, Semester 1	
	IT Breadth Unit Option
	IT Breadth Unit Option
MAB101	Statistical Data Analysis 1
MAB312	Linear Algebra

Year 2, Semester 2	
	IT Breadth Unit Option
	IT Breadth Unit Option
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Year 3, Semester 1	
INB201	Scalable Systems Development
	IT Specialisation Unit Option
MAB311	Advanced Calculus
	Level 2 or 3 Maths Unit

Year 3, Semester 2	
INB300	Professional Practice in IT
	IT Specialisation Unit Option
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Year 4, Semester 1	
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	Capstone Project
	IT Specialisation Unit Option
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Course Structure for Students with Four Semesters of Senior Mathematics B Only

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry

Year 2, Semester 1	
	IT Breadth Unit Option
	IT Breadth Unit Option
MAB220	Computational Mathematics 1
MAB312	Linear Algebra

Year 2, Semester 2	
	IT Breadth Unit Option
	IT Breadth Unit Option
MAB210	Statistical Modelling 1
	Level 2 or 3 Maths Unit

Year 3, Semester 1	
INB201	Scalable Systems Development
	IT Specialist Unit Option
MAB311	Advanced Calculus
	Level 2 or 3 Maths Unit

Year 3, Semester 2	
INB300	Professional Practice in IT
	IT Specialist Unit Option
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Year 4, Semester 1	
INB301	The Business of IT
	IT Specialist Unit Option
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Year 4, Semester 2	
INB302	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
MAB481	Visualisation and Data Analysis
	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
MAB681	Advanced Visualisation and Data Analysis
	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	Systems Architecture
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units	
	You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.
1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB343	Advanced Data Mining and Data Warehousing
	Please note: INB343 not offered in 2010
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	Computer Network Administration
INB352	Network Planning and Deployment
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
INB860	Computational Intelligence for Control and Embedded Systems

Please note:

INB343 & INB323 are not offered in 2010

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: 2010
Admissions: Yes
CRICOS code: 059595C
Course duration (full-time): 4 Years
Domestic fees (indicative): 2010: CSP $4,200 (indicative) per semester
International Fees (indicative): 2010: $10,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419202
Past rank cut-off: 79
Past OP cut-off: 11
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Course coordinator: Mr Richard Thomas (IT23), Dr Erica French (Business)
Discipline coordinator: Ms Ros Kent (Accountancy); Ms Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr Anup Basu (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Kavoos Mohannak (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

Course Description

This degree equips you to build and apply creative, innovative IT solutions across diverse industries. A hands-on, real world based curriculum gives you the opportunity to explore a wide range of areas within the two strands of this degree, and gain deep understanding within your chosen area speciality, such as networking, software engineering, data warehousing, business process modelling, enterprise systems, information management, web technologies, or digital societies. You will experience an innovative, hands-on approach to learning through projects where you develop IT systems. You will be able to gain entrepreneurial skills if you wish to learn how to develop an idea into a commercial opportunity. You learn to harness your creativity and people skills to maximise the impact of your technical know-how in the booming IT marketplace. It positions you for a challenging and rewarding career within the global economy. Full-time students are eligible for the Cooperative Education Program; paid industry work experience with credit towards your degree. Students are also offered many other work-integrated learning opportunities where you receive first-hand industry experience.

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.

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).

Entry Requirements

Year 12 or equivalent
Prerequisites: Nil
Assumed Knowledge: English (4,SA), Maths A, B or C (4,SA)
Primary Fields: B or C
Secondary Fields: B or C
OP Guarantee: Yes

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 School of 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.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaire, portfolio, audition, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

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

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems

Year 2, Semester 1	
	IT Breadth Option Unit
	IT Breadth Option Unit

Year 2, Semester 2	
	IT Breadth Option Unit
	IT Breadth Option 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

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

Year 4, Semester 1	
INB301	The Business of IT
	INB300 and INB301 can only be taken after a student has completed a minimum of 192 credit points of study.
	IT Specialist Option Unit

Year 4, Semester 2	
INB302	Capstone Project
	INB301 must be completed before enrolling in INB302.
	IT Specialist Option 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	Systems Architecture
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

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

1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB343	Advanced Data Mining and Data Warehousing
	Please note: INB343 not offered in 2010
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	Computer Network Administration
INB352	Network Planning and Deployment
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
INB860	Computational Intelligence for Control and Embedded Systems

Please note:

INB343 & INB323 are not offered in 2010

IX58 - Business component (Accountancy) - course structure

Year 1, Semester 1

BSB110	Accounting
BSB115	Management
	Information Technology unit
	Information Technology unit

Year 1, Semester 2

BSB123	Data Analysis
BSB126	Marketing
	Information Technology unit
	Information Technology unit

Year 2, Semester 1

BSB111	Business Law and Ethics
BSB113	Economics
	Information Technology unit
	Information Technology unit

Year 2, Semester 2

AYB200	Financial Accounting
AYB225	Management Accounting
	Information Technology unit
	Information Technology unit

Year 3, Semester 1

EFB210	Finance 1
AYB219	Taxation Law
	Information Technology unit
	Information Technology unit

Year 3, Semester 2

AYB230	Corporations Law
AYB340	Company Accounting
	Information Technology unit
	Information Technology unit

Year 4, Semester 1

AYB311	Financial Accounting Issues

AYB321	Strategic Management Accounting
	Information Technology unit
	Information Technology unit

Year 4, Semester 2

AYB301	Audit and Assurance
AYB339	Accountancy Capstone
	Information Technology unit
	Information Technology unit

IX58 - Business component (Advertising) - course structure

Year 1, Semester 1

BSB126	Marketing
BSB113	Economics
	Information Technology unit
	Information Technology unit

Year 1, Semester 2

BSB110	Accounting
BSB115	Management
	Information Technology unit
	Information Technology unit

Year 2, Semester 1

BSB124	Working in Business
BSB119	Global Business
	Information Technology unit
	Information Technology unit

Year 2, Semester 2

AMB200	Consumer Behaviour
AMB220	Advertising Theory and Practice
	Information Technology unit
	Information Technology unit

Year 3, Semester 1

AMB201	Marketing and Audience Research
BSB111	Business Law and Ethics
	Information Technology unit
	Information Technology unit

Year 3, Semester 2

AMB318	Advertising Copywriting
AMB319	Media Planning
	Information Technology unit
	Information Technology unit

Year 4, Semester 1

AMB320	Advertising Management
AMB330	Advertising Planning Portfolio
	Information Technology unit
	Information Technology unit

Year 4, Semester 2

AMB339	Advertising Campaigns
BSB123	Data Analysis
	Information Technology unit
	Information Technology unit

IX58 - Business component (Economics) - course structure

Year 1, Semester 1

BSB113	Economics
BSB115	Management
	Information Technology unit
	Information Technology unit

Year 1, Semester 2

BSB124	Working in Business
BSB123	Data Analysis
	Information Technology unit
	Information Technology unit

Year 2, Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics
	Information Technology unit
	Information Technology unit

Year 2, Semester 2

EFB222	Quantitative Methods For Economics and Finance
EFB223	Economics 2
	Information Technology unit
	Information Technology unit

Year 3, Semester 1

EFB330	Intermediate Macroeconomics
EFB331	Intermediate Microeconomics
	Information Technology unit
	Information Technology unit

Year 3, Semester 2

	Choice Units or remaining Business Faculty Core Units
	Choice Units or remaining Business Faculty Core Units

Year 4, Semester 1

	Choice Units or remaining Business Faculty

Core Units

Choice Units or remaining Business Faculty Core Units

Year 4, Semester 2

EFB338	Contemporary Application of Economic Theory
	Choice Units or remaining Business Faculty Core Units
	Information Technology unit
	Information Technology unit

Economics Choice Unit List

Choose any four 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 Faculty Core Units which are to 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 uniti

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: 2010
Admissions: Yes
CRICOS code: 063030F
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $3,110 (indicative) per semester
International Fees (indicative): 2010: $10,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419652
Past rank cut-off: 79
Past OP cut-off: 11
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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

In this double degree students complete the requirements for two separate degrees in four years. The course consists of units in both corporate systems management and justice. In the corporate systems management component students are taught the interrelationship between information, technology, business and people. This component develops the knowledge and skills needed to understand and communicate business needs, select the right systems and integrate these systems to improve business performance. The justice component comprises of foundation units, after which students then focus on a primary major discipline in either Criminology or Policing. Full time students can take part in the Cooperative Education Program, offering one year paid industry placement and credit towards their degree (subject to satisfying eligibility requirements). Alternatively, in the justice component Professional Placement is available to high achieving students, with a GPA of 5 or more, in their last semester of the justice component of the course.

Justice Majors: Criminology; Policing

Cooperative Education Program

Cooperative Education Program
The School of 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.

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

Recommended course progression

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	
INB121	Socio-technical Systems
INB122	Organisational Databases
JSB172	Professional Criminological Research Skills
JSB175	Social Ethics and the Justice System

Year 2, Semester 2	
INB124	Information Systems Development
INB313	Electronic Commerce Site Development
JSB176	Criminal Law in Context
JSB271	Policy Governance and Justice

Year 3, Semester 1	
INB220	Business Analysis
INB221	Technology Management
JSB273	Crime Research Methods
	CRIMINOLOGY MAJOR:
JSB272	Theories of Crime
	POLICING MAJOR:
JSB274	Policing in Context

Year 3, Semester 2

MGB223	Entrepreneurship and Innovation
INB320	Business Process Modelling
	CRIMINOLOGY MAJOR:
JSB372	Youth Justice
JSB374	Crime Prevention
	POLICING MAJOR:
JSB377	Intelligence and Security
JSB376	Information Management and Analysis
	Instead of JSB376, EXTERNAL students may undertake JSB986
JSB986	Death Investigation

Year 4, Semester 1

INB312	Enterprise Systems Applications
INB322	Information Systems Consulting
JSB371	Indigenous Justice
	CRIMINOLOGY MAJOR:
JSB373	Crime and Punishment
	POLICING MAJOR:
JSB378	Drugs and Crime

Year 4, Semester 2

BSB126	Marketing
INB325	Corporate Systems Management Project
JSB	Justice Elective unit (choose 1 unit from Justice Elective List)
JSB	Justice Elective unit (choose 1 unit from Justice Elective List)

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: 2010
Admissions: Yes
CRICOS code: 063022F
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $4,300 (indicative) per semester
International Fees (indicative): 2010: $10,750 (indicative) per semester
International Entry: February
QTAC code: 419642
Past rank cut-off: 79
Past OP cut-off: 11
Assumed knowledge: English (4, SA) and Math A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Course coordinator: Dr Taizan Chan (Science and Technology); Dr Erica French (Business)
Discipline coordinator: Ms Ros Kent (Accountancy); Ms Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr Anup Basu (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Kavoos Mohannak (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

Course overview

In this double degree students complete the requirements for two separate degrees in four years. The course consists of units in both corporate systems management and business. In the Business component students complete a set of core units to provide a broad-based introduction to business principles and a major from the list below. In the corporate systems management component students are taught the interrelationship between information, technology, business and people. This component develops the knowledge and skills needed to understand and communicate business needs, select the right systems and integrate these systems to improve business performance. Full time students can take part in the Cooperative Education Program, offering one year paid industry placement and credit towards their degree (subject to satisfying eligibility requirements).

Majors: Business: accountancy; advertising; economics; finance; human resource management; international business; management; marketing; and public relations.

Course Design

Students are required to complete 384 credit points comprised of 192 credit points from the Bachelor of Business program and 192 credit points from the Bachelor of Corporate Systems Management Program which includes an industry based project and an IT elective unit.

Business component: Students who commenced in 2010 must complete the 8 Faculty Core Units (BSB115 Management and BSB126 Marketing as part of the Bachelor of Information Technology course requirements) in the Business program together with a 9 unit Major. Students will also complete MGB223 Entrepreneurship and Innovation as part of the Bachelor of Information Technology course requirements.

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).

Cooperative Education Program

The School of 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.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Futher Information

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

Science and Technology Coordaintor
Dr Taizan Chan
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Business Coordaintor
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 Faculty Core Unit - See Appendix 1

	Business Faculty Core Unit - See Appendix 1
INB103	Industry Insights
INB120	Corporate Systems

Year 1, Semester 2

	Business Faculty Core Unit - See Appendix 1
	Business Faculty Core Unit - See Appendix 1
INB123	Project Management Practice
BSB115	Management

Year 2, Semester 1

	Business Faculty Core Unit - See Appendix 1
	Business Faculty Core Unit - See Appendix 1
INB101	Impact of IT
INB122	Organisational Databases

Year 2, Semester 2

	Business Faculty Core Unit - See Appendix 1
	Business Faculty Core Unit - See Appendix 1
INB124	Information Systems Development
INB313	Electronic Commerce Site Development

Year 3, Semester 1

	Business Faculty Major Unit - See Appendix 1
	Business Faculty Major Unit - See Appendix 1
INB220	Business Analysis
INB221	Technology Management

Year 3, Semester 2

	Business Faculty Major Unit - See Appendix 1
	Business Faculty Major Unit - See Appendix 1
BSB126	Marketing
INB320	Business Process Modelling

Year 4, Semester 1

	Business Faculty Major Unit - See Appendix 1
	Business Faculty Major Unit - See Appendix 1
INB312	Enterprise Systems Applications
INB322	Information Systems Consulting

Year 4, Semester 4

	Business Faculty Major Unit - See Appendix 1
	Business Faculty Major Unit - See Appendix 1
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
BSB124	Working in Business

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
MGB223	Entrepreneurship and Innovation

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
	Choose one of:
AMB202	Integrated Marketing Communication

AMB230	Digital Promotions
AMB331	Direct Marketing

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
MGB223	Entrepreneurship and Innovation

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

BSB126	Marketing
	Choice units or remaining Faculty Core Unit
	Choice units or remaining Faculty Core Unit

Year 4 Semester 1

	Choice units or remaining Faculty Core Unit
	Choice units or remaining Faculty Core Unit

Year 4 Semester 2

EFB338	Contemporary Application of Economic Theory
MGB223	Entrepreneurship and Innovation

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 is the remaining Faculty Core Unit to be completed. Please check for 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
MGB223	Entrepreneurship and Innovation

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
EFB333	Introductory Econometrics

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

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
MGB200	Leading Organisations

Year 3 Semester 1

MGB207	Human Resource Issues and Strategy
MGB220	Business Research Methods

Year 3 Semester 2

MGB201	Contemporary Employment Relations
MGB223	Entrepreneurship and Innovation
MGB314	Organisational Consulting and Change

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
BSB123	Data Analysis

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

AMB204	Purchasing and Procurement
AYB227	International Accounting

Year 3 Semester 2

AMB210	Importing and Exporting
MGB223	Entrepreneurship and Innovation
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

BSB111	Business Law and Ethics
BSB124	Working in Business
BSB126	Marketing

Year 2 Semester 1

BSB110	Accounting
BSB123	Data Analysis

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

MGB201	Contemporary Employment Relations
MGB225	Intercultural Communication and Negotiation Skills
AMB252	Business Decision Making

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
MGB223	Entrepreneurship and Innovation

Year 3 Semester 1

AMB200	Consumer Behaviour
AMB220	Advertising Theory and Practice
	OR
	Marketing Choice Unit

Year 3 Semester 2

AMB202	Integrated Marketing Communication
AMB240	Marketing Planning and Management
	OR
AMB201	Marketing and Audience Research
	OR
	Marketing Choice Unit

Year 4 Semester 1

AMB335	E-marketing Strategies
AMB340	Services Marketing

Year 4 Semester 2

AMB336	International Marketing
AMB359	Strategic Marketing

Marketing Choice Unit List

	Choose one from the following:
AMB208	Events Marketing
AMB252	Business Decision Making
AMB310	Internship

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
MGB223	Entrepreneurship and Innovation

Year 3 Semester 2

BSB123	Data Analysis
AMB372	Public Relations Planning
AMB373	Corporate Communication

Year 4 Semester 1

AMB374	Global Public Relations Cases
	Choose one of:
AMB202	Integrated Marketing Communication
AMB208	Events Marketing
AMB310	Internship

Year 4 Semester 2

AMB375	Public Relations Management
AMB379	Public Relations Campaigns

Accountancy Major - Students who commenced in 2008

Year 1 Semester 1

BSB110	Accounting
BSB126	Marketing

Year 1 Semester 2

BSB115	Management
BSB123	Data Analysis
BSB124	Working in Business

Year 2 Semester 1

BSB113	Economics
BSB111	Business Law and Ethics

Year 2 Semester 2

AYB200	Financial Accounting
AYB230	Corporations Law

Year 3 Semester 1

AYB340	Company Accounting
AYB225	Management Accounting

Year 3 Semester 2

AYB219	Taxation Law

AYB221	Computerised Accounting Systems
EFB222	Quantitative Methods For Economics and Finance

Year 4 Semester 1

AYB301	Audit and Assurance
AYB311	Financial Accounting Issues
	OR
AYB321	Strategic Management Accounting

Year 4 Semester 2

EFB210	Finance 1
MGB223	Entrepreneurship and Innovation

Information for Business Students

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

Banking and Finance Major - Students who commenced in 2008

Year 1 Semester 1

BSB113	Economics
BSB123	Data Analysis

Year 1 Semester 2

BSB119	Global Business
BSB124	Working in Business
BSB115	Management

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

EFB222	Quantitative Methods For Economics and Finance
EFB210	Finance 1

Year 3 Semester 1

EFB200	Applied Regression Analysis
EFB201	Financial Markets

Year 3 Semester 2

EFB307	Finance 2
EFB223	Economics 2
BSB126	Marketing

Year 4 Semester 1

EFB335	Investments
	Any Banking and Finance Unit

Year 4 Semester 2

EFB312	International Finance
MGB223	Entrepreneurship and Innovation

Important Information for Business Students

Note: Please refer to "Course Updates - List of re-coded and replacement Business units" to check for course structure changes.

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

Faculty Core units

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

Accountancy Core units

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

Advertising Core units

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

Banking and Finance Core units

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

Economics Core units

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

Electronic Business Core units

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

Human Resource Management Core units

MGB220	now retitled MGB220 Business Research

	Methods
MGB221	is now MGB339 Performance and Reward

International Business Core units

IBB202	is replaced by EFB240 Finance for International Business
IBB208	IBB208 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB210	is now replaced by AMB210 Importing and Exporting
IBB213	is now AMB336 International Marketing
IBB217	IBB217 is no longer offered. Please contact the School of AMPR regarding a replacement unit. (Email: ampradmin@qut.edu.au)
IBB300	is now AMB369 International Business Strategy
IBB308	is replaced by MGB340 International Business in the Asia-Pacific

Management Core units

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

Marketing Core units

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

Public Relations Core units

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

Business Law and Tax Extended Major (BLX)

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

Professional Accounting Extended Major (PAX)

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

Advertising Extended Major (ADX)

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

Banking Extended Major (BFX)

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

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

EFB200	is replaced by EFB333 Introductory Econometrics
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB325	is replaced by EFB336 International Economics
EFB318	is replaced by EFB335 Investments
EFB324	isreplaced by EFB337 Game Theory and Applications

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

EFB200	s replaced by EFB333 Introductory Econometrics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Funds Management Extended Major (FDX)

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

Human Resource Management Extended Major (HRX)

MGB315	is now MGB370 Peronsal and Professional Development
IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB310	Sustainability in a Changing Environment was formerly known as MGB212 and MGB334

International Business Extended Major (IBX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
IBB303	is now AMB303 International Logistics
AMB230	now retitled AMB230 Digital Promotions
IBB312	is replaced by AMb300 Independent Project 1

Management Extended Major (MNX)

IBB205	is now MGB225 Intercultural Communication and Negotiation Skills
MGB218	is now MGB324 Managing Business Growth
MGB315	is now MGB370 Personal & Professional Development
IBB210	is replaced by AMB210 Importand and Exporting
IBB303	is now AMB303 International Logistics

Marketing Extended Major (MKX)

AMB251	now retitled AMB251 Innovation and Brand Management
AMB260	is replaced by AMB263 Introduction to Public

	Relations
AMB351	is now AMB209 Tourism Marketing
AMB352	is replaced by AMB252 Business Decision Making
AMB354	is now AMB208 Events Marketing
IBB213	is now AMB336 International Marketing
IBB303	is now AMB303 International Logistics

Public Relations Extended Major (PRX)

AMB370	is replaced by AMB374 Global Public Relations Cases
AMB371	is replaced by AMB375 Public Relations Management

Business Law and Tax Specialisation (BLS)

AYB223	is replaced by AYB230 Corporations Law
AYB325	is now AYB219 Taxation Law
AYB305	is now AYB205 Company Law & Practice
AYB312	is now AYB232 Financial Institutions Law
BSB213	is now AYB115 Governance Issues in E-Business

Electronic Business Specialisation (EUS)

BSB212	is replaced by AYB114 Business Technologies
BSB213	is replaced by AYB115 Governance Issues and Fraud
BSB314	is replaced by AYB341 Forensic and Business Intelligence
ITB233	is now INB312 Enterprise Systems Applications
ITB823	is now INB830 Web Sites for E-Commerce
ITB239	is now INB342 Enterprise Data Mining

Financial Economics Specialisation (FES)

EFB102	is replaced by EFB223 Economics 2
EFB202	is replaced by EFB330 Intermediate Macroeconomics
EFB211	is replaced by EFB331 Intermediate Microeconomics
EFB329	is now 338 Contemporary Applications of Economics
EFB314	is replaced by EB336 International Economics
EFB324	is replaced by EFB201 Financial Markets
EFB325	is replaced by EFB337 Game Theory and Applications

Integrated Marketing Communication Specialisation (IMS)

AMB260	is replaced by AMB263 Introduction to Public Relations
AMB230	now retitled AMB230 Digital Promotions
AMB354	is now AMB208 Events Marketing

International Logistics Specialisation (ILG)

IBB303	is now AMB303 International Logistics
BSB314	is replaced by AYB341 Forensic and Business Intelligence
IBB210	is replaced by AMB210 Importing and Exporting
EFB213	is replaced by AMB252 Business Decision Making (offered Sem 2); OR MGB335 Project Management (offered Sem 1 & 2)

Sales Specialisation (SALES)

AMB230	now retitled AMB230 Digital Promotion
AMB250	is replaced by MGB225 Intercultural Communication and Negotiation Skills

International Exchange Specilisation (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, 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: 2010
Admissions: Yes
CRICOS code: 063024D
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $4,100 (indicative) per semester
International Fees (indicative): 2010: $10,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419692
Past rank cut-off: 79
Past OP cut-off: 11
Assumed knowledge: English (4, SA) and Math A, B or C (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Course coordinator: Dr Peta Wyeth (Science and Technology); Dr Erica French (Business)
Discipline coordinator: Ms Ros Kent (Accountancy); Ms Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr Anup Basu (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Kavoos Mohannak (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)
Campus: Gardens Point

Course overview

In this double degree students complete the requirements for two separate degrees in four years. The course consists of units in both business and games and interactive entertainment. In the Business component students complete a set of core units to provide a broad-based introduction to business principles and a major from the list below. In the games and interactive entertainment component students complete core units in introductory design, games studies, professional skills and basic programming and then choose a major from the list below. In final year, students participate in a major group project to produce a significant piece of work using PC, mobile devices, consoles or virtual reality. Full time students can take part in the Cooperative Education Program, offering one year paid industry placement and credit towards their degree (subject to satisfying eligibility requirements).

Business Majors: accountancy; advertising; economics; finance; human resource management; international business management; marketing; and public relations.

Games and Interactive Entertainment: Animation and computational arts; digital media; game design; and software technologies.

Career Outcomes

Business graduates work in diverse roles in the private and public sectors in areas such as accountancy, advertising, banking and finance, economics, human resource management, international business, management, marketing and public relations.

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 Faculty Core Units in the Business program together with a 96 credit point minor.

Students will undertake the two components of the double degree concurrently.

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).

Cooperative Education Program

The School of 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.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

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
Dr Peta Wyeth
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 Faculty Core Unit - See Appendix 1
	Business Faculty Core Unit - See Appendix 1
INB180	Computer Games Studies
INB182	Introducing Design

Year 1, Semester 2	
	Business Faculty Core Unit - See Appendix 1
	Business Faculty Core Unit - See Appendix 1
INB181	Introduction to Games Production
INB104	Building IT Systems
	The ITB002 unit is currently under review; further information will be available in August 2009.

Year 2, Semester 1	
	Business Faculty Core Unit - See Appendix 1
	Business Faculty Core Unit - See Appendix 1
INB103	Industry Insights
	Games & Interactive Entertain Major Unit

Year 2, Semester 2	
	Business Faculty Core Unit - See Appendix
	Business Faculty Core Unit - See Appendix
	Games & Interactive Entertain Major Unit
	Games & Interactive Entertain Major Unit

Year 3, Semester 1	
	Business Faculty Major Unit - See Appendix
	Business Faculty Major Unit - See Appendix
	Games & Interactive Entertain Major Unit
	Games & Interactive Entertain Major Unit

Year 3, Semester 2	
	Business Faculty Major Unit - See Appendix
	Business Faculty Major Unit - See Appendix
	Games & Interactive Entertain Major Unit
	Games & Interactive Entertainment Major Unit

Year 4, Semester 1	
	Business Faculty Major Unit - See Appendix
	Business Faculty Major Unit - See Appendix
	Games & Interactive Entertainment Major Unit
INB379	Game Project Design

Year 4, Semester 2	
	Business Faculty Major Unit - See Appendix
	Business Faculty Major Unit - See Appendix
INB380	Games Project

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

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

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

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

Software Technologies*	
	* Requirements for this Major is a SA or better in Queensland Maths B (or equivalent)
INB270	Programming
MAB281	Mathematics for Computer Graphics

INB210	Databases
INB250	Systems Architecture
INB370	Software Development
INB371	Data Structures and Algorithms
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
OR	
INB383	AI for Games

Accountancy Major

Year 1 Semester 1

BSB110	Accounting
BSB115	Management

Year 1 Semester 2

BSB123	Data Analysis
BSB126	Marketing

Year 2 Semester 1

BSB111	Business Law and Ethics
BSB113	Economics

Year 2 Semester 2

AYB200	Financial Accounting
AYB225	Management Accounting

Year 3 Semester 1

EFB210	Finance 1
AYB221	Computerised Accounting Systems

Year 3 Semester 2

AYB219	Taxation Law
AYB340	Company Accounting

Year 4 Semester 1

AYB230	Corporations Law
AYB321	Strategic Management Accounting

Year 4 Semester 2

AYB301	Audit and Assurance
AYB311	Financial Accounting Issues

Advertising Major

Year 1 Semester 1

BSB126	Marketing
BSB113	Economics

Year 1 Semester 2

BSB110	Accounting
BSB115	Management

Year 2 Semester 1

BSB124	Working in Business
BSB119	Global Business

Year 2 Semester 2

AMB200	Consumer Behaviour
AMB220	Advertising Theory and Practice

Year 3 Semester 1

AMB201	Marketing and Audience Research
BSB111	Business Law and Ethics

Year 3 Semester 2

AMB318	Advertising Copywriting
AMB319	Media Planning

Year 4 Semester 1

AMB320	Advertising Management
AMB330	Advertising Planning Portfolio

Year 4 Semester 2

AMB339	Advertising Campaigns
BSB123	Data Analysis

Economics Major

Year 1 Semester 1

BSB113	Economics
BSB115	Management

Year 1 Semester 2

BSB124	Working in Business
BSB123	Data Analysis

Year 2 Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics

Year 2 Semester 2

EFB222	Quantitative Methods For Economics and Finance
EFB223	Economics 2

Year 3 Semester 1

EFB330	Intermediate Macroeconomics
EFB331	Intermediate Microeconomics

Year 3 Semester 2

	Choice units or remaining Faculty Core Units
	Choice units or remaining Faculty Core Units

Year 4 Semester 1

	Choice units or remaining Faculty Core Units
	Choice units or remaining Faculty Core Units

Year 4 Semester 2

EFB338	Contemporary Application of Economic Theory
	Choice units or remaining Faculty 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 Faculty 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: 2010
Admissions: Yes
CRICOS code: 063031E
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $3,100 (indicative) per semester
International Fees (indicative): 2010: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419672
Past rank cut-off: 81
Past OP cut-off: 10
Assumed knowledge: English (4,SA), Maths B (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr Peta Wyeth (Games and Interactive Entertainment); Dr Tim Moroney (Mathematics)
Campus: Gardens Point

Course overview

In this double degree students complete the requirements for two separate degrees in four years. The course consists of units in both games and interactive entertainment and mathematics. In the games and interactive entertainment component students complete core units in introductory design, games studies, professional skills and basic programming and then choose a major from the list below. In final year, students participate in a major group project to produce a significant piece of work using PC, mobile devices, consoles or virtual reality. Full time students can take part in the Cooperative Education Program, offering one year paid industry placement and credit towards their degree (subject to satisfying eligibility requirements). In mathematics, students complete core units that provide a foundation for both study and future work in mathematics and games and interactive entertainment, and then select units from the strands in applicable mathematics, mathematical modelling, computational mathematics, operations research, statistics and financial mathematics. Students are assisted throughout their course with choices to match their career aspirations and abilities. All these strands involve project work and real-world applications.

Majors: Animation and computational arts; digital media; game design; and software technologies.

Cooperative Education Program

The School of 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.

Further information

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

Information Systems
Peta Wyeth
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

Course Structure for Students with Four Semesters of Senior Mathematics B and Senior Mathematics C

Year 1, Semester 1	
INB180	Computer Games Studies
INB182	Introducing Design
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
Year 1, Semester 2	
INB181	Introduction to Games Production
INB104	Building IT Systems
MAB101	Statistical Data Analysis 1
MAB220	Computational Mathematics 1
Year 2, Semester 1	
INB103	Industry Insights
	Games & Interactive Entertain Major Unit
MAB210	Statistical Modelling 1
MAB312	Linear Algebra
Year 2, Semester 2	
	Games & Interactive Entertain Major Unit
	Games & Interactive Entertain Major Unit
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit
Year 3, Semester 1	
	Games & Interactive Entertain Major
	Games & Interactive Entertain Major
MAB311	Advanced Calculus
	Level 2 or 3 Maths Unit
Year 3, Semester 2	
	Games & Interactive Entertain Major

	Games & Interactive Entertain Major
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Year 4, Semester 1

INB379	Game Project Design
	Games & Interactive Entertain Major
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Year 4, Semester 2

INB380	Games Project
	Level 2 or 3 Maths Unit
	Level 2 or 3 Maths Unit

Course Structure for Students with Four Semesters of Senior Mathematics B Only

Year 1, Semester 1

INB180	Computer Games Studies
INB204	Special Topic 1
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

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

Digital Media

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

Game Design

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

Software Technologies*

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

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
MAB481	Visualisation and Data Analysis
	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
MAB681	Advanced Visualisation and Data Analysis
	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: 2010
Admissions: Yes
CRICOS code: 063032D
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,960 (indicative) per semester
International Fees (indicative): 2010: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419682
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4,SA), Maths B (4,SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr Perry Hartfield (Science), Dr Peta Wyeth (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

Course overview

In this double degree students complete the requirements for two separate degrees in four years. The course consists of units in both applied science and games and interactive entertainment. 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 as outlined below and undertake laboratory work and may participate in fieldwork. In the games and interactive entertainment component students complete core units in introductory design, games studies, professional skills and basic programming and then choose a major from the list below. In final year, students participate in a major group project to produce a significant piece of work using PC, mobile devices, consoles or virtual reality. Full time students can take part in the Cooperative Education Program, offering one year paid industry placement and credit towards their degree (subject to satisfying eligibility requirements).

Majors:
Science: biochemistry; biotechnology; chemistry; ecology; environmental science; forensic science; geoscience; microbiology; and physics.
Games and Interactive Entertainment: animation and computational arts; digital media; game design; and software technologies.

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.

Cooperative Education Program

The School of 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.

Unit Incompatibility/Translation Information

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

Further Information

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

Games and Interactive Entertainment Coordinator
Dr Peta Wyeth
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Email: enquiry.scitech@qut.edu.au

Science Coordinator
Dr Perry Hartfield
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Discipline Coordinators

Biochemistry
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Forensic Science
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Geoscience
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Bachelor of Applied Science(Study Area A)/Bachelor of Games and Interactive Entertain (Study Area A

Year 1, Semester 1	
	Applied Science Unit
	Applied Science Unit
INB180	Computer Games Studies
INB182	Introducing Design

Year 1, Semester 2	
	Applied Science Unit
	Applied Science Unit
INB181	Introduction to Games Production
INB104	Building IT Systems

Year 2, Semester 1	
	Applied Science Unit
	Applied Science Unit
INB103	Industry Insights
	Games & Interactive Entertainment Major Unit

Year 2, Semester 2	
	Applied Science Unit
	Applied Science Unit
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 3, Semester 1	
	Applied Science Unit
	Applied Science Unit
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 3, Semester 2	
	Applied Science Unit
	Applied Science Unit
	Games & Interactive Entertainment Major Unit
	Games & Interactive Entertainment Major Unit

Year 4, Semester 1	
	Applied Science Unit
	Applied Science Unit
INB379	Game Project Design
	Games & Interactive Entertainment Major Unit

Year 4, Semester 2	
	Applied Science Unit
	Applied Science Unit
INB380	Games Project

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

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

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

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

KIB214	Design for Interactive Media
AND	Two units selected from the following:
DAB110	Architectural Design 1
DEB201	Digital Communication
DTB101	Interior Design 1
DNB101	Industrial Design 1

Software Technologies*

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

INB270	Programming
MAB281	Mathematics for Computer Graphics
INB210	Databases
INB250	Systems Architecture
INB370	Software Development
INB371	Data Structures and Algorithms
INB381	Modelling and Animation Techniques
INB382	Real Time Rendering Techniques
OR	
INB383	AI for Games

Course structure - Major in Biochemistry

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

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

Year 2, Semester 2

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 3, Semester 2

LQB481	Biochemical Pathways and Metabolism
LQB483	Molecular Biology Techniques

Year 4, Semester 1

LQB581	Functional Biochemistry
LQB582	Biomedical Research Technologies

Year 4, Semester 2

LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering

Course structure - Major in Biotechnology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

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

Year 2, Semester 2

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 3, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics

Year 4, Semester 1

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

Year 4, Semester 2

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

Course structure - Major in Chemistry

Year 1, Semester 1

SCB111	Chemistry 1
	Plus either:
MAB101	Statistical Data Analysis 1

	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB112	Cellular Basis of Life
SCB121	Chemistry 2

Year 2, Semester 1

MAB120	Algebra and Calculus
SCB110	Science Concepts and Global Systems

Year 2, Semester 2

SCB123	Physical Science Applications
SCB131	Experimental Chemistry

Year 3, Semester 1

PQB312	Analytical Chemistry For Scientists and Technologists
PQB331	Structure and Bonding

Year 3, Semester 2

PQB401	Reaction Kinetics, Thermodynamics and Mechanisms
PQB442	Chemical Spectroscopy

Year 4, Semester 1

PQB502	Advanced Physical Chemistry
PQB531	Organic Mechanisms and Synthesis

Year 4, Semester 2

PQB631	Advanced Inorganic Chemistry
PQB642	Chemical Research

Course structure - Major in Ecology

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB122	Cell and Molecular Biology

Year 2, Semester 1

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

Year 2, Semester 2

NQB201	Planet Earth
NQB202	History of Life on Earth

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2

NQB421	Experimental Design
NQB422	Genetics and Evolution

Year 4, Semester 1

NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management

Year 4, Semester 2

NQB622	Conservation Biology
NQB623	Ecological Systems

Course structure - Major in Environmental Science

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB121	Chemistry 2

Year 2, Semester 1

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

Year 2, Semester 2

NQB202	History of Life on Earth
SCB123	Physical Science Applications

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2

NQB403	Soils and the Environment
NQB421	Experimental Design

Year 4, Semester 1

NQB501	Environmental Modelling
NQB502	Field Methods in Natural Resource Sciences

Year 4, Semester 2

NQB601	Sustainable Environmental Management
NQB602	Environmental Chemistry

Course structure - Major in Forensic Science

Year 1, Semester 1	
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2	
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1	
SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2	
SCB123	Physical Science Applications
SCB131	Experimental Chemistry

Year 3, Semester 1	
LQB383	Molecular and Cellular Regulation
SCB384	Forensic Sciences - From Crime Scene to Court

Year 3, Semester 2	
JSB979	Forensic Scientific Evidence
PQB312	Analytical Chemistry For Scientists and Technologists

Year 4, Semester 1	
PQB513	Instrumental Analysis
PQB584	Forensic Physical Evidence

Year 4, Semester 2	
LQB680	Forensic DNA Profiling
PQB684	Forensic Analysis

Course structure - Major in Geoscience

Year 1, Semester 1	
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2	
NQB201	Planet Earth
SCB123	Physical Science Applications

Year 2, Semester 1	
SCB110	Science Concepts and Global Systems
	Plus either:
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 2, Semester 2	
NQB202	History of Life on Earth
SCB222	Exploration of the Universe

Year 3, Semester 1	
NQB311	Mineralogy
NQB314	Sedimentary Geology

Year 3, Semester 2	
NQB411	Petrology of Igneous and Metamorphic Rocks
NQB412	Structural Geology and Field Methods

Year 4, Semester 1	
NQB502	Field Methods in Natural Resource Sciences
NQB513	Geophysics

Year 4, Semester 2	
NQB602	Environmental Chemistry
NQB614	Groundwater Systems

Course structure - Major in Microbiology

Year 1, Semester 1	
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2	
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
SCB111	Chemistry 1

Year 1, Semester 2	
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
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: 2010
Admissions: Yes
CRICOS code: 064812A
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $3,500 (indicative) per semester
International Fees (indicative): 2010: $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), Maths A, B or C (4 SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Course coordinator: Head, Undergraduate Studies (Creative Industries); Mr Richard Thomas (Science and Technology)
Discipline coordinator: Mr Gavin Sade (Interactive and Visual Design)
Campus: Gardens Point and Kelvin Grove

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.

Entry Requirements

Year 12 or equivalent
Prerequisites: Nil
Assumed Knowledge: English (4,SA), Maths A, B or C (4,SA)
Primary Fields: B or C
Secondary Fields: B or C
OP Guarantee: Yes

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 Description

This degree equips you to build and apply creative, innovative IT solutions across diverse industries. A hands-on, real world based curriculum gives you the opportunity to explore a wide range of areas within the two strands of this degree, and gain deep understanding within your chosen area speciality, such as networking, software engineering, data warehousing, business process modelling, enterprise systems, information management, web technologies, or digital societies. You will experience an innovative, hands-on approach to learning through projects where you develop IT systems. You will be able to gain entrepreneurial skills if you wish to learn how to develop an idea into a commercial opportunity. You learn to harness your creativity and people skills to maximise the impact of your technical know-how in the booming IT marketplace. It positions you for a challenging and rewarding career within the global economy. Full-time students are eligible for the Cooperative Education Program; paid industry work experience with credit towards your degree. Students are also offered many other work-integrated learning opportunities where you receive first-hand industry experience.

Visual and interaction design plays a pivotal role in the rapidly expanding fields of contemporary communication, marketing and new technology.

This course will provide you with the conceptual understanding, practical skills and working methods you will need to become a creative and innovative designer. As well as developing core understandings in visual and interactive design, you will choose study pathways to develop a specialist focus in graphic design, animation, 3D computer graphics and/or interaction design for tangible media.

You will be immersed in your Interactive and Visual Design major with 14 studio units, and have a broad creative industries perspective from the two foundation units. Your information technology degree component comprises eight core units and eight units in your information technology major.

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.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Cooperative Education

The School of 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.

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.

Career outcomes

This course will prepare you for a range of careers in the creative industries such as advertising and marketing, Web design and electronic publishing, multimedia entertainment design, games design, and interactive exhibition design.

Graduates work in traditional design companies in areas such as graphic design, marketing, branding and print and television campaigns, Web design, interaction design, usability, knowledge management and information architecture. They also gain employment in new industries. Games companies employ graduates to work on content production, interaction design, visual design and real-time and virtual environments modelling. Film and television production companies employ graduates to work in visual effects and post-production.

Multimedia design and interactive installation production is also a growth area in museums and other cultural institutions. Visualisation companies also increasingly provide opportunities across industries as diverse as mining, architectural and medical visualisation.

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

Course structure for students who commenced in 2010

Notes	
	From year 2, students are recommended to take one of the following pathways:
	* Visual Communication (comprising KIB230, KVB204, KIB335 and KIB338); OR
	* Interactive Media Design (comprising KKB216, KIB205, KIB309 and KIB314)

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
KIB103	Introduction to Web Design and Development
KKB101	Creative Industries: People and Practices

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems
KIB101	Visual Communication
KKB102	Creative Industries: Making Connections

Year 2, Semester 1	
	IT Breadth Option Unit
	IT Breadth Option Unit
KIB104	Digital Media
KVB105	Drawing for Design

Year 2, Semester 2	
	IT Breadth Option Unit
	IT Breadth Option Unit
KIB102	Visual Interactions
KIB105	Animation and Motion Graphics

Year 3, Semester 1	
INB201	Scalable Systems Development
	IT Specialist Option Unit
KIB214	Design for Interactive Media
SELECT	Either KIB230 or KKB216:
KIB230	Interface and Information Design
KKB216	Graphical Development Environments for Media Interaction

Year 3, Semester 2	
INB300	Professional Practice in IT
	IT Specialist Option Unit
KIB216	Advanced Web Design
SELECT	Either KIB205 or KVB204:
KIB205	Programming for Visual Designers and Artists
KVB204	Graphic Design

Year 4, Semester 1	
INB301	The Business of IT
	IT Specialist Option Unit
KIB315	Contemporary Issues in Digital Media
SELECT	Either KIB309 or KIB335:
KIB309	Embodied Interactions
KIB335	Typography and Illustration

Year 4, Semester 2	
INB302	Capstone Project
	IT Specialist Option Unit
KIB322	Design Project
SELECT	Either KIB314 or KIB338:
KIB314	Tangible Media
KIB338	Print Media

Course structure for students who commenced in 2009

Notes	
	From year 2, studentsare recommended to take one of the following pathways:
	* Visual Communication (comprising KIB230, KVB204, KIB335 and KIB338); OR
	* Interactive Media Design (comprising KKB216, KIB205, KIB309 and KIB314)

Year 1, Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
KIB101	Visual Communication
KKB101	Creative Industries: People and Practices

Year 1, Semester 2	
INB103	Industry Insights
INB104	Building IT Systems
KIB103	Introduction to Web Design and Development
KKB102	Creative Industries: Making Connections

Year 2, Semester 1	
	IT Breadth Option Unit
	IT Breadth Option Unit
KIB104	Digital Media
KVB105	Drawing for Design

Year 2, Semester 2	
	IT Breadth Option Unit
	IT Breadth Option Unit
KIB102	Visual Interactions
KIB105	Animation and Motion Graphics

Year 3, Semester 1	
INB201	Scalable Systems Development
	IT Specialist Option Unit
KIB214	Design for Interactive Media
SELECT	Either KIB230 or KKB216:
KIB230	Interface and Information Design
KKB216	Graphical Development Environments for Media Interaction

Year 3, Semester 2	
INB300	Professional Practice in IT
	IT Specialist Option Unit
KIB216	Advanced Web Design
SELECT	Either KIB205 or KVB204:
KIB205	Programming for Visual Designers and Artists
KVB204	Graphic Design

Year 4, Semester 1	
INB301	The Business of IT
	IT Specialist Option Unit
KIB315	Contemporary Issues in Digital Media
SELECT	Either KIB309 or KIB335:
KIB309	Embodied Interactions
KIB335	Typography and Illustration

Year 4, Semester 2	
INB302	Capstone Project
	IT Specialist Option Unit
KIB322	Design Project
SELECT	Either KIB314 or KIB338:
KIB314	Tangible Media
KIB338	Print Media

IT Breadth Option Unit List

IT Breadth Option Units	
	You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.
INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Systems Architecture
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units	
	You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.
1.	BUSINESS PROCESS MANAGEMENT:
INB320	Business Process Modelling
INB321	Business Process Management
INB322	Information Systems Consulting
INB123	Project Management Practice
2.	DATA WAREHOUSING:
INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB343	Advanced Data Mining and Data Warehousing
	Please note: INB343 not offered in 2010
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	Computer Network Administration
INB352	Network Planning and Deployment
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
INB860	Computational Intelligence for Control and Embedded Systems

Please note:	
	INB343 & INB323 are not offered in 2010

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: 2010
Admissions: Yes
CRICOS code: 066294B
Course duration (full-time): 5.5 years
Domestic fees (indicative): 2010: CSP $3,150 (indicative) per semester
International Fees (indicative): 2010: $11,000 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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 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

OP Guarantee

The OP Guarantee will apply to this course.

Career Outcomes

The defining nature of the QUT Bachelor of Laws is its real-world applied nature which will equip you with the high quality knowledge and skills and that meet the needs of the legal profession, government, business and industry. In developing the LLB the Faculty recognises that graduates are increasingly seeking a broad range of careers including, but not limited to, legal practice.

The flexible nature of the degree provides students with an opportunity to undertake a series of elective streams. These streams group legal content and legal skills units into alignment with the varied career destinations which a legal education opens to graduates and will allow you to study areas of the law that match your career aspirations.

Career opportunities include private practice as a barrister and/or solicitor; work in government departments; employment as an in-house lawyer; and a range of other occupations.

As a graduate, you may enter legal practice with an education in both the content and process of science and data analysis that will enable you to deal with the complexities of litigation that have a scientific and technological dimension, such as inventions, trade secrets, quantitative evidence, and constitutional disputes giving rise to environmental issues. On the other hand, you may choose to follow a career path in the sciences, enhancing your opportunities in a particular discipline such as environmental science or biotechnology through your knowledge of the law.

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.

Professional Recognition

Graduates will satisfy the requirements of membership in the relevant professional body for their chosen science major. See the Bachelor of Applied Science (SC01) course for details.

The QUT Bachelor of Laws course is an approved degree for the purposes of the Legal Practitioners Admission Rules. Accordingly, it enables graduates to satisfy the academic requirements for admission to practise as a solicitor and/or barrister in all Australian states and territories. The QUT LLB degree qualification is also recognised for admission purposes in West and East Malaysia, Fiji and Papua New Guinea.

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 Robert Johnson
Phone: +61 7 3138 2016
Email: ra.johnson@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

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

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.

  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	
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	
SCB120	Plant and Animal Physiology
SCB122	Cell and Molecular Biology

Year 2, Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 2, Semester 2	
SCB123	Physical Science Applications
SCB121	Chemistry 2

Year 3, Semester 1	
LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation

Year 3, Semester 2	
LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics

Year 4, Semester 1	
	Select TWO units from:
LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Year 4, Semester 2	
	Select TWO units from:
LQB682	Protein Biochemistry and Bioengineering
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions

Course structure - Major in Chemistry

Year 1, Semester 1	
SCB112	Cellular Basis of Life

	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

MAB120	Algebra and Calculus
SCB123	Physical Science Applications

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 2, Semester 2

SCB121	Chemistry 2
SCB131	Experimental Chemistry

Year 3, Semester 1

PQB312	Analytical Chemistry For Scientists and Technologists
PQB331	Structure and Bonding

Year 3, Semester 2

PQB401	Reaction Kinetics, Thermodynamics and Mechanisms
PQB442	Chemical Spectroscopy

Year 4, Semester 1

PQB502	Advanced Physical Chemistry
PQB531	Organic Mechanisms and Synthesis

Year 4, Semester 2

PQB631	Advanced Inorganic Chemistry
PQB642	Chemical Research

Course structure - Major in Ecology

Year 1, Semester 1

SCB112	Cellular Basis of Life
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

NQB201	Planet Earth
SCB120	Plant and Animal Physiology

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 2, Semester 2

SCB123	Physical Science Applications
NQB202	History of Life on Earth

Year 3, Semester 1

NQB321	Ecology
	Plus either
NQB322	Invertebrate Biology
	Or
NQB323	Plant Biology

Year 3, Semester 2

NQB421	Experimental Design
NQB422	Genetics and Evolution

Year 4, Semester 1

NQB521	Population Genetics and Molecular Ecology
NQB523	Population Management

Year 4, Semester 2

NQB622	Conservation Biology
NQB623	Ecological Systems

Course structure - Major in Environmental Science

Year 1, Semester 1

SCB112	Cellular Basis of Life
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 2, Semester 2

SCB123	Physical Science Applications
SCB121	Chemistry 2

Year 3, Semester 1

NQB302	Earth Surface Systems
NQB321	Ecology

Year 3, Semester 2

NQB403	Soils and the Environment
NQB421	Experimental Design

Year 4, Semester 1

NQB501	Environmental Modelling
NQB502	Field Methods in Natural Resource Sciences

Year 4, Semester 2

NQB601	Sustainable Environmental Management
NQB602	Environmental Chemistry

Course structure - Major in Forensic Science

Year 1, Semester 1

SCB112	Cellular Basis of Life
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 2, Semester 2

SCB121	Chemistry 2
SCB131	Experimental Chemistry

Year 3, Semester 1

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

Year 3, Semester 2

JSB979	Forensic Scientific Evidence
PQB312	Analytical Chemistry For Scientists and Technologists

Year 4, Semester 1

PQB513	Instrumental Analysis
PQB584	Forensic Physical Evidence

Year 4, Semester 2

LQB680	Forensic DNA Profiling
PQB684	Forensic Analysis

Course structure - Major In Geoscience

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

NQB201	Planet Earth
SCB222	Exploration of the Universe

Year 2, Semester 1

SCB112	Cellular Basis of Life
SCB111	Chemistry 1

Year 2, Semester 2

SCB123	Physical Science Applications
NQB202	History of Life on Earth

Year 3, Semester 1

NQB311	Mineralogy
NQB314	Sedimentary Geology

Year 3, Semester 2

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

Year 4, Semester 1

NQB502	Field Methods in Natural Resource Sciences
NQB513	Geophysics

Year 4, Semester 2

NQB614	Groundwater Systems
NQB615	Geochemistry

Course structure - Major in Microbiology

Year 1, Semester 1

SCB112	Cellular Basis of Life
	Either
MAB101	Statistical Data Analysis 1
	Or
MAB105	Preparatory Mathematics

Year 1, Semester 2

SCB120	Plant and Animal Physiology
SCB122	Cell and Molecular Biology

Year 2, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1

Year 2, Semester 2

SCB123	Physical Science Applications
SCB121	Chemistry 2

Year 3, Semester 1

LQB381	Biochemistry: Structure and Function
LQB386	Microbial Structure and Function

Year 3, Semester 2

LQB483	Molecular Biology Techniques
LQB486	Clinical Microbiology 1

Year 4, Semester 1	
LQB586	Clinical Microbiology 2
LQB587	Applied Microbiology 1: Water, Air and Soil

Year 4, Semester 2	
LQB686	Microbial Technology and Immunology
LQB687	Applied Microbiology 2: Food and Quality Assurance

Course structure - Major in Physics

Year 1, Semester 1	
SCB110	Science Concepts and Global Systems
	Either
MAB120	Algebra and Calculus
	Or
MAB121	Calculus and Differential Equations

Year 1, Semester 2	
MAB122	Algebra and Analytic Geometry
PQB250	Mechanics and Electromagnetism

Year 2, Semester 1	
SCB112	Cellular Basis of Life
SCB111	Chemistry 1

Year 2, Semester 2	
MAB121	Calculus and Differential Equations
	Or
MAB220	Computational Mathematics 1
PQB251	Waves and Optics

Year 3, Semester 1	
MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases

Year 3, Semester 2	
PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation

Year 4, Semester 1	
PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques

Year 4, Semester 2	
PQB650	Advanced Theoretical Physics
PQB651	Experimental Physics

Potential Careers:

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), 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: 2010
Admissions: Yes
Course duration (full-time): 1 semester. Subject to maximum time limit of 4 years.
Course duration (part-time): 2 semesters. Subject to maximum time limit of 4 years.
Domestic fees (indicative): 2010: $9,600 per semester
International Fees (indicative): 2010: $10,800 (indicative) per semester
Course coordinator: Professor Rod Wissler
Campus: Internet

course structure

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
IFP106	Managing Research Careers
IFP105	Principles and Practice of Research Management
IFP107	Global Sustainability
IFP108	Strategic Issues in Research Management

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: 2010
Admissions: Yes
Course duration (full-time): 3 semesters.
Course duration (part-time): 6 semesters.
Domestic fees (indicative): 2010: $9,600 per semester
International Fees (indicative): 2010: $10,800 per semester
Course coordinator: Professor Rod Wissler
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

IFP110	
IFP100	Knowledge Transfer and Research Commercialisation
IFP101	Leadership and Workplace Communication
IFP102	Research Project Management
IFP103	Public Policy and Research
IFP104	Entrepreneurial Foundations
IFP105	Principles and Practice of Research and Development Management
IFP106	Managing Research Careers
IFP107	Global Sustainability
IFP108	Strategic Issues in Research and Development Management
IFP109	Contexts for Research and Development Management
IFP110	Research & Development Management Project 1
IFP111	Research & Development Management Project 1

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: 2010
Admissions: Yes
CRICOS code: 020331D
Course duration (full-time): 3 Years
Course duration (part-time): 6 Years
Domestic fees (indicative): 2010: CSP $2,150 (indicative) per semester
International Fees (indicative): 2010: $12,000 (indicative) per semester
Domestic Entry: February
International Entry: February and July (Conditions apply for July entry)
QTAC code: 418201
Past rank cut-off: 81
Past OP cut-off: 10
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

Your course

Year 1
The Bachelor of Applied Science (Medical Science) commences with a solid grounding in life sciences, mathematics, chemistry and physics. You will undertake further intensive study in human physiology, anatomy, cell and molecular biology. With QUT's practical approach to teaching, you will not only learn the theory, but gain a wealth of practical experience in QUT's state-of-the-art laboratories.

Year 2
You will proceed to the topics of biochemistry, microbiology and pathology before sampling various specialisations like immunology, haematology and histopathology. During practical classes you will learn the latest techniques used in the pathology industry and improve your skills to professional standards. At the end of the year you will be ready to undertake a six-week placement in a pathology laboratory to further develop your skills under the guidance of professionals in the workplace.

Year 3
The final year builds on the key areas of biochemistry, microbiology, immunology, haematology, histopathology and introduces immunohaematology. You will develop your skills to an advanced level and further refine your laboratory techniques to ensure that, when you graduate, you will be ready to operate confidently in the workplace. You can take advantage of QUT's close links with the pathology industry to further enhance your employment prospects.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, portfolios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Further Information

For further information about this course, please contact:

Course Coordinator
Ms Anne-Marie Christensen
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Full-time Course Structure

Year 1, Semester 1	
MAB141	Mathematics and Statistics for Medical Science
PCB150	Physics 1H
SCB112	Cellular Basis of Life
SCB113	Chemistry for Health and Medical Science

Year 1, Semester 2	
LSB250	Human Physiology
LSB255	Human Anatomy
SCB122	Cell and Molecular Biology
SCB131	Experimental Chemistry

Year 2, Semester 1	
LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function
LSB325	Biochemistry
LSB365	Pathology

Year 2, Semester 2	
LSB425	Quantitative Medical Science
LSB435	Diagnostic Microbiology 1
LSB438	Immunology 1
LSB465	Histopathology 1

Year 2, Summer Semester	
LSB480	Professional Practice

Year 3, Semester 1	
LSB525	Clinical Biochemistry 1
LSB535	Microbial Immunology
LSB555	Haematology 1
LSB565	Histopathology 2

Year 3, Semester 2	
LSB625	Clinical Biochemistry 2
LSB635	Diagnostic Microbiology 2
LSB655	Haematology 2
LSB665	Immunohaematology

Part-time Course Structure - For students who will commence in 2010, and who commenced in 2009

Year 1, Semester 1	
SCB112	Cellular Basis of Life
SCB113	Chemistry for Health and Medical Science

Year 1, Semester 2	
SCB122	Cell and Molecular Biology
SCB131	Experimental Chemistry

Year 2, Semester 1	
MAB141	Mathematics and Statistics for Medical Science
PCB150	Physics 1H

Year 2, Semester 2	
LSB250	Human Physiology
LSB255	Human Anatomy

Year 3, Semester 1	
LQB386	Microbial Structure and Function
LSB365	Pathology

Year 3, Semester 2	
LSB435	Diagnostic Microbiology 1
LSB438	Immunology 1

Year 4, Semester 1	
LQB383	Molecular and Cellular Regulation
LSB325	Biochemistry

Year 4, Semester 2	
LSB425	Quantitative Medical Science
LSB465	Histopathology 1

Year 5, Semester 1	
LSB525	Clinical Biochemistry 1
LSB535	Microbial Immunology

Year 5, Semester 2	
LSB625	Clinical Biochemistry 2
LSB635	Diagnostic Microbiology 2

Year 5, Summer Semester	
LSB480	Professional Practice

Year 6, Semester 1	
LSB555	Haematology 1

LSB565	Histopathology 2

Year 6, Semester 2

LSB655	Haematology 2
LSB665	Immunohaematology

Part-time Course Structure - For students who commenced in 2008

Year 1, Semester 1

MAB141	Mathematics and Statistics for Medical Science
SCB112	Cellular Basis of Life

Year 1, Semester 2

SCB113	Chemistry for Health and Medical Science
SCB122	Cell and Molecular Biology

Year 2, Semester 1

PCB150	Physics 1H
SCB131	Experimental Chemistry

Year 2, Semester 2

LSB250	Human Physiology
LSB255	Human Anatomy

Year 3, Semester 1

LQB386	Microbial Structure and Function
LSB325	Biochemistry

Year 3, Semester 2

LSB435	Diagnostic Microbiology 1
LSB438	Immunology 1

Year 4, Semester 1

LQB383	Molecular and Cellular Regulation
LSB365	Pathology

Year 4, Semester 2

LSB425	Quantitative Medical Science
LSB465	Histopathology 1

Year 5, Semester 1

LSB525	Clinical Biochemistry 1
LSB535	Microbial Immunology

Year 5, Semester 2

LSB625	Clinical Biochemistry 2
LSB635	Diagnostic Microbiology 2

Year 5, Summer Semester

LSB480	Professional Practice

Year 6, Semester 1

LSB555	Haematology 1
LSB565	Histopathology 2

Year 6, Semester 2

LSB655	Haematology 2
LSB665	Immunohaematology

Potential Careers:

Biochemist, Clinical Laboratory Scientist, Medical Scientist, Microbiologist, Operations Manager, Pathology Scientist.

Bachelor of Biotechnology Innovation (LS50)

Year offered: 2010
Admissions: No
CRICOS code: 037681J
Course duration (full-time): 4 years
Course duration (part-time): 8 years
Domestic fees (indicative): 2010: CSP $2,890 (indicative) per semester
International Fees (indicative): 2010: $11,500 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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

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.

Recommended Study

Biological Science.

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.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Further Information

For further information about this course, please contact:

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

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
LSB250	Human Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1	
AMB240	Marketing Planning and Management
LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function
LSB325	Biochemistry

Year 2, Semester 2	
LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
LQB489	Plant Physiology and Cell Biology
MGB223	Entrepreneurship and Innovation

Year 3, Semester 1	
LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth

Year 3, Semester 2	
BSB311	Innovation Commercialisation Strategies
LQB682	Protein Biochemistry and Bioengineering
LQB686	Microbial Technology and Immunology
MGB200	Leading Organisations

Year 4, Semester 1	
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation
LSB709-1	Biotechnology Research Project
MGB225	Intercultural Communication and Negotiation Skills

Year 4, Semester 2	
LSB709-2	Biotechnology Research Project
LSB709-3	Biotechnology Research Project
	Plus any TWO of the following three units:
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions
MGB309	Strategic Management

Part-time Course Structure - For students who commenced in 2009 - First Semester Entry

Year 1, Semester 1	
MAB101	Statistical Data Analysis 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

LSB250	Human Physiology
SCB122	Cell and Molecular Biology

Year 2, Semester 1

BSB115	Management
SCB111	Chemistry 1

Year 2, Semester 2

BSB126	Marketing
SCB121	Chemistry 2

Year 3, Semester 1

LQB383	Molecular and Cellular Regulation
LSB325	Biochemistry

Year 3, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics

Year 4, Semester 1

AMB240	Marketing Planning and Management
LQB386	Microbial Structure and Function

Year 4, Semester 2

LQB489	Plant Physiology and Cell Biology
MGB223	Entrepreneurship and Innovation

Year 5, Semester 1

LQB582	Biomedical Research Technologies
MGB324	Managing Business Growth

Year 5, Semester 2

BSB311	Innovation Commercialisation Strategies
LQB682	Protein Biochemistry and Bioengineering

Year 6, Semester 1

LQB583	Genetic Research Technology
LWS007	Introduction To Intellectual Property Law

Year 6, Semester 2

LQB686	Microbial Technology and Immunology
MGB200	Leading Organisations

Year 7, Semester 1

LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Year 7, Semester 2

	Select TWO units from the following:
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions
MGB309	Strategic Management

Year 8, Semester 1

LSB709-1	Biotechnology Research Project
MGB225	Intercultural Communication and Negotiation Skills

Year 8, Semester 2

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

Full-time Course Structure - For students who commenced in 2009 - Mid Year Entry

Year 1, Semester 2

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

BSB115	Management
LQB383	Molecular and Cellular Regulation
LSB325	Biochemistry
MAB101	Statistical Data Analysis 1

Year 2, Semester 2

LSB250	Human Physiology
LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
LQB489	Plant Physiology and Cell Biology

Year 3, Semester 1

BSB126	Marketing
LQB386	Microbial Structure and Function
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Year 3, Semester 2

AMB240	Marketing Planning and Management
LQB682	Protein Biochemistry and Bioengineering
MGB200	Leading Organisations
MGB223	Entrepreneurship and Innovation

Year 4, Semester 1

LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth

Year 4, Semester 2

BSB311	Innovation Commercialisation Strategies
LQB686	Microbial Technology and Immunology
	Plus any TWO of the following:
LQB684	Medical Biotechnology

LQB685	Plant Microbe Interactions
MGB309	Strategic Management

Year 5, Semester 1

LSB709-1	Biotechnology Research Project
LSB709-2	Biotechnology Research Project
LSB709-3	Biotechnology Research Project
MGB225	Intercultural Communication and Negotiation Skills

Full-time Course Structure for students who commenced in 2008

Year 1, Semester 1

BSB110	Accounting
MAB101	Statistical Data Analysis 1
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2

BSB115	Management
LSB258	Principles of Human Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

BSB126	Marketing
LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function
LSB325	Biochemistry

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
LQB489	Plant Physiology and Cell Biology
MGB223	Entrepreneurship and Innovation

Year 3, Semester 1

LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth

Year 3, Semester 2

BSB311	Innovation Commercialisation Strategies
LQB682	Protein Biochemistry and Bioengineering
LQB686	Microbial Technology and Immunology
MGB200	Leading Organisations

Year 4, Semester 1

LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation
LSB709-1	Biotechnology Research Project
MGB225	Intercultural Communication and Negotiation Skills

Year 4, Semester 2

LSB709-2	Biotechnology Research Project
LSB709-3	Biotechnology Research Project
	Plus any TWO of the following units:
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions
MGB309	Strategic Management

Potential Careers:

Biotechnologist, Biotechnology Business/Investment Analyst, Business Development Officer, Cell Biologist, Commercialisation Officer, Medical Biotechnologist, Molecular Biologist, Plant Biotechnologist, Technology Transfer Officer.

Graduate Certificate in Biotechnology (LS66)

Year offered: 2010
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): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $11,250 (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

Entry Requirements

A bachelor degree or equivalent, preferably but not necessarily in science, is advised. Please contact the course coordinator for further information on the entry requirements for this course.

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

LS66 Graduate Certificate in Biotechnology is a foundation program for those people without a science degree or for those who do not have a recent background in the biomolecular sciences. Fundamental aspects of cell and molecular biology, biochemistry and microbiology are covered in this first program which comprises 48 credit points of assessed coursework. 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 may be given for this foundation program if the student has a bachelor degree or equivalent with a 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 is granted, students can enrol directly in any of the more advanced biotechnology programs (LS76, LS86 or LS96) in their first semester.

Overview

LS66 Graduate Certificate in Biotechnology is the first of four nested postgraduate coursework programs in biotechnology offered by the School of Life Sciences. This particular course will suit anyone who has a recent undergraduate degree (preferably, but not necessarily in science) and who wishes to gain training in general biotechnology. LS66 Graduate Certificate in Biotechnology, a 6-month full-time foundation program, provides those students without a sound background in the biomolecular sciences the opportunity for direct entry into more advanced biotechnology streams. Science-based biomolecular science units emphasise both theoretical and laboratory skills and cover contemporary fundamental techniques underpinning the science of biotechnology.

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: 2010
Admissions: Yes
CRICOS code: 016975B
Course duration (full-time): 2 semesters (1 year)
Course duration (part-time): 4 semesters (2 years)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $11,000 (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

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.

*****_LS76 commences in July (Module 1 entry). Students with advanced standing for Module 1 should commence in February as the Faculty does not offer sufficient units in Module 2 in second semester. Note especially that the February entry point for this course is for students with advanced standing for Module 1. It is not possible to commence Module 1 in February._

For students with advanced standing for Module 1 and who wish to enter LS76 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 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 biomolecular sciences and area of interest in biotechnology. The LS76 Graduate Diploma in Biotechnology builds upon concepts covered in the foundation program, LS66 Graduate Certificate in Biotechnology. The Graduate Diploma in Biotechnology not only offers students opportunities to pursue study in several relevant focus areas including the theoretical and practical aspects of biotechnology, but also the business of biotechnology, marketing, commercialisation, as well as the legal and ethical aspects of biotechnological applications. The Graduate Diploma in Biotechnology is comprised of 96 credit points of assessed coursework. Advanced standing may be given for the suite of units offered in the foundation program, LS66 Graduate Certificate in Biotechnology, if the student has a bachelor degree or equivalent with a 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 is granted, students can enrol directly in LS76 in their first semester.

Overview

LS76 Graduate Diploma in Biotechnology is one of four nested postgraduate coursework programs in biotechnology offered by the School of Life Sciences. The Graduate Diploma in Biotechnology will suit anyone who has a recent undergraduate degree (preferably, but not necessarily in science) and who wishes to gain training and advanced specialisation in general, medical and/or plant biotechnology. The program also caters for working scientists, support staff, or students involved in commercial aspects of biotechnology, who wish to update their theoretical and practical biotechnology skills for a current or future position. Science-based biotechnology units emphasise laboratory skills and hands-on laboratory experimentation feature prominently in the program, which covers contemporary techniques in biotechnology. New technology is incorporated as it becomes available. The program also offers students opportunities to pursue studies related to the business of biotechnology, marketing, commercialisation, as well as the legal and ethical aspects of biotechnological applications. LS76 Graduate Diploma in Biotechnology, a one year full-time program, builds upon the knowledge and skills base developed in the Graduate Certificate in Biotechnology and allows the student to stream into either medical or plant biotechnology or both.

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
LQB583	Genetic Research Technology
	Or
LQB585	Plant Genetic Manipulation

In consultation with the course coordinator, choose 24 credit points from the following units:

LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LQB585	Plant Genetic Manipulation
GSN408	Fundamentals of Marketing Management
LWN135	Law, Justice and New Genetic Technologies

Course structure - Part-time

Year 1, Semester 2 (MODULE 1)

LSN101	Molecular Biosciences
LSN102	Cellular Biosciences

Year 2, Semester 2 (MODULE 1)

LSN103	Postgraduate Learning and Research Skills
LSN483	Molecular Biology Techniques

Year 3, Semester 1 (MODULE 2)

LQB583	Genetic Research Technology
	Either
LQB585	Plant Genetic Manipulation
	Or
LSP127	Business Aspects of Biotechnology

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: 2010
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): 2010: Full fee tuition $7,750 (indicative) per semester
International Fees (indicative): 2010: $11,000 (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

Entry Requirements

A bachelor degree or equivalent, preferably but not necessarily in science, is required. Please contact the course coordinator for further information on the entry requirements for this course.

*****_LS86 commences in July (Module 1 entry). Students with advanced standing for Module 1 should commence in February as the Faculty does not offer sufficient units in Module 2 in second semester. Note especially that the February entry point for this course is for students with advanced standing for Module 1. It is not possible to commence Module 1 in February._

For students with advanced standing for Module 1 and who wish to enter LS86 in July, a modified program will be required and this should be discussed with the course coordinator prior to enrolment. Students should note that this may require them to study business electives only in their first semester and could lead to them having to take an additional semester to complete the requirements of their program.

Career Outcomes

Career opportunities include employment as research and support staff in the biotechnology industry - private or public biotechnology companies, universities, CSIRO, research institutes, government departments, pathology laboratories and hospitals.

Professional Recognition

Graduates are eligible to join the AusBiotech, the Australian Society for Biochemistry and Molecular Biology, and the Australian Society for Microbiology.

Course Design

The 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 biomolecular sciences and area of interest in biotechnology. The LS86 Master of Biotechnology program follows on from successful completion of core and elective units offered in both LS66 Graduate Certificate in Biotechnology and LS76 Graduate Diploma in Biotechnology. The program not only offers students opportunities to pursue study in several relevant focus areas including the theoretical and practical aspects of biotechnology, but also the business of biotechnology, marketing, commercialisation, as well as the legal and ethical aspects of biotechnological applications. LS86 Master of Biotechnology is comprised of 144 credit points of assessed coursework and is designed to give students further training and specialisation in general, medical and/or plant biotechnology. Advanced standing may be given for the suite of units offered in the foundation program, LS66 Graduate Certificate in Biotechnology, if the student has a bachelor degree or equivalent with a 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 is granted, students can enrol directly in LS86 in their first semester.

Overview

LS86 Master of Biotechnology is one of four nested postgraduate coursework programs in biotechnology offered by the School of Life Sciences. LS86 Master of Biotechnology extends the LS76 Graduate Diploma in Biotechnology program by providing additional training and specialisation in either medical or plant biotechnology or both. The program can be completed in 1.5 years full-time. The Master of Biotechnology program will suit anyone who has a recent undergraduate degree (preferably, but not necessarily in science) and who wishes to gain training and advanced specialisation in general, medical and/or plant biotechnology. The program also caters for working scientists, support staff, or students involved in commercial aspects of biotechnology, who wish to update their theoretical and practical biotechnology skills for a current or future position. Science-based biotechnology units emphasise laboratory skills and hands-on laboratory experimentation feature prominently in the program, which covers contemporary techniques in biotechnology. New technology is incorporated as it becomes available. The program also offers students opportunities to pursue studies related to the business of biotechnology, marketing, commercialisation, as well as the legal and ethical aspects of biotechnological applications.

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
LQB583	Genetic Research Technology
	Or
LQB585	Plant Genetic Manipulation
	In consultation with the course coordinator, choose 24 credit points from the following units:
LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LQB585	Plant Genetic Manipulation
GSN408	Fundamentals of Marketing Management
LWN135	Law, Justice and New Genetic Technologies

Year 2, Semester 2 (MODULE 3)

BSB311	Innovation Commercialisation Strategies
	Either
LQB684	Medical Biotechnology
	Or
LQB685	Plant Microbe Interactions
	In consultation with the course coordinator, choose 24 credit points from the following units:
LQB484	Introduction to Genomics and Bioinformatics
LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering
LQB685	Plant Microbe Interactions
LSN684	Medical Biotechnology 2
GSN418	Marketing Strategy Development
MGN409	Introduction to Management

Course structure - Part-time

Year 1, Semester 2 (MODULE 1)

LSN101	Molecular Biosciences
LSN102	Cellular Biosciences

Year 2, Semester 2 (MODULE 1)

LSN103	Postgraduate Learning and Research Skills
LSN483	Molecular Biology Techniques

Year 3, Semester 1 (MODULE 2)

LSP127	Business Aspects of Biotechnology
	Either
LQB583	Genetic Research Technology
	Or
LQB585	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
LQB583	Genetic Research Technology
LQB585	Plant Genetic Manipulation
GSN408	Fundamentals of 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

Potential Careers:

Biochemist, Biotechnologist, Medical Biotechnologist, Microbiologist, Molecular Biologist, Plant Biotechnologist, Research Assistant, Scientist, Virologist.

Master of Biotechnology (Advanced) (LS96)

Year offered: 2010
Admissions: Yes
CRICOS code: 054279M
Course duration (full-time): 4 semesters (2 years)
Course duration (part-time): 8 semesters (4 years)
Domestic fees (indicative): 2010: Full fee tuition $8,000 (indicative) per semester
International Fees (indicative): 2010: $11,500 (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

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.

*****_LS96 commences in July (Module 1 entry). Students with advanced standing for Module 1 should commence in February as the Faculty does not offer sufficient units in Module 2 in second semester. Note especially that the February entry point for this course is for students with advanced standing for Module 1. It is not possible to commence Module 1 in February._

For students with advanced standing for Module 1 and who wish to enter LS96 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. Also, students may not be able to undertake the project component of LS96.

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 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 biomolecular sciences and area of interest in biotechnology. LS96 Master of Biotechnology (Advanced) completes the comprehensive training of students and follows successful completion of core and elective units offered in LS66, LS76 and LS86. It is comprised of 192 credit points of assessed coursework in general, medical and/or plant biotechnology. In their final semester of the program, students may undertake a supervised research project either at QUT or in the workplace. Students must discuss research project areas prior to enrolment in this course to select both a suitable project and a project supervisor(s) prior to entry (or as soon as possible thereafter). While the School of Life Sciences has 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. 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. Alternative options are available. 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. The LS96 Master of Biotechnology (Advanced) program not only offers students opportunities to pursue study in several relevant focus areas including the theoretical and practical aspects of biotechnology, but also the business of biotechnology, marketing, commercialisation, as well as the legal and ethical aspects of biotechnological applications. Advanced standing may be given for the suite of units offered in the foundation program, LS66 Graduate Certificate in Biotechnology, if the student has a bachelor degree or equivalent with a 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 is granted, students can enrol directly in LS96 in their first semester.

Overview

LS96 Master of Biotechnology (Advanced) is one of four nested postgraduate coursework programs in biotechnology offered by the School of Life Sciences. The LS96 Master of Biotechnology (Advanced) program offers students a complete and comprehensive training in biotechnology by extending the suite of units offered within the LS86 Master of Biotechnology program or by giving students the opportunity in their final semester of study to pursue a research project. The Master of Biotechnology (Advanced) is a two year full-time program of study commencing with the foundation suite of core units, where appropriate. The LS96 Master of Biotechnology (Advanced) program will suit anyone who has a recent undergraduate degree (preferably, but not necessarily in science) and who wishes to gain training and advanced specialisation in general, medical and/or plant biotechnology. The program also caters for working scientists, support staff, or students involved in commercial aspects of biotechnology, who wish to update their theoretical and practical biotechnology skills for a current or future position. Science-based biotechnology units emphasise laboratory skills and hands-on laboratory

experimentation feature prominently in the program, which covers contemporary techniques in biotechnology. New technology is incorporated as it becomes available. The program also offers students opportunities to pursue studies related to the business of biotechnology, marketing, commercialisation, as well as the legal and ethical aspects of biotechnological applications.

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
LQB583	Genetic Research Technology
	Or
LQB585	Plant Genetic Manipulation
	In consultation with the course coordinator, choose 24 credit points from the following units:
LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LQB585	Plant Genetic Manipulation
GSN408	Fundamentals of Marketing Management
LWN135	Law, Justice and New Genetic Technologies

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
GSN418	Marketing Strategy Development
MGN409	Introduction to Management

Year 3, Semester 1 (MODULE 4)	
LSN710	Project
	For those students NOT undertaking LSN710 Project, in consultation with the course coordinator, choose 48 credit points from the following units:
LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LQB585	Plant Genetic Manipulation
GSN408	Fundamentals of Marketing Management
LWN135	Law, Justice and New Genetic Technologies

Course structure - Part-time

Year 1, Semester 2 (MODULE 1)	
LSN101	Molecular Biosciences
LSN102	Cellular Biosciences

Year 2, Semester 2 (MODULE 1)	
LSN103	Postgraduate Learning and Research Skills
LSN483	Molecular Biology Techniques

Year 3, Semester 1 (MODULE 2)	
LQB583	Genetic Research Technology
	Either
LQB585	Plant Genetic Manipulation
	Or
LSP127	Business Aspects of Biotechnology

Year 3, Semester 2 (MODULE 3)	
	In consultation with the course coordinator, choose 24 credit points from the following units:
LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering
LSN103	Postgraduate Learning and Research Skills
MGN409	Introduction to Management

Year 4, Semester 1 (MODULE 2)	
	In consultation with the course coordinator, choose 24 credit points from the following units:
LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LQB585	Plant Genetic Manipulation
GSN408	Fundamentals of Marketing Management
LWN135	Law, Justice and New Genetic Technologies

Year 4, Semester 2 (MODULE 3)	
BSB311	Innovation Commercialisation Strategies
	Either

LQB685	Plant Microbe Interactions
	Or
LSN684	Medical Biotechnology 2

Year 5, Semester 1 (MODULE 4)

LSN711	Project 1
	For those students NOT undertaking LSN712 Project 2, in consultation with the course coordinator, choose 48 credit points from the following units:
LQB582	Biomedical Research Technologies
LQB583	Genetic Research Technology
LQB585	Plant Genetic Manipulation
GSN408	Fundamentals of Marketing Management
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
GSN408	Fundamentals of Marketing Management
GSN418	Marketing Strategy Development
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: 2010
Admissions: Yes
CRICOS code: 049433D
Course duration (full-time): 3 Years
Course duration (part-time): 6 Years
Domestic fees (indicative): 2010: CSP $2,310 (indicative) per semester
International Fees (indicative): 2010: $11,000 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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

Career Opportunities

Mathematics graduates are employed across a wide range of areas. These include, but are not limited to, finance, investment, information technology, environmental management, health, marketing, logistics, defence, media, education and research. In addition to their knowledge and skills in mathematics, graduates are also highly valued for their analytical and problem-solving skills. Development of skills in communication, problem-solving, critical thinking and teamwork form an integral part of the course.

Favourable career outcomes for Bachelor of Mathematics graduates are likely due to the current demand for qualified statisticians and mathematicians.

Recommended Study

Maths C is recommended.

Course Design

The course structure is flexible in nature so that you can choose to study only mathematics units or include some units from another area of interest, such as science, business or information technology.

In the first year 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.

You will be able to design your program to suit your interests and career aspirations by combining advanced units from a number of the following areas of specialisation:

Applied Mathematics
Mathematical techniques that can be used to solve real-world problems.

Computational Mathematics
Computers and numerical techniques used to find solutions to complex problems which cannot be solved analytically.

Discrete Mathematics
The mathematics of numbers, including study of sets, fields, ring and groups.

Financial Mathematics
A wide variety of mathematical techniques used in applications within the financial area.

Mathematical Modelling
The utilisation of 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
Supercomputing, 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.

Professional Recognition

Membership of the Australian Mathematical Society, the Statistical Society of Australia Inc and the Australian Society for Operations Research is available.

Mathematics Bursaries

Students enrolled in this course can apply for industry-sponsored bursaries. These bursaries are awarded to Australian citizens or permanent residents on a competitive basis. Applications should be submitted by 1 December of the year preceding entry to the course. For further information see www.maths.qut.edu.au

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

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

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

Up to a maximum of 96 credit points may be taken as electives with not more than 48 credit points from first level units.

Note: A first level unit is classified as a unit that is normally taken in the first year of a single degree. Examples of first level units are BSB1xx, INB101-INB104, SCB1xx units, PQB2xx units. Please check with your Course Coordinator if you would like to take language units or units from faculties other than Business, Information Technology or Science so that you can be advised on the correct unit(s) in which to enrol.

Suggested Program for February Entry

STUDENTS WITH AN EXIT ASSESSMENT OF AT LEAST SOUND ACHIEVEMENT IN BOTH SENIOR MATHEMATICS B AND SENIOR MATHEMATICS C (OR EQUIVALENT)

Year 1, Semester 1

MAB101	Statistical Data Analysis 1
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
	ONE additional unit from:
BSB110	Accounting
MAB220	Computational Mathematics 1
SCB110	Science Concepts and Global Systems
	Other first level unit (see below and later in document for other suggestions)

Year 1, Semester 2

MAB210	Statistical Modelling 1
	THREE additional units from:
MAB220	Computational Mathematics 1
MAB281	Mathematics for Computer Graphics
MAB313	Mathematics of Finance
MAB422	Mathematical Modelling
MAB480	Introduction to Scientific Computation
BSB113	Economics
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Other first level elective units (see later in document for other suggestions)

Year 2, Semester 1

MAB311	Advanced Calculus
MAB312	Linear Algebra
	TWO additional units from mathematics units or elective units

Year 2, Semester 2

FOUR units from mathematics units or elective units (see course structure)

Year 3, Semester 1

FOUR units from mathematics units or elective units (see course structure)

Year 3, Semester 2

FOUR units from mathematics units or elective units (see course structure)

STUDENTS WITH AN EXIT ASSESSMENT OF AT LEAST SOUND ACHIEVEMENT IN SENIOR MATHEMATICS B ONLY (OR EQUIVALENT)

Year 1, Semester 1

MAB101	Statistical Data Analysis 1

MAB120	Algebra and Calculus
	TWO additional units from:
BSB110	Accounting
BSB113	Economics
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Other first level elective unit (see later in document for other suggestions)

Year 1, Semester 2

MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1

Year 2, Semester 1

MAB311	Advanced Calculus
MAB312	Linear Algebra
	TWO additional units from mathematics units or elective units

Year 2, Semester 2

FOUR units from mathematics units or elective units (see course structure)

Year 3, Semester 1

FOUR units from mathematics units or elective units (see course structure)

Year 3, Semester 2

FOUR units from mathematics units or elective units (see course structure)

Mathematics Units

Mathematics Units

Students should not enrol in Mathematics units other than those listed below:

Level 1 Mathematics Units

MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1

Level 2 Mathematics Units

MAB311	Advanced Calculus
MAB312	Linear Algebra
MAB313	Mathematics of Finance
MAB314	Statistical Modelling 2
MAB315	Operations Research 2
MAB413	Differential Equations
MAB414	Applied Statistics 2
MAB420	Computational Mathematics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation

Level 3 Mathematics Units

MAB521	Applied Mathematics 3
MAB522	Computational Mathematics 3
MAB524	Statistical Inference
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB536	Time Series Analysis
MAB613	Partial Differential Equations
MAB623	Financial Mathematics
MAB624	Applied Statistics 3
MAB625	Operations Research 3B
MAB640	Industry Project
MAB672	Advanced Mathematical Modelling

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.

Graduate Certificate in Mathematical Science (MA65)

Year offered: 2010
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): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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
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 to enrol, 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 of the Head of the relevant discipline area.

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

Course structure

- Total credit points: 48
- At least 36 credit points must be taken from postgraduate mathematics units.
- Up to 12 credit points can be taken from units other than mathematics units.
- The units recommended will depend upon your mathematics background from secondary school or tertiary studies, length of time since you have studied mathematics, and your areas of interest.

Units available:	
MAN101	Statistical Data Analysis 1
MAN105	Preparatory Mathematics
MAN120	Algebra and Calculus
MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN200	Mathematical Foundations
MAN201	Mathematics
MAN210	Statistical Modelling 1
MAN220	Computational Mathematics 1
MAN281	Mathematics for Computer Graphics
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN313	Mathematics of Finance
MAN314	Statistical Modelling 2
MAN315	Operations Research 2
MAN413	Differential Equations
MAN414	Applied Statistics 2
MAN420	Computational Mathematics 2
MAN422	Mathematical Modelling
MAN461	Discrete Mathematics
MAN480	Introduction to Scientific Computation
MAN521	Applied Mathematics 3
MAN522	Computational Mathematics 3
MAN524	Statistical Inference
MAN525	Operations Research 3A
MAN533	Statistical Techniques
MAN536	Time Series Analysis
MAN613	Partial Differential Equations
MAN623	Financial Mathematics
MAN624	Applied Statistics
MAN625	Operations Research 3B

MAN672	Advanced Mathematical Modelling
MAN700	Project
MAN717	Minor Project
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis
MAN768	Advanced Techniques in Operations Research
MAN769	Mathematics of Finance
MAN771	Computational Mathematics 4
MAN774	Perturbation Methods
MAN775	Statistical Modelling of Financial Processes
MAN777	Mathematics of Fluid Flow
MAN778	Applications of Discrete Mathematics
MAN787-1	Project
MAN787-2	Project
MAN787-3	Project

Potential Careers:

Actuary, Mathematician, Quantitative Analyst, Statistician.

Graduate Diploma in Mathematical Science (MA75)

Year offered: 2010
Admissions: Yes
CRICOS code: 046041M
Course duration (full-time): 2 semesters (1 year)
Course duration (part-time): 4 semesters (2 years)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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
Campus: Gardens Point

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.

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 to enrol, an applicant will normally have completed an undergraduate degree in any discipline. Students who do not have sufficient background may be advised to enrol in MA65 Graduate Certificate in Mathematical Sciences first, subject to approval of the Head of the relevant discipline area.

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.

Further Information

For further information about this course, please contact:

Troy Farrell
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

Course structure

- Total credit points: 48
- At least 36 credit points must be taken from postgraduate mathematics units.
- Up to 12 credit points can be taken from units other than mathematics units.
- The units recommended will depend upon your mathematics background from secondary school or tertiary studies, length of time since you have studied mathematics, and your areas of interest.

Units available:	
MAN101	Statistical Data Analysis 1
MAN105	Preparatory Mathematics
MAN120	Algebra and Calculus
MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN200	Mathematical Foundations
MAN201	Mathematics
MAN210	Statistical Modelling 1
MAN220	Computational Mathematics 1
MAN281	Mathematics for Computer Graphics
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN313	Mathematics of Finance
MAN314	Statistical Modelling 2
MAN315	Operations Research 2
MAN413	Differential Equations
MAN414	Applied Statistics 2
MAN420	Computational Mathematics 2
MAN422	Mathematical Modelling
MAN461	Discrete Mathematics
MAN480	Introduction to Scientific Computation
MAN521	Applied Mathematics 3
MAN522	Computational Mathematics 3
MAN524	Statistical Inference

MAN525	Operations Research 3A
MAN533	Statistical Techniques
MAN536	Time Series Analysis
MAN613	Partial Differential Equations
MAN623	Financial Mathematics
MAN624	Applied Statistics
MAN625	Operations Research 3B
MAN672	Advanced Mathematical Modelling
MAN700	Project
MAN717	Minor Project
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis
MAN768	Advanced Techniques in Operations Research
MAN769	Mathematics of Finance
MAN771	Computational Mathematics 4
MAN774	Perturbation Methods
MAN775	Statistical Modelling of Financial Processes
MAN777	Mathematics of Fluid Flow
MAN778	Applications of Discrete Mathematics
MAN787-1	Project
MAN787-2	Project
MAN787-3	Project

Course structure Note

If you wish to take any of the project units you will need to discuss your plans and the proposed content with the Course Coordinator.

Strand Information

The following strand information is to assist you with unit selection. You do not have to enrol in all units listed for a strand. The prerequisite units are given to guide you. Depending on your background, you may have already covered some of the units listed (or equivalent units) in your undergraduate studies. If you have not studied any mathematics for some time, you may need to undertake one or two units prior to commencing those listed in the strand information.

Mathematical Modelling/Applied Mathematics

Advanced Postgraduate Mathematics Units:

MAN521	Applied Mathematics 3
MAN613	Partial Differential Equations
MAN672	Advanced Mathematical Modelling
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN774	Perturbation Methods
MAN777	Mathematics of Fluid Flow

Prerequisite Units:

MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN220	Computational Mathematics 1
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN413	Differential Equations
MAN422	Mathematical Modelling

Computational Mathematics

Advanced Postgraduate Mathematics Units:

MAN521	Applied Mathematics 3
MAN522	Computational Mathematics 3
MAN771	Computational Mathematics 4

Prerequisite Units:

MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN220	Computational Mathematics 1
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN420	Computational Mathematics 2
MAN480	Introduction to Scientific Computation

Operations Research

Advanced Postgraduate Mathematics Units:

MAN525	Operations Research 3A
MAN625	Operations Research 3B
MAN768	Advanced Techniques in Operations Research

Prerequisite Units:

MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN210	Statistical Modelling 1
MAN315	Operations Research 2

Statistics/Statistical Modelling

Advanced Postgraduate Mathematics Units:

MAN524	Statistical Inference
MAN533	Statistical Techniques
MAN536	Time Series Analysis
MAN624	Applied Statistics
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis
MAN775	Statistical Modelling of Financial Processes

Prerequisite Units:

MAN101	Statistical Data Analysis 1
MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN210	Statistical Modelling 1

MAN314	Statistical Modelling 2
MAN414	Applied Statistics 2

Quantitative Analysis/Financial Mathematics	
	Advanced Postgraduate Mathematics Units:
MAN524	Statistical Inference
MAN533	Statistical Techniques
MAN536	Time Series Analysis
MAN623	Financial Mathematics
MAN624	Applied Statistics
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis
MAN769	Mathematics of Finance
MAN775	Statistical Modelling of Financial Processes
	Prerequisite Units:
MAN101	Statistical Data Analysis 1
MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN210	Statistical Modelling 1
MAN313	Mathematics of Finance
MAN314	Statistical Modelling 2
MAN413	Differential Equations
MAN414	Applied Statistics 2

Other Units:	
MAN281	Mathematics for Computer Graphics
MAN461	Discrete Mathematics
MAN778	Applications of Discrete Mathematics

Mathematics for Secondary Teaching

Students interested in teaching would usually select across a range of areas of mathematics and statistics, but must take at least 24 credit points from advanced postgraduate mathematics units.

Students could select up to 24 credit points from units offered by the Faculty of Education related to the teaching of mathematics.

Potential Careers:

Actuary, Mathematician, Quantitative Analyst, Statistician.

Master of Mathematical Science (MA85)

Year offered: 2010
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): 2010: Full fee tuition $7,350 (indicative) per semester
International Fees (indicative): 2010: $10,500 (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: Dr Troy Farrell
Discipline coordinator: Dr Troy Farrell
Campus: Gardens Point

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.

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 to enrol, an applicant will normally have completed an undergraduate degree in any discipline. Students who do not have sufficient background may be advised to enrol in MA65 Graduate Certificate in Mathematical Sciences first, subject to approval of the Head of the relevant discipline area.

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.

Further Information

For further information about this course, please contact:

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

Course structure

- Total credit points: 48
- At least 36 credit points must be taken from postgraduate mathematics units.
- Up to 12 credit points can be taken from units other than mathematics units.
- The units recommended will depend upon your mathematics background from secondary school or tertiary studies, length of time since you have studied mathematics, and your areas of interest.

Units available:	
MAN101	Statistical Data Analysis 1
MAN105	Preparatory Mathematics
MAN120	Algebra and Calculus
MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN200	Mathematical Foundations
MAN201	Mathematics
MAN210	Statistical Modelling 1
MAN220	Computational Mathematics 1
MAN281	Mathematics for Computer Graphics
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN313	Mathematics of Finance
MAN314	Statistical Modelling 2
MAN315	Operations Research 2
MAN413	Differential Equations
MAN414	Applied Statistics 2
MAN420	Computational Mathematics 2
MAN422	Mathematical Modelling
MAN461	Discrete Mathematics
MAN480	Introduction to Scientific Computation
MAN521	Applied Mathematics 3
MAN522	Computational Mathematics 3
MAN524	Statistical Inference
MAN525	Operations Research 3A

MAN533	Statistical Techniques
MAN536	Time Series Analysis
MAN613	Partial Differential Equations
MAN623	Financial Mathematics
MAN624	Applied Statistics
MAN625	Operations Research 3B
MAN672	Advanced Mathematical Modelling
MAN700	Project
MAN717	Minor Project
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis
MAN768	Advanced Techniques in Operations Research
MAN769	Mathematics of Finance
MAN771	Computational Mathematics 4
MAN774	Perturbation Methods
MAN775	Statistical Modelling of Financial Processes
MAN777	Mathematics of Fluid Flow
MAN778	Applications of Discrete Mathematics
MAN787-1	Project
MAN787-2	Project
MAN787-3	Project

Course structure Note

If you wish to take any of the project units you will need to discuss your plans and the proposed content with the Course Coordinator.

Strand Information

The following strand information is to assist you with unit selection. You do not have to enrol in all units listed for a strand. The prerequisite units are given to guide you. Depending on your background, you may have already covered some of the units listed (or equivalent units) in your undergraduate studies. If you have not studied any mathematics for some time, you may need to undertake one or two units prior to commencing those listed in the strand information.

Mathematical Modelling/Applied Mathematics

Advanced Postgraduate Mathematics Units:

MAN521	Applied Mathematics 3
MAN613	Partial Differential Equations
MAN672	Advanced Mathematical Modelling
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN774	Perturbation Methods
MAN777	Mathematics of Fluid Flow

Prerequisite Units:

MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN220	Computational Mathematics 1
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN413	Differential Equations
MAN422	Mathematical Modelling

Computational Mathematics

Advanced Postgraduate Mathematics Units:

MAN521	Applied Mathematics 3
MAN522	Computational Mathematics 3
MAN771	Computational Mathematics 4

Prerequisite Units:

MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN220	Computational Mathematics 1
MAN311	Advanced Calculus
MAN312	Linear Algebra
MAN420	Computational Mathematics 2
MAN480	Introduction to Scientific Computation

Operations Research

Advanced Postgraduate Mathematics Units:

MAN525	Operations Research 3A
MAN625	Operations Research 3B
MAN768	Advanced Techniques in Operations Research

Prerequisite Units:

MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN210	Statistical Modelling 1
MAN315	Operations Research 2

Statistics/Statistical Modelling

Advanced Postgraduate Mathematics Units:

MAN524	Statistical Inference
MAN533	Statistical Techniques
MAN536	Time Series Analysis
MAN624	Applied Statistics
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis
MAN775	Statistical Modelling of Financial Processes

Prerequisite Units:

MAN101	Statistical Data Analysis 1
MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN210	Statistical Modelling 1
MAN314	Statistical Modelling 2

MAN414	Applied Statistics 2

Quantitative Analysis/Financial Mathematics	
	Advanced Postgraduate Mathematics Units:
MAN524	Statistical Inference
MAN533	Statistical Techniques
MAN536	Time Series Analysis
MAN623	Financial Mathematics
MAN624	Applied Statistics
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis
MAN769	Mathematics of Finance
MAN775	Statistical Modelling of Financial Processes
	Prerequisite Units:
MAN101	Statistical Data Analysis 1
MAN121	Calculus and Differential Equations
MAN122	Algebra and Analytic Geometry
MAN210	Statistical Modelling 1
MAN313	Mathematics of Finance
MAN314	Statistical Modelling 2
MAN413	Differential Equations
MAN414	Applied Statistics 2

Other Units:	
MAN281	Mathematics for Computer Graphics
MAN461	Discrete Mathematics
MAN778	Applications of Discrete Mathematics

Mathematics for Secondary Teaching

Students interested in teaching would usually select across a range of areas of mathematics and statistics, but must take at least 36 credit points from advanced postgraduate mathematics units.

Students can select up to 24 credit points from units offered by the Faculty of Education related to the teaching of mathematics.

Potential Careers:

Actuary, Mathematician, Quantitative Analyst, Statistician.

Graduate Certificate In Plant Biosecurity (NR45)

Year offered: 2010
Admissions: Yes
Course duration (part-time): 2 semesters
Domestic fees (indicative): 2010: Full fee tuition $14,350 (indicative) per semester
International Fees (indicative): 2010: $14,250 (indicative) per semester
Domestic Entry: February
International Entry: February - (Note: THIS IS AN EXTERNAL COURSE AND IS NOT AVAILABLE TO ONSHORE INTERNATIONAL STUDENTS ON STUDENT VISAS)
Total credit points: 48
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Anthony Clarke
Campus: External

Course Design

Biosecurity is a rapidly growing field of national and international importance. Recent high profile pest and disease incursions into Australia, such as equine influenza, citrus canker and red imported fire ant, highlight the threat of exotic organisms to our animal industries, plant industries and native environment respectively. While human and animal health issues often have a higher public profile than plant health issues, this does not mean that plant health issues are any less important. For example, should the exotic wheat disease karnal bunt ever enter and establish in Australia, it is calculated that it would cost the national economy $1 billion per year and fundamentally change our agricultural export sector.

Entry Requirements

Applicants must possess a Bachelors Degree, however with significant professional experience in plant biosecurity or a related discipline (eg entomology, plant pathology, quarantine) may enter at the Graduate Certificate level (NR45) and progress from Graduate Certificate to Graduate Diploma (NR55) then to the Masters program. If entering the Master of Plant Biosecurity following initial entry into the Graduate Certificate based on prior professional experience, students will not receive advanced credit for IFN100.

In 2009 this degree will only be delivered on a part-time basis and externally in a full-flexible mode by a consortium of Australian universities*. Due to student visa requirements, International students cannot do this course from within Australia. All students are required to fulfil the compulsory residential component# and will need to make their own visa arrangements. In most cases a tourist visa will be the preferred option; however prospective students should confirm their visa situation prior to enrolling in this course.

* Subject to final

Career Outcomes

Graduates will be able to pursue careers in biosecurity, quarantine and pest management, acting in technical, research and administrative roles, with organisations such as the State Departments of Agriculture, State Biosecurity Agencies, AQIS, Biosecurity Australia, Plant Health Australia and private industry, or their international counterparts depending on your nationality.

Professional Recognition

Graduates will be eligible to apply for membership for non-accredited societies, such as the Australian Entomological Society, the Australian Plant Pathology Society, the Australian Ecological Society, the Australian Institute of Agricultural Science, the Australian Society of Horticultural Sciences and the Australian Society for Risk Analysis.

Contact Details

Course Coordinator
Associate Professor Anthony Clarke
Phone: +61 7 3138 5023
Email: a.clarke@qut.edu.au

Course structure - Part-time

Year 1, Semester 1	
	Select TWO units from the following:
NRN106	Biosecurity Plant Pests - Invertebrates
NRN107	Biosecurity Plant Pests - Pathogens
NRN108	Biosecurity Plant Pests - Weeds
Year 2, Semester 1	
NRN120	Plant Biosecurity: Detection and Diagnostics
NRN150	Plant Biosecurity in Practice

Course Structure - Full Time

NRN120	Plant Biosecurity: Detection and Diagnostics
NRN150	Plant Biosecurity in Practice
	Select two units from the following:
NRN106	Biosecurity Plant Pests - Invertebrates
NRN107	Biosecurity Plant Pests - Pathogens
NRN108	Biosecurity Plant Pests - Weeds

Graduate Diploma In Plant Biosecurity (NR55)

Year offered: 2010
Admissions: Yes
Course duration (part-time): 4 semesters (2 years)
Domestic fees (indicative): 2010: Full fee tuition $14,350 (indicative) per semester
International Fees (indicative): 2010: $14,250 (indicative) per semester
Domestic Entry: February
International Entry: February - (Note: THIS IS AN EXTERNAL COURSE AND IS NOT AVAILABLE TO ONSHORE INTERNATIONAL STUDENTS ON STUDENT VISAS)
Total credit points: 96
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Anthony Clarke
Campus: External

Course Design

Biosecurity is a rapidly growing field of national and international importance. Recent high profile pest and disease incursions into Australia, such as equine influenza, citrus canker and red imported fire ant, highlight the threat of exotic organisms to our animal industries, plant industries and native environment respectively. While human and animal health issues often have a higher public profile than plant health issues, this does not mean that plant health issues are any less important. For example, should the exotic wheat disease karnal bunt ever enter and establish in Australia, it is calculated that it would cost the national economy $1 billion per year and fundamentally change our agricultural export sector.

Entry Requirements

Applicants must possess a Bachelors Degree, however with significant professional experience in plant biosecurity or a related discipline (eg entomology, plant pathology, quarantine) may enter at the Graduate Certificate level (NR45) and progress from Graduate Certificate to Graduate Diploma (NR55) then to the Masters program. If entering the Master of Plant Biosecurity following initial entry into the Graduate Certificate based on prior professional experience, students will not receive advanced credit for IFN100.

In 2009 this degree will only be delivered on a part-time basis and externally in a full-flexible mode by a consortium of Australian universities*. Due to student visa requirements, International students cannot do this course from within Australia. All students are required to fulfil the compulsory residential component# and will need to make their own visa arrangements. In most cases a tourist visa will be the preferred option; however prospective students should confirm their visa situation prior to enrolling in this course.

* Subject to final

Career Outcomes

Graduates will be able to pursue careers in biosecurity, quarantine and pest management, acting in technical, research and administrative roles, with organisations such as the State Departments of Agriculture, State Biosecurity Agencies, AQIS, Biosecurity Australia, Plant Health Australia and private industry, or their international counterparts depending on your nationality.

Professional Recognition

Graduates will be eligible to apply for membership for non-accredited societies, such as the Australian Entomological Society, the Australian Plant Pathology Society, the Australian Ecological Society, the Australian Institute of Agricultural Science, the Australian Society of Horticultural Sciences and the Australian Society for Risk Analysis.

Early Exit Options

NR45: Graduate Certificate in Plant Biosecurity - 48CP

Contact Details

Course Coordinator
Associate Professor Anthony Clarke
Phone: +61 7 3138 5023
Email: a.clarke@qut.edu.au

Course structure - Full-time

Year 1, Semester 1	
NRN120	Plant Biosecurity: Detection and Diagnostics
NRN150	Plant Biosecurity in Practice
	Select TWO units from the following:
NRN106	Biosecurity Plant Pests - Invertebrates
NRN107	Biosecurity Plant Pests - Pathogens
NRN108	Biosecurity Plant Pests - Weeds

Year 1, Semester 2	
NRN210	Invasion Biology: Foundations of Biosecurity
NRN215	Risk Assessment
NRN218	Community Engagement and Participation
NRN220	Policy Framework Obligations

Course structure - Part-time

Year 1, Semester 1	
	Select TWO units from the following:
NRN106	Biosecurity Plant Pests - Invertebrates
NRN107	Biosecurity Plant Pests - Pathogens
NRN108	Biosecurity Plant Pests - Weeds

Year 1, Semester 2	
NRN210	Invasion Biology: Foundations of Biosecurity
NRN218	Community Engagement and Participation

Year 2, Semester 1	
NRN120	Plant Biosecurity: Detection and Diagnostics
NRN150	Plant Biosecurity in Practice

Note: NRN120 Detection and Diagnostics will b delivered online in a series of modules and through a compulsory one week residential to be held at the University of Adelaide, Waite Campus. The residential is considered a core component of the entire course, as well as of this unit. Despite advances in web technology, there are still certain skills and experiences which cannot be gained virtually. The residential is your opportunity to gain these skills, as well as getting to know your course teachings and fellow classmates in person. The residential will focus on technological competencies and problem based learning. The dates of the residential will be provided to you at the start of the teaching semester. International students will need to make their own travel arrangements to get to Adelaide.

Year 2, Semester 2	
NRN215	Risk Assessment
NRN220	Policy Framework Obligations

Master of Plant Biosecurity (NR65)

Year offered: 2010
Admissions: Yes
Course duration (part-time): 8 semesters (4 years)
Domestic fees (indicative): 2010: Full fee tuition $14,500 (indicative) per semester
International Fees (indicative): 2010: $14,250 (indicative) per semester
Domestic Entry: February
International Entry: February - (Note: THIS IS AN EXTERNAL COURSE AND IS NOT AVAILABLE TO ONSHORE INTERNATIONAL STUDENTS ON STUDENT VISAS)
Total credit points: 192
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Anthony Clarke
Campus: External

Course Design

Biosecurity is a rapidly growing field of national and international importance. Recent high profile pest and disease incursions into Australia, such as equine influenza, citrus canker and red imported fire ant, highlight the threat of exotic organisms to our animal industries, plant industries and native environment respectively. While human and animal health issues often have a higher public profile than plant health issues, this does not mean that plant health issues are any less important. For example, should the exotic wheat disease karnal bunt ever enter and establish in Australia, it is calculated that it would cost the national economy $1 billion per year and fundamentally change our agricultural export sector.

Entry Requirements

Applicants must possess a Bachelors Degree, however with significant professional experience in plant biosecurity or a related discipline (eg entomology, plant pathology, quarantine) may enter at the Graduate Certificate level (NR45) and progress from Graduate Certificate to Graduate Diploma (NR55) then to the Masters program. If entering the Master of Plant Biosecurity following initial entry into the Graduate Certificate based on prior professional experience, students will not receive advanced credit for IFN100.

In 2009 this degree will only be delivered on a part-time basis and externally in a full-flexible mode by a consortium of Australian universities*. Due to visa requirements, International students cannot do this course from within Australia. All students are required to fulfil the compulsory residential component# and will need to make their own visa arrangements. In most cases a tourist visa will be the preferred option; however prospective students should confirm their visa situation prior to enrolling in this course.

* Subject to final approval

Career Outcomes

Graduates will be able to pursue careers in biosecurity, quarantine and pest management, acting in technical, research and administrative roles, with organisations such as the State Departments of Agriculture, State Biosecurity Agencies, AQIS, Biosecurity Australia, Plant Health Australia and private industry, or their international counterparts depending on your nationality.

Professional Recognition

Graduates will be eligible to apply for membership for non-accredited societies, such as the Australian Entomological Society, the Australian Plant Pathology Society, the Australian Ecological Society, the Australian Institute of Agricultural Science, the Australian Society of Horticultural Sciences and the Australian Society for Risk Analysis.

Early Exit Options

- NR45: Graduate Certificate in Plant Biosecurity - 48CP
- NR55: Graduate Diploma in Plant Biosecurity - 96CP

Further Information

For further information about this course, please contact:

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

Course structure - Full-time

Year 1, Semester 1	
NRN120	Plant Biosecurity: Detection and Diagnostics
NRN150	Plant Biosecurity in Practice
	Select TWO units from the following:
NRN106	Biosecurity Plant Pests - Invertebrates
NRN107	Biosecurity Plant Pests - Pathogens
NRN108	Biosecurity Plant Pests - Weeds
Year 1, Semester 2	
NRN210	Invasion Biology: Foundations of Biosecurity
NRN215	Risk Assessment
NRN218	Community Engagement and Participation
NRN220	Policy Framework Obligations
Year 2, Semester 1	
IFN300	Masters Research
IFN302	Masters Research
Year 2, Semester 2	
IFN100	Full-Time Masters Research

Course structure - Part-time

Year 1, Semester 1	
	Select TWO units from the following:
NRN106	Biosecurity Plant Pests - Invertebrates
NRN107	Biosecurity Plant Pests - Pathogens
NRN108	Biosecurity Plant Pests - Weeds
Year 1, Semester 2	
NRN210	Invasion Biology: Foundations of Biosecurity

NRN218 Community Engagement and Participation

Year 2, Semester 1

NRN120 Plant Biosecurity: Detection and Diagnostics

NRN150 Plant Biosecurity in Practice

Year 2, Semester 2

NRN215 Risk Assessment

NRN220 Policy Framework Obligations

Year 3, Semester 1

IFN200 Part-Time Masters Research

Year 3, Semester 2

IFN301 Masters Research

Year 4, Semester 1

IFN300 Masters Research

Year 4, Semester 2

IFN302 Masters Research

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

Year offered: 2010
Admissions: Yes
CRICOS code: 037588F
Course duration (full-time): 3 Years
Domestic fees (indicative): 2010: CSP $3,240 (indicative) per semester
International Fees (indicative): 2010: $10,750 (indicative) per semester
Domestic Entry: February. For 2011 entry, please refer to ST30 Bachelor of Medical Imaging Science
International Entry: February - IELTS of 7.0 with no sub-score less than 7.0, or its equivalent Occupational English Test
QTAC code: 418182
Past rank cut-off: 96
Past OP cut-off: 3
Assumed knowledge: English (4, SA), Maths B (4, SA) and Physics (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 288
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Pam Rowntree
Discipline coordinator: Debbie Starkey
Campus: Gardens Point

OP Guarantee

The OP Guarantee does not apply to this program.

Majors

There are two majors in the Bachelor of Applied Science - Medical Radiation Technology. Students choose either Radiotherapy Technology or Medical Imaging Technology

Career Outcomes

After graduating from the Medical Imaging Technology major, you may be employed as a medical imaging technologist or diagnostic radiographer. The Radiotherapy Technology major allows you to work as a radiation therapist.

Professional Recognition

On graduation with the Medical Imaging major, students will be eligible for provisional accreditation by the Australian Institute of Radiography. On graduation with the Radiotherapy Technology major, you will be eligible for provisional accreditation by the Australian Institute of Radiography (AIR).

Course Requirements

Students in this course should satisfy criteria related to health status. Students must declare height, physical disabilities, treatment of nervous condition and/or drug/alcohol disorder, and a current immunisation status (specifically Hepatitis B) as part of the online enrolment process.

Why Choose this Course?

This course is designed in consultation with clinical staff from radiology and radiation oncology 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.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, portfolios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Further Information

For Further information on the course, pleaes contact the following:

Course Coordinator
Radiotherapy Technology
Associate Professor Pam Rowntree
Phone: +61 7 3138 2346
Email: p.rowntree@qut.edu.au

Course Coordinator
Medical Imaging Technology
Debbie Starkey
Phone: +61 7 3138 2596
Email: d.starkey@qut.edu.au

Course structure for students who commenced in 2009 and will commence in 2010

Year 1, Semester 1	
LSB145	Anatomy 1
PCB007	Patient Care in Professional Practice
PCB178	Principles of Medical Radiations
PCB272	Radiation Physics

Year 1, Semester 2	
LSB245	Anatomy 2 and Introductory Pathology
PCB276	General Radiography 1
PCB277	Radiographic Practice
PCB675	Radiation Safety and Biology

Year 2, Semester 1	
LSB321	Systematic Pathology
LSB345	Regional & Imaging Anatomy 1

PCB375-1	Radiographic Equipment
PCB377	General Radiography 2
PCB379	Clinical Radiography 1

Year 2, Semester 2

LSB445	Regional and Imaging Anatomy 2
PCB375-2	Radiographic Equipment
PCB476	Special Procedures
PCB477	Complementary Imaging Techniques
PCB479	Clinical Radiography 2

Year 3, Semester 1

PCB567	Advanced Radiographic Technique 1
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
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: 2010
Admissions: Yes
CRICOS code: 037588F
Course duration (full-time): 3 Years
Domestic fees (indicative): 2010: CSP $3,240 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 288
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Pam Rowntree
Campus: Gardens Point

QUT is the only university in Queensland to offer a radiotherapy technology qualification. This course leads to employment as a radiation therapist, assisting cancer patients at the most difficult time in their lives.

Other Majors

See also the separate entry for the following major in this course: Bachelor of Applied Science - Medical Radiation Technology (Medical Imaging Technology).

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.

Additional Entry Requirements

Radiotherapy Technology applicants are required to lodge a questionnaire, available from **addentry.qut.com**, by no later than **1 December 2010** (questionnaire available late August).

Early Closing Date

Late QTAC applications and changes of preference for this program close on **27 November 2009**.

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 in this course. Please read the Blue Card information (http://bluecard.qut.com) and ensure that you allow adequate time for processing your application and issuing of the card in order to avoid clinical experience delays.

Deferment

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

Further Information

For further information about this course, please contact:

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 will commence in 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	MegavoltageTherapy 1
PCB675	Radiation Safety and Biology

Year 2, Semester 1

LSB321	Systematic Pathology
LSB345	Regional & Imaging Anatomy 1
PCB389	Clinical Radiotherapy 1
PCB396	Radiotherapy Planning and Physics
PCB397-1	Megavoltage Therapy 2

Year 2, Semester 2

LSB445	Regional and Imaging Anatomy 2
PCB397-2	Megavoltage Therapy 2
PCB489	Clinical Radiotherapy 2
PCB495	Computer Assisted Treatment Planning 1
PCB496	Radiotherapy Equipment

Year 3, Semester 1

PCB587	Specialised Radiotherapy Technique 1
PCB590-1	Clinical Radiotherapy 3
PCB593	Digital Image Processing
PCB595	Computer Assisted Treatment Planning 2
PCB672-1	Project

Year 3, Semester 2

PCB590-2	Clinical Radiotherapy 3
PCB672-2	Project
PCB687	Specialised Radiotherapy Technique 2
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	MegavoltageTherapy 1

Year 2, Semester 1

LSB321	Systematic Pathology
LSB345	Regional & Imaging Anatomy 1
PCB389	Clinical Radiotherapy 1
PCB396	Radiotherapy Planning and Physics
PCB397-1	Megavoltage Therapy 2

Year 2, Semester 2

LSB445	Regional and Imaging Anatomy 2
PCB397-2	Megavoltage Therapy 2
PCB489	Clinical Radiotherapy 2
PCB495	Computer Assisted Treatment Planning 1
PCB496	Radiotherapy Equipment

Year 3, Semester 1

PCB587	Specialised Radiotherapy Technique 1
PCB590-1	Clinical Radiotherapy 3
PCB593	Digital Image Processing
PCB595	Computer Assisted Treatment Planning 2
PCB672-1	Project

Year 3, Semester 2

PCB590-2	Clinical Radiotherapy 3
PCB672-2	Project
PCB675	Radiation Safety and Biology
PCB687	Specialised Radiotherapy Technique 2
PCB695	Advanced Treatment Planning Topics

Potential Careers:

Radiation Therapist.

Graduate Certificate in Applied Science (Breast Ultrasound) (PH60)

Year offered: 2010
Admissions: Yes
Course duration (part-time): 2 semesters (1 year)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (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

Entry requirements

To be eligible to enrol, 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 enrol subject to approval.

Professional Recognition

This course is accredited with the Australasian Sonographer Accreditation Registry (ASAR).

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. If students are not based in Brisbane, this structure allows attendance by offering the formal classroom component in an intensive one-week block in each semester.

Overview

The Graduate Certificate in Applied Science (Breast Ultrasound) course offers studies specifically in breast ultrasound techniques. Students are given the scientific basis for understanding, using and evaluating relevant equipment and techniques. The course particularly suits radiographers, medical imaging technologists and sonographers who are interested in an in-depth study of this rapidly developing speciality area of ultrasound.

Further Information

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

Course Coordinator
Associate Professor Pam Rowntree
Phone: +61 7 3138 2346
Email: p.rowntree@qut.edu.au

Discipline Coordinator
Gillian Kennedy (Breast Ultrasound)
Phone: +61 7 3138 7684
Email: gillian.kennedy@qut.edu.au

Course structure

To complete the Graduate Certificate in Applied Science (Breast Ultrasound) students must complete the units listed below (total 48 credit points)

Semester 1	
PCN162	Principles of Medical Ultrasound
PCN187	Specialist Studies
PCN397-1	Clinical Attachment

Semester 2	
PCN184	Breast Imaging
PCN397-2	Clinical Attachment
NOTE:	The PCN397 clinical attachment unit is a 2 semester unit

Potential Careers:

Sonographer.

Graduate Certificate in Lighting (on-shore) (PH62)

Year offered: 2010
Admissions: Yes
Course duration (part-time): 2 semesters (1 year) (Internal and External)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (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

(a) Bachelor level degree in an appropriate field

OR

(b) Demonstrated minimum of 3 years of relevant experience in the lighting industry and successful completion of one or more recognised Introductory Courses in Lighting as determined by the Course Coordinator. (Note: Students entering without a Bachelor degree can only enrol initially in PH62, and must successfully complete this program before they can enrol in PH72 or PH82.)

Note: Students with relevant experience in the lighting industry or recognised educational qualifications in lighting may be granted credit in PH62/PH63 to a maximum of 24 credit points.

Course Design

Graduate Certificate students will undertake four units (12 credit points each) covering the perception, specification and measurement of light, lamp and luminaire design, lighting design, sustainability issues and human factors.

Further Information

Course Coordinator

Associate Professor Ian Cowling
Phone: +61 7 3138 2592
Email: i.cowling@qut.edu.au

Course structure - Part-time

Year 1, Semester 2 (July to October)	
PCN121	Vision Colour and Photometry
PCN124	Lamps and Luminaires

Year 2, Semester 1 (February to June)	
PCN122	Lighting Design
PCN123	Sustainability and Human Factors

NOTES: PH62 is offered part-time comprising a lecture/tutorial format, and where appropriate practical and field work. Some units will have a significant computer-design type component and all units will incorporate learning through assignment work, all of which will be incorporated into the assessment program. Most units in the internal mode will be offered in block format on weekends.

Domestic students in the Graduate Certificate in Lighting (PH62) will be invited, on successful completion of 48 credit points, to continue with studies in the Graduate Diploma in Lighting (PH72), or can enrol directly in Master of Lighting (PH82).

International students wishing to change courses should consult International Student Business Services.

Potential Careers:

Architect , Electrical Contractor, Electrical Engineer, Energy Consultant, Industrial Designer, Landscape Architect, Lighting Designer, Lighting Technician, Luminaire Designer, Physicist, Sales Person, Scientist, Theatre Lighting.

Graduate Certificate in Lighting (off-shore) (PH63)

Year offered: 2010
Admissions: No
Course duration (external): 2 semesters part-time (Hong Kong)
Domestic fees (indicative): Off-shore Course
International Entry: September
Total credit points: 48
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Ian Cowling
Campus: City University of Hong Kong

Overview

The Graduate Certificate in Lighting (PH63) is designed primarily for people working in any area of lighting, whether it be design or application, sales or installation, purpose directed or just entertainment.

The Graduate Certificate in Lighting (PH63) is designed to provide 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) Demonstrated minimum of 3 years of relevant experience in the lighting industry and successful completion of one or more recognised Introductory Courses in Lighting as determined by the Course Coordinator. (Note: Students entering without a Bachelor degree can only enrol initially in PH63, and must successfully complete this program before they can enrol in PH73 or PH83.)

Note: Students with relevant experience in the lighting industry or recognised educational qualifications in lighting may be granted credit in PH62/PH63 to a maximum of 24 credit points.

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, daylighting and the human factors of lighting.

Course Details

Course Coordinator

Associate Professor Ian Cowling
Phone: +61 7 3138 2592
Email: i.cowling@qut.edu.au

Course structure - Part-time

Year 1, Semester 2 (September to December)	
PCZ121	Vision Colour and Photometry
PCZ124	Lamps and Luminaires

Year 2, Semester 1 (January to April)	
PCZ122	Lighting Design
PCZ123	Sustainability and Human Factors

NOTES: PH63 is offered part-time in a combination of face-to-face lecture/tutorial/practical format, and on-line. Some units will have a computer-design type component and all units will incorporate learning through assignment work, all of which will be incorporated into the assessment program. The two units offered each semester will be presented sequentially. The face-to-face teaching component will be offered in block form over a weekend, usually on the first weekend of the teaching period assigned to that unit. There will then be a follow-up face-to-face session about three weekends later.

Students in the Graduate Certificate in Lighting (PH63) wishing to continue their studies in the Graduate Diploma of Lighting (PH73), on successful completion of 48 credit points, are required to seek admission using an International Student Degree Program Application (F) Form.

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: 2010
Admissions: Yes
CRICOS code: 020315D
Course duration (full-time): 2 semesters (1 year)
Course duration (part-time): 4 semesters (2 years)
Domestic fees (indicative): 2010: CSP $3,300 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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

Entry Requirements

Applicants must possess an acceptable tertiary course with a major in physics. Applicants with other qualifications (eg engineering) may enrol with the approval of the Head of the School of Physical and Chemical Sciences. In some instances, a modified program may be necessary.

Course Design

This degree comprises assessed coursework such as advanced lectures, seminars, reading courses or independent study. If undertaken full-time, students will need an average of 14 hours a week of formal contact.

Students who have completed the Graduate Diploma may enter Stage 2 of the Master of Applied Science - PH80 where they undertake a program of supervised research and investigation that can be completed at QUT, or in a suitable external institution.

Professional Recognition

The course has been accredited by the Australasian College of Physical Sciences and Engineers in Medicine (ACPSEM) and graduates of the course will receive exemptions for the academic requirements of the ACPSEM Training, Education and Accreditation Program (TEAP) for Medical Physicists. Full exemption will be granted for the Master of Applied Science and coursework component exemption will be granted for the Graduate Diploma. The TEAP is a 5 year registrar training program leading to accreditation as a Medical Physicist and further details may be found at www.acpsem.org.au.

Overview

The Graduate Diploma/Master of Applied Science (Medical Physics) deals with well-established and emerging areas of medical and health physics and includes the following topics: clinical measurement, computing, health physics, instrumentation, medical electronics, medical imaging, physiological monitoring, physics of radiotherapy, radiobiology, radiological imaging sciences.

The coursework also contains an introduction to the clinical sciences. From this, prospective medical physicists learn to appreciate the clinical nature of medical situations and how to communicate better with other clinical staff.

Graduates can seek employment in hospitals, health departments, mining companies, 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. Duties as a professional medical physicist include:

- applying electronics, ultrasonics, radiation and computers to clinical and environmental problems
- monitoring the environment to maintain acceptable standards in the workplace and the community
- applying fundamental physical research in development programs
- responsibility for calibration, care and maintenance of instruments and apparatus.

Further Information

For further information about this course, please contact:

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

Course structure - First Semester Entry - Full-time Course

Year 1, Semester 1 (February to June)	
LSB142	Human Anatomy and Physiology
PCN113	Radiation Physics
PCN114	Microprocessors and Instrumentation
PCN211	Physics of Medical Imaging

Year 1, Semester 2 (July to October)	
PCN112	Medical Imaging Science
PCN212	Radiotherapy
PCN214	Health and Occupational Physics
PCN218	Research Methodology and Professional Studies

Course structure - First Semester Entry - Part-time Course

Year 1, Semester 1 (February to June)	
LSB142	Human Anatomy and Physiology
PCN113	Radiation Physics

Year 1, Semester 2 (July to October)	
PCN112	Medical Imaging Science
PCN212	Radiotherapy

Year 2, Semester 1 (February to June)	
PCN114	Microprocessors and Instrumentation
PCN211	Physics of Medical Imaging

Year 2, Semester 2 (July to October)	
PCN214	Health and Occupational Physics
PCN218	Research Methodology and Professional Studies

Course structure - Mid-Year Entry - Full-time Course

Year 1, Semester 2 (July to October)	
LSB182	Bioscience 1
PCN112	Medical Imaging Science
PCN212	Radiotherapy
PCN214	Health and Occupational Physics

Year 2, Semester 1 (February to June)	
PCN113	Radiation Physics
PCN114	Microprocessors and Instrumentation
PCN218	Research Methodology and Professional Studies
PCN211	Physics of Medical Imaging

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

Year 1, Semester 2 (July to October)	
LSB182	Bioscience 1
PCN112	Medical Imaging Science

Year 2, Semester 1 (February to June)	
PCN113	Radiation Physics
PCN114	Microprocessors and Instrumentation

Year 2, Semester 2 (July to October)	
PCN212	Radiotherapy
PCN214	Health and Occupational Physics

Year 3, Semester 1 (February to June)	
PCN211	Physics of Medical Imaging
PCN218	Research Methodology and Professional Studies

Potential Careers:

Health Physicist, Medical Equipment Sales, Medical Physicist.

Graduate Diploma in Applied Science (Medical Ultrasound) (PH71)

Year offered: 2010
Admissions: Yes
CRICOS code: 020315D
Course duration (part-time): 4 semesters (2 years)
Domestic fees (indicative): 2010: CSP $3,300 (indicative) per semester
Domestic Entry: February. Applications are to be made by 1 December in the preceding year.
Total credit points: 96
Standard credit points per part-time semester: 24
Course coordinator: Dr Andrew Fielding
Discipline coordinator: Mr. Chandeep Bakshi
Campus: Gardens Point

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.

Overview

The Graduate Diploma and Master of Applied Science courses offer studies in medical ultrasound. Students are given the scientific basis for understanding, using and evaluating relevant equipment and techniques. The course particularly suits radiographers, medical imaging technologists and nuclear medicine technologists who are interested in an in-depth study of this rapidly developing area.

Professional Recognition

This course is accredited with the Australasian Sonographer Accreditation Registry (ASAR).

Course Design

This degree consists of two stages. 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 beginning the degree. Lectures are conducted in intensive 4-5 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.

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

Discipline Coordinator
Mr. Chandeep Bakshi
Phone: +61 7 3138 4113
Email: chandeep.bakshi@qut.edu.au

Course structure - Part-time

Students must complete the units listed below (total 96 credit points)

Year 1, Semester 1	
PCN159	Ultrasonic Examination 1
PCN162	Principles of Medical Ultrasound
PCN197-1	Clinical Attachment 1

Year 1, Semester 2	
PCN197-2	Clinical Attachment 1
PCN356	Ultrasonic Examination 2

Year 2, Semester 1	
PCN297-1	Clinical Attachment 2
PCN355	Vascular Ultrasound
PCN357	Advanced Ultrasound Topics

Year 2, Semester 2	
PCN218	Research Methodology and Professional Studies
PCN297-2	Clinical Attachment 2
NOTES	The PCN197 and PCN297 clinical attachment units are 2 semester units
	Each clinical attachment unit (ie PCN197 and PCN297) involves clinical experience in the order of 3 days per week or equivalent.

Potential Careers:

Sonographer.

Graduate Diploma in Lighting (on-shore) (PH72)

Year offered: 2010
Admissions: Yes
Course duration (part-time): 4 semesters (2 years) (Internal and External)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (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

(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 Management.

Further Information

For further information about this course, please contact:

Associate Professor Ian Cowling
Phone: +61 7 3138 2592
Email: i.cowling@qut.edu.au

Course structure - Part-time

Year 1, Semester 2 (July to October)	
PCN121	Vision Colour and Photometry
PCN124	Lamps and Luminaires
Year 2, Semester 1 (February to June)	
PCN122	Lighting Design
PCN123	Sustainability and Human Factors
Year 2, Semester 2 (July to October)	
PCN223	Lighting Applications
	Elective - One unit from:
PCN222	Advanced Lighting Design
PCN224	Applied Lighting
Year 3, Semester 1 (February to June)	
PCN221	Best Practices in Lighting
	Elective - One unit from:
CNP520	Project Management
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: 2010
Admissions: No
Course duration (external): 4 semesters part-time (Hong Kong)
Domestic fees (indicative): Off-shore Course
International Entry: September
Total credit points: 96
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Ian Cowling
Campus: City University of Hong Kong

Overview

The Graduate Diploma in Lighting (PH73) is designed primarily for people working in all areas of the lighting industry and engineers or architects whose work includes some aspects of lighting.

All students in the Graduate Diploma (PH73) will have undertaken the 4 units of the Graduate Certificate in Lighting (PH63), providing an overview of all aspects of lighting, including light measurement, luminaire design, design of lighting installations, sustainability, daylighting and the human aspects associated with providing good lighting.

The Graduate Diploma (PH73) then provides, through electives, the opportunity for some degree of specialisation appropriate to the student's needs and interests.

Finally the Master of Lighting (PH83) provides the opportunity for graduates of the above programs to undertake a Masters in the form of a project with some coursework.

Entry Requirements

(a) Bachelor level degree in an appropriate field

OR

(b) Successful completion of PH62/PH63 Graduate Certificate in Lighting or equivalent.

Note: Students with relevant experience in the lighting industry or recognised educational qualifications in lighting may be granted credit to a maximum of 36 credit points.

Course Design

Graduate Diploma students will undertake 24 credit points (two units) of advanced lighting design and applications studies and two other units (24 credit points) which could include at least one unit in Project Management, Project Cost and Risk Management or Quality.

Contact Details

Course Coordinator

Associate Professor Ian Cowling
Phone: +61 7 3138 2592
Email: i.cowling@qut.edu.au

Course structure - Part-time

First Semester (September to December)	
PCZ121	Vision Colour and Photometry
PCZ124	Lamps and Luminaires
Second Semester (January to April)	
PCZ122	Lighting Design
PCZ123	Sustainability and Human Factors
Third Semester (May to August)	
PCZ222	Advanced Lighting Design
PCZ223	Lighting Applications
Fourth Semester (September to December)	
PCZ221	Best Practices in Lighting
PCZ224	Applied Lighting

NOTES: PH73 is offered part-time in a combination of face-to-face lecture/tutorial/practical format, and on-line. Some units will have a computer-design type component and all units will incorporate learning through assignment work, all of which will be incorporated into the assessment program. Except for the fourth semester, the two units offered each semester will be presented sequentially. The face-to-face teaching component will be offered in block form over a weekend, usually on the first weekend of the teaching period assigned to that unit. There will then be a follow-up face-to-face session about three weekends later. In the fourth semester both units will commence at the start of the semester.

Students in the Graduate Diploma in Lighting (PH73) wishing to continue their studies in the Master of Lighting (PH83), on successful completion of 96 credit points, are required to seek admission using an International Student Degree Program Application (F) Form.

Students in the Graduate Diploma in Lighting (PH73) wishing to exit with the Graduate Certificate in Lighting (PH63) are required to submit an Application to Graduate Early with an Approved Exit Course (SRX) Form in their final semester of study.

Potential Careers:

Architect , Electrical Contractor, Electrical Engineer, Energy Consultant, Industrial Designer, Landscape Architect, Lighting Designer, Lighting Technician, Luminaire Designer, Physicist, Sales Person, Scientist, Theatre Lighting.

Graduate Diploma in Cardiac Ultrasound (PH75)

Year offered: 2010
Admissions: Yes
Course duration (part-time): 4 semesters (2 years) (External only)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester (Please refer to Domestic Fees note below)
International Fees (indicative): 2010: $9,000 (indicative) per semester
Domestic Entry: February: Early Closing Date - 1 December 2009. Early closing date for PH75 and PH85 Semester 1 2009 entry, pending quota being filled. Beyond this date, late applicants should contact the course coordinator for admission advice.
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: Gardens Point

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: **studentservices.qut.edu.au/costs/schedule/table_b/**

Entry Requirements

To be eligible to enrol an applicant is required to have either a diploma level qualification with a minimum of 5 years clinical experience in cardiac ultrasound or a bachelor degree in a relevant science or allied health field. In addition the applicant must have a minimum of 3 months full-time equivalent prior supervised, hands-on clinical experience in cardiac ultrasound as well as access to suitable clinical experience for the duration of the course.

Students must give written proof of prior supervised, clinical experience and access to suitable clinical experience for the duration of the course.

Professional Recognition

This course is accredited with the Australasian Sonographer Accreditation Registry (ASAR).

Course Design

This course consists of two stages. 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 adequate access to clinical cardiac ultrasound experience for the duration of the course. If students are not based in Brisbane, this structure allows attendance by offering the formal classroom component in an intensive one-week block in each semester.

Stage 2 (Master of Cardiac Ultrasound - PH85) involves the completion of a research project and submission of a thesis. Students can undertake this project internally at QUT, or externally under QUT staff supervision and the guidance of a suitable external supervisor. This stage would normally take one year part-time to complete.

Overview

The Graduate Diploma in Cardiac Ultrasound program offers studies for practicing Cardiac Sonographers. The course is conducted using a combination of block classes of approximately one week's duration in each semester, web-based modules and clinical practice modules.

Further Information

For further Information about this course, please contact:

Bonita Anderson
Phone: +61 7 3138 2585
Email: b.anderson@qut.edu.au

Course structure

Year 1, Semester 1	
PCN155	Cardiac Ultrasound 1
PCN162	Principles of Medical Ultrasound
PCN497-1	Clinical Attachment 4

Year 1, Semester 2	
PCN259	Cardiac Ultrasound 2
PCN497-2	Clinical Attachment 4

Year 2, Semester 1	
PCN218	Research Methodology and Professional Studies
PCN359	Cardiac Ultrasound 3
PCN597-1	Clinical Attachment 5

Year 2, Semester 2	
PCN459	Advanced Cardiac Ultrasound
PCN597-2	Clinical Attachment 5

NOTES: The PCN497 and PCN597 clinical attachment units are 2 semester units.

Domestic students in the Graduate Diploma in Cardiac Ultrasound (PH75) will be invited, on successful completion of 96 credit points, to continue with studies in the Master of Cardiac Ultrasound (PH85).

Potential Careers:

Sonographer.

Master of Applied Science (Medical Physics) (PH80)

Year offered: 2010
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): 2010: CSP $3,150 (indicative) per semester; Full tuition fees $7,250 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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

Other Majors

See also the separate entry for the following major in this course: Master of Applied Science (Medical Ultrasound).

Entry Requirements

Applicants must possess an acceptable tertiary course with a major in physics. Applicants with other qualifications (eg engineering may enrol with the approval of the Head of the School of Physical and Chemical Sciences. In some instances, a modified program may be necessary.

Course Design

This degree consists of two stages. Stage 1 (which is equivalent to the Graduate Diploma - PH71) comprises assessed coursework such as advanced lectures, seminars, reading courses or independent study. If undertaken full-time, students will need an average of 14 hours a week of formal contact.

In 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. Students can graduate with a Graduate Diploma in Medical Physics after satisfactory completion of Stage 1.

Professional Recognition

The course has been accredited by the Australasian College of Physical Sciences and Engineers in Medicine (ACPSEM) and graduates of the course will receive exemptions for the academic requirements of the ACPSEM Training, Education and Accreditation Program (TEAP) for Medical Physicists. Full exemption will be granted for the Master of Applied Science and coursework component exemption will be granted for the Graduate Diploma. The TEAP is a 5 year registrar training program leading to accreditation as a Medical Physicist and further details may be found at www.acpsem.org.au.

Overview

The Graduate Diploma/Master of Applied Science (Medical Physics) deals with well-established and emerging areas of medical and health physics and includes the following topics: clinical measurement, computing, health physics, instrumentation, medical electronics, medical imaging, physiological monitoring, physics of radiotherapy, radiobiology, radiological imaging sciences.

The coursework also contains an introduction to the clinical sciences. From this, prospective medical physicists learn to appreciate the clinical nature of medical situations and how to communicate better with other clinical staff.

Graduates can seek employment in hospitals, health departments, mining companies, 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. Duties as a professional medical physicist include:

- applying electronics, ultrasonics, radiation and computers to clinical and environmental problems
- monitoring the environment to maintain acceptable standards in the workplace and the community
- applying fundamental physical research in development programs
- responsibility for calibration, care and maintenance of instruments and apparatus.

Further Information

For further information about this course, please contact:

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

Course structure - First Semester Entry - Full-time Course

STAGE 1: Students must complete units from the list below, totalling 96 credit points:

Year 1, Semester 1 (February to June)	
LSB142	Human Anatomy and Physiology
PCN113	Radiation Physics
PCN114	Microprocessors and Instrumentation
PCN211	Physics of Medical Imaging

Year 1, Semester 2 (July to October)	
PCN112	Medical Imaging Science
PCN212	Radiotherapy
PCN214	Health and Occupational Physics
PCN218	Research Methodology and Professional Studies

STAGE 2: Project over One Semester or Summer Program	
PCN520	Project (Full-time)

Course structure - First Semester Entry - Part-time Course

STAGE 1: Students must complete units from the list below, totalling 96 credit points:

Year 1, Semester 1 (February to June)

LSB142	Human Anatomy and Physiology
PCN113	Radiation Physics

Year 1, Semester 2 (July to October)

PCN112	Medical Imaging Science
PCN212	Radiotherapy

Year 2, Semester 1 (February to June)

PCN114	Microprocessors and Instrumentation
PCN211	Physics of Medical Imaging

Year 2, Semester 2 (July to October)

PCN214	Health and Occupational Physics
PCN218	Research Methodology and Professional Studies

STAGE 2: Project over Two Semesters:

PCN540-1	Project (Part-time)
PCN540-2	Project (Part-time)

Course structure - Mid-Year Entry - Full-time Course

STAGE 1: Students must complete units from the list below, totalling 96 credit points:

Year 1, Semester 2 (July to October)

LSB182	Bioscience 1
PCN112	Medical Imaging Science
PCN212	Radiotherapy
PCN214	Health and Occupational Physics

Year 2, Semester 1 (February to June)

PCN113	Radiation Physics
PCN114	Microprocessors and Instrumentation
PCN211	Physics of Medical Imaging
PCN218	Research Methodology and Professional Studies

STAGE 2: Project over One Semester or Summer Program

PCN520	Project (Full-time)

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

STAGE 1: Students must complete units from the list below, totalling 96 credit points:

Year 1, Semester 2 (July to October)

LSB182	Bioscience 1
PCN112	Medical Imaging Science

Year 2, Semester 1 (February to June)

PCN113	Radiation Physics
PCN114	Microprocessors and Instrumentation

Year 2, Semester 2 (July to October)

PCN212	Radiotherapy
PCN214	Health and Occupational Physics

Year 3, Semester 1 (February to June)

PCN211	Physics of Medical Imaging
PCN218	Research Methodology and Professional Studies

STAGE 2: Project over Two Semesters:

PCN540-1	Project (Part-time)
PCN540-2	Project (Part-time)

Potential Careers:

Health Physicist, Medical Equipment Sales, Medical Physicist, Medical Scientist.

Master of Applied Science (Medical Ultrasound) (PH80)

Year offered: 2010
Admissions: Yes
CRICOS code: 043548G
Course duration (part-time): 6 semesters (3 years)
Domestic fees (indicative): 2010: CSP $3,150 (indicative) per semester; Full tuition fee $7,250 (indicative) per semeseter
Domestic Entry: February. Applications are to be made by 1 December in the preceding year.
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

Other Majors

See also the separate entry for the following major in this course: Master of Applied Science (Medical Physics).

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.

Professional Recognition

This course is accredited with the Australasian Sonographer Accreditation Registry (ASAR).

Course Design

This degree consists of two stages. 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 beginning 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.

Overview

The Master of Applied Science (PH80) course offers studies in medical ultrasound. Students are given the scientific basis for understanding, using and evaluating relevant equipment and techniques. The course particularly suits radiographers, medical imaging technologists and nuclear medicine technologists who are interested in an in-depth study of this rapidly developing area.

Further Information

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: 2010
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): 2010: Full fee tuition $7,250 (indicative) per semester
International Fees (indicative): 2010: $11,000 (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

(a) Bachelor level degree in an appropriate field

OR

(b) Successful completion of PH62/PH63 Graduate Certificate in Lighting, or 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.

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
	Electives - Two units from:
CNP520	Project Management
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
	Elective - One unit from:
PCN222	Advanced Lighting Design
PCN224	Applied Lighting

Year 3, Semester 1 (February to June)	
PCN221	Best Practices in Lighting
	Elective - One unit from:
CNP520	Project Management
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: 2010
Admissions: No
Course duration (external): 3 semesters (1 year) full-time and 6 semesters (2 years) part-time (Hong Kong)
Domestic fees (indicative): Off-shore course
International Entry: September
Total credit points: 144
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Ian Cowling
Campus: City University of Hong Kong

Overview

The Master of Lighting (PH83) is designed primarily for people working in all areas of the lighting industry and engineers or architects whose work includes some aspects of lighting. It provides the opportunity for graduates of the Graduate Certificate in Lighting (PH63) and the Graduate Diploma in Lighting (PH73) to undertake a Masters in the form of a project with some coursework.

Entry Requirements

(a) Bachelor level degree in an appropriate field

OR

(b) Successful completion of the PH72/PH73 Graduate Diploma in Lighting or equivalent.

Note: Students with relevant experience in the lighting industry or recognised educational qualifications in lighting may be granted credit to a maximum of 36 credit points.

Course Design

Masters students will undertake a 24 credit point research project, which may be based within their place of employment and two units (24 credit points) of coursework which may be reading topics associated with their project or other electives taken from any relevant units within the University, on approval of the Course Coordinator.

Contact Details

Course Coordinator

Associate Professor Ian Cowling
Phone: +61 7 3138 2592
Email: i.cowling@qut.edu.au

Course structure - Part-time

First Semester (September to December)	
PCZ121	Vision Colour and Photometry
PCZ124	Lamps and Luminaires

Second Semester (January to April)	
PCZ122	Lighting Design
PCZ123	Sustainability and Human Factors

Third Semester (May to August)	
PCZ222	Advanced Lighting Design
PCZ223	Lighting Applications

Fourth Semester (September to December)	
PCZ221	Best Practices in Lighting
PCZ224	Applied Lighting

Fifth Semester (January to April)	
PCZ321	Reading Topic 1
	Or approved elective
PCZ322	Reading Topic 2
	Or approved elective

Sixth Semester (May to August)	
PCZ320	Lighting Project

NOTE: PH83 will be offered part-time in a combination of face-to-face lecture/tutorial/practical format, and on-line. Some units will have a computer-design type component and all units will incorporate learning through assignment work, all of which will be incorporated into the assessment program. For the first three semesters the two units offered each semester will be presented sequentially. The face-to-face teaching component will be offered in block form over a weekend, usually on the first weekend of the teaching period assigned to that unit. There will then be a follow-up face-to-face session about three weekends later. For the fourth and fifth semesters both units will commence together at the start of the semester.

Students in the Master of Lighting (PH83) wishing to exit with the Graduate Certificate in Lighting (PH63) or Graduate Diploma in Lighting (PH73) are required to submit an Application to Graduate Early with an Approved Exit Course (SRX) Form in their final semester of study.

Potential Careers:

Architect , Electrical Contractor, Electrical Engineer, Energy Consultant, Industrial Designer, Landscape Architect, Lighting Designer, Lighting Technician, Luminaire Designer, Physicist, Sales Person, Scientist, Theatre Lighting.

Master of Cardiac Ultrasound (PH85)

Year offered: 2010
Admissions: Yes
Course duration (part-time): 6 semesters (3 years) (External only)
Domestic fees (indicative): 2010: Full fee tuition $7,250 (indicative) per semester
Domestic Entry: February: Early Closing Date - 1 December 2009. Early closing date for PH75 and PH85 Semester 1 2009 entry, pending quota being filled. Beyond this date, late applicants should contact the course coordinator for admission advice. Stage 1 of this course commences in February and July (students with advanced standing). Stage 2 commences in 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: Bonita Anderson
Campus: Gardens Point

Entry Requirements

To be eligible to enrol an applicant is required to have either a diploma level qualification with a minimum of 5 years clinical experience in cardiac ultrasound or a bachelor degree in a relevant science or allied health field. In addition the applicant must have a minimum of 3 months full-time equivalent prior supervised, hands-on clinical experience in cardiac ultrasound as well as access to suitable clinical experience for the duration of the course.

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).

Fees: Please note that the Domestic Fees are based on full-time studies. This course is a part-time course. Please refer to Indicative Domestic Fees (http://www.studentservices.qut.edu.au/costs/calculate/indicative.jsp) for information.

Professional Recognition

This course is accredited with the Australasian Sonographer Accreditation Registry (ASAR).

Course Design

This course consists of two stages. 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 adequate access to clinical cardiac ultrasound experience for the duration of the course. If students are not based in Brisbane, this structure allows attendance by offering the formal classroom component in an intensive one-week block in each semester.

Stage 2 (Master of Cardiac Ultrasound - PH85) involves the completion of a research project and submission of a thesis. Students undertake this project externally under QUT staff supervision and the guidance of a suitable external supervisor. This stage would normally take one year part-time to complete.

Overview

The Master of Cardiac Ultrasound program offers studies for practicing Cardiac Sonographers. The course is conducted using a combination of block classes of approximately one week's duration in each semester, web-based modules and clinical practice modules.

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 Careers:

Sonographer.

Bachelor of Applied Science (SC01)

Year offered: 2010
Admissions: Yes
CRICOS code: 003502J
Course duration (full-time): 3 Years
Course duration (part-time): 6 Years
Domestic fees (indicative): 2010: CSP $2,200 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February and July* (Conditions apply for July entry)
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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 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 Stephen Hughes (Physics Major)
Campus: Gardens Point

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.

Recommended Study

At least one of the sciences; either Chemistry, Physics, Biological Science, Earth Science or Maths C.

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

* The Forensic Science major must be taken as a double major with another science area (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.

Science Second Major Areas of Study

You will choose a second major to complement your major area of study. This second major may be one of the majors offered within the Bachelor of Applied Science, or it may be one of the science second majors listed below. Alternatively you may choose another area of study outside the sciences.

Science Second Majors:

Applied Geology:
The Applied Geology second major is designed to complement the Geoscience major. The skills learned through core units in the major are applied to activities related to the petroleum, mineral, hydrogeological and environmental professions. You will learn the specialist techniques required to understand the genesis of ore deposits, set up mineral exploration programs, produce groundwater models, understand the fluid flow in petroleum reservoirs or manage the effects of human activity on the environment.

Astrophysics:
The Astrophysics second major is an exciting blend of astrophysics, geophysics, cosmology, digital image processing and remote sensing units, designed to be taken with a major in Physics, Mathematics or Geoscience. The second major is relevant to many real-world problems and applications, including satellite technology, telecommunications, minerals exploration and global warming. By taking this second major you will develop skills in computing, instrumentation, image processing, geodesy and materials science that will be useful for a wide variety of careers in industry and the public sector.

Biodiversity:
Biodiversity has evolved over the years as a discipline concerned with the conservation and sustainable use of the earth's biological diversity. It deals with the components of biological diversity, genes to biomes, and seeks to describe and quantify this diversity, and determine how it is produced and maintained. The Biodiversity second major is designed to complement both the Ecology and Environmental Science majors. Common threads are the basic biology of the species in Australian ecosystems, the systems they are a part of, and the evolution of these species and ecosystems.

Chemistry for Industry:
The Industrial Chemistry second major is designed to partner the Chemistry major. The emphasis is on analytical chemistry and chemical technology. It aims to familiarise you with state-of-the-art equipment and modern laboratory information systems as well as online monitoring and control of industrial processes. This second major is well recognised by employers in industrial, hospital and sports laboratories, by food and pharmaceutical producers and by instrument manufacturers as well as research organisations. As a graduate from this program you can look forward to a rewarding career commencing employment as a chemist and then moving through an organisation in supervisory and managerial capacities. A number of industry-sponsored bursaries are available each year for students enrolled in the Chemistry and Chemistry for Industry second majors.

Life Science Technologies:
The many and varied disciplines which are characteristic of research and development activities in the life sciences are reflected in employer demand for a broad range of graduates with different specialisations and skills. The life sciences technologies second major addresses this demand by enabling you to tailor units from an available list to reflect your personal interests while strengthening your skills and expertise. In second year, you will undertake three units that expand your knowledge in a range of basic life science areas including physiology. In third year you will build your expertise and practical skills by selecting three advanced units from an approved list in the areas of biotechnology,

biochemistry, microbiology or physiology. The strong technology focus of these units will complement your primary major and enhance your opportunities in an ever-increasing variety of niche employment areas.

Mathematics:
Mathematical Science provides powerful tools for analysis of today's complex world and gives an insight into many important real-world problems.

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).

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

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, portfolios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

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 of the units, in excess of those already included in your major, from the Biochemistry major. 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 of the units, in excess of those already included in your major, from the Biotechnology major. 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 of the units, in excess of those already included in your major, from the Chemistry major. 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
	IT Elective Unit (2nd or 3rd year unit)

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 of the units, in excess of those already included in your major, from the Ecology major. 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

Years 2 and 3, Semester 1

ENB383	Environmental Resource Management
UDB266	Planning Processes and Consultations

Years 2 and 3, Semester 2

DEB200	Introducing Sustainability
ENB274	Design of Environmentally Sustainable Systems
ENB380	Environmental Law and Assessment
UDB164	Population and Urban Studies

Recommended Majors:

This second major is compatible with any Science major

Second Major in Environmental Science (compatible with Natural Res Science or Chemistry major only)

This second major comprises six of the units, in excess of those already included in your major, from the Environmental Science major. 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 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 of the units, in excess of those already included in your major, from the Forensic Science major. 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

INB270	Programming
INB370	Software Development
INB371	Data Structures and Algorithms
INB381	Modelling and Animation Techniques

Years 2 and 3, Semester 2

INB270	Programming
INB382	Real Time Rendering Techniques
MAB281	Mathematics for Computer Graphics

Recommended Majors:

This second major is compatible with any Mathematics or Physics major

Second Major in Geography (subject to timetable availability)

Year 1, Semester 1

Units as per selected major

Year 1, Semester 2

Units as per selected major

Years 2 and 3, Semester 1

CLB113	Australian Geographical Studies

Plus TWO units in consultation with the course coordinator.

Years 2 and 3, Semester 2

CLB105	Australia and the South Pacific
CLB110	Environment and Society
CLB111	Environmental Hazards

Recommended Majors:

This second major is compatible with any Natural Resource Science major

Second Major in Geoscience (compatible with a Natural Resource Science or Physics major only)

This second major comprises six of the units, in excess of those already included in your major, from the Geoscience major. 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 unit 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 of the units, in excess of those already included in your major, from the Microbiology major. 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

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

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

LQB481	Biochemical Pathways and Metabolism
LQB488	Medical Physiology 2
PUB201	Food and Nutrition
PUB405	Nutrition Science

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 of the units, in excess of those already included in your major, from the Physics major. 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

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: 2010
Admissions: Yes
Course duration (full-time): 3 Years (plus initial summer term)
Domestic fees (indicative): 2010: CSP $2,200 (indicative) per semester
International Fees (indicative): 2010: $12,000 (indicative) per semester
Domestic Entry: February: Fixed Closing Date- 27 November 2009.
International Entry: February: Fixed Closing Date- 27 November 2009. 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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384 [BAppSc 288 cp and BAppSc(Hons) 96 cp]
Course coordinator: Dr Dann Mallet
Discipline coordinator: Associate Professor John Aaskov (Life Sciences Major); Associate Professor David Gust (Natural Resource Sciences Major); Dr John McMurtrie (Physical and Chemical Sciences Major)
Campus: Gardens Point

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

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

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 **27 November, 2009**.

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.

Career Outcomes

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.

Course Structure

As a student in the Dean's Scholars Accelerated Honours Program you will choose one of the majors available through the Bachelor of Applied Science (SC01) course. You will also choose a co-major to accompany your major area of study.

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.

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
	Normal BAppSc and BAppSc(Hons) units: BAppSc Coursework (48 cp)

Year 2, Semester 2 (60 cp)

	Normal BAppSc and BAppSc(Hons) units: BAppSc Coursework (48 cp)
	Normal BAppSc and BAppSc(Hons) unit:
LSB657	Perspectives in Life Science

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
	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
	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: 2010
Admissions: Yes
CRICOS code: 049434C
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,150 (indicative) per semester
International Fees (indicative): 2010: $11,500 (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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr Perry Hartfield (Science); Professor Graeme Pettet (Mathematics)
Campus: Gardens Point

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.

Career Opportunities

This four-year double degree provides students with the opportunity to integrate studies in a science area with mathematics. This combination will lead to enhanced job opportunities for graduates and also provide a very sound background for students proceeding to postgraduate research studies in either a science discipline or mathematics.

Mathematics is vital for much scientific research and it is also becoming increasingly important for employees in many science-based careers to have a good background in mathematics and statistics. There are many jobs advertised where employers are ideally looking for applicants with skills and knowledge in science and mathematics. Some examples are:

Natural resource management - obtaining an accurate estimate of fish populations and predicting sustainable fishing limits requires complex mathematical and statistical modelling

Agriculture management - from climate modelling down to the individual paddock level, the interaction between forecast crop yields and prices, crop and harvest scheduling and environmental impacts

Genetics - including gene sequencing and quantitative genetics

Chemistry and Biochemistry - operations research (scheduling) and quality management techniques benefit management of a chemical testing laboratory or chemicals business; computational and applied mathematics and scientific computation and visualisation relate to research areas such as drug design using combinatorial chemistry

Infection and disease control - uses statistics and mathematical modelling

Bioinformatics - involves analysing and modelling data arising in molecular biology, genome sequencing and gene networks

Developing new physical measurement and imaging techniques - needs applied and computational mathematics

Course Structure

Mathematics provides a very precise way of describing our world and activities within it. It is used to understand and formulate current knowledge, to develop new products and processes and to assist with predicting changes which may occur under various scenarios. Mathematical techniques are used extensively in conjunction with all areas of science.

Graduates will have well-developed analytical and problem-solving skills and also practical hands-on experience in the science area of their choice. They will have the ability to use mathematical and statistical techniques across a wide range of applications and to communicate effectively with others.

This four year double degree course integrates studies in one of the science majors with studies in mathematics. The science majors available are Biochemistry, Biotechnology, Chemistry, Ecology, Environmental Science, Forensic Science, Geoscience, Microbiology and Physics.

The Mathematics component offers studies in core mathematics, applied mathematics, computational mathematics, discrete mathematics, financial mathematics, mathematical modelling, operations research, statistics, statistical modelling, scientific computation and data visualisation.

Professional Recognition

Membership of the Australian Mathematical Society, the Statistical Society of Australia Inc and the Australian Society for Operations Research is available. For professional recognition relating to the science majors refer to Bachelor of Applied Science (SC01).

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Further Information

For further information about this course pleaes contact:

Science Coordinator
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au
Alternative phone contact: +61 7 3138 2782
Alternative email: enquiry.scitech@qut.edu.au

Mathematics Coordinator
Professor Graeme Pettet
Phone: +61 7 3138 5238
Email: g.pettet@qut.edu.au

Course structure

Students must complete at least (a) 192 credit points (16 twelve credit point units) of Mathematics units and (b) 192 credit points (16 twelve credit point units) of Science units, according to the requirements as follows:

Level 1 Units:

Students must complete the following Level 1 Mathematics units:

MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry
MAB210	Statistical Modelling 1
MAB220	Computational Mathematics 1
NOTE:	MAB100 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 must complete the following Level 1 Science Foundation units:

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

In addition, students are required to complete any mandatory units - and should complete all recommended units, specified for the science major selected.

Level 2 and 3 Mathematics Units:

At least 120 credit points (10 twelve credit point units) must be taken from Level 2 and Level 3 Mathematics units with at least 48 credit points (4 twelve credit point units) from Level 3 Mathematics units:

Students must complete:

MAB311	Advanced Calculus
MAB312	Linear Algebra

Level 2 and 3 Science Units:

At least 96 credit points (8 twelve-credit point units) must be taken from Level 2 and Level 3 Science units with at least 48 credit points (4 twelve credit point units) from Level 3 Science units. The science units must meet the advanced level requirements of one of the following majors of the SC01 Bachelor of Applied Science course: Biochemistry; Biotechnology; Chemistry; Ecology; Environmental Science; Forensic Science; Geoscience: Microbiology or Physics.

Science Elective Units:

The Mathematics unit (or units) normally undertaken in the first year of SC01 Bachelor of Applied Science is replaced by a Science elective unit (or units). This Science elective unit can be from any level. The level 2 Mathematics unit in the Physics major is replaced by a level 2 Science elective unit.

Science Units: Biochemistry Major (Mandatory units)

Year 1, Semester 1

SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	TWO Mathematics Units

Year 1, Semester 2

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

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

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

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

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

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

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

NQB602	Environmental Chemistry
NQB612	Basin Analysis and Petroleum Geology
	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

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 1

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

PQB250	Mechanics and Electromagnetism
	Science Elective unit
	TWO Mathematics units

Year 2, Semester 2

PQB251	Waves and Optics
	Science Elective unit
	TWO Mathematics units

Year 2, Semester 1

SCB112	Cellular Basis of Life
	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
MAB481	Visualisation and Data Analysis

Level 3	
	You must complete at least four units from:
MAB521	Applied Mathematics 3
MAB522	Computational Mathematics 3
MAB524	Statistical Inference
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB536	Time Series Analysis
MAB613	Partial Differential Equations
MAB623	Financial Mathematics
MAB624	Applied Statistics 3
MAB625	Operations Research 3B
MAB640	Industry Project
MAB672	Advanced Mathematical Modelling
MAB681	Advanced Visualisation and Data Analysis

Science Elective Units

The number of elective units will depend upon the major selected. These elective units can be selected from Faculty of Science and Technology units - make sure you meet any prerequisites and don't take an incompatible unit. Some majors include alternative units and you could select an additional unit(s) from these.

Information on some possible Science elective units.	
NQB201	Planet Earth
NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
SCB131	Experimental Chemistry
SCB222	Exploration of the Universe
NOTE:	Other elective units may be found in the co-majors listed in the SC01 Course Summary Sheet.

Level 2 or 3 Elective Unit Suggestions for Physics Major	
PQB360	Global Energy Balance and Climate Change
PQB460	Astrophysics 1
PQB660	Astrophysics 2

Potential Careers:

Actuary, Analytical Chemist, Astrophysicist, Biochemist, Bioinformatician, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Database Manager, Ecologist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist, Laboratory Technician (Chemistry), Marine Scientist, Mathematician, Medical Biotechnologist, Medical Physicist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Physicist, Plant Biotechnologist, Population Ecologist, Programmer, Quantitative Analyst, Statistician, Virologist.

Bachelor of Biomedical Science (SC40)

Year offered: 2010
Admissions: Yes
CRICOS code: 052768K
Course duration (full-time): 3 Years
Course duration (part-time): 6 Years
Domestic fees (indicative): 2010: CSP $2,200 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 418401
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.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 288
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24
Course coordinator: Dr Catherine Dallemagne
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.

Recommended Study

Biological Science.

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 form 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, the entrance examination for postgraduate medicine. 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 of 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.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Further Information

For further information about the course, please contact:

Course Coordinator

Dr Catherine Dallemagne
Phone: +61 7 3138 2561
Email: c.dallemagne@qut.edu.au

Course structure - Full-time

Year 1, Semester 1

MAB141	Mathematics and Statistics for Medical Science
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE elective to be chosen from the following list:
KWB101	Introduction to Creative Writing
PYB007	Interpersonal Processes and Skills
	Or another elective to be approved by the course coordinator

Year 1, Semester 2

LSB255	Human Anatomy
PCB150	Physics 1H
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1

LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function
LQB388	Medical Physiology 1
LSB325	Biochemistry

Year 2, Semester 2

LQB483	Molecular Biology Techniques
LQB486	Clinical Microbiology 1
LSB425	Quantitative Medical Science
SWB105	Introduction to Human Rights and Ethics

Year 3, Semester 1

LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB586	Clinical Microbiology 2
LSB525	Clinical Biochemistry 1

Year 3, Semester 2

LQB488	Medical Physiology 2
LQB684	Medical Biotechnology
LSB625	Clinical Biochemistry 2
LSB658	Clinical Physiology

NOTE:

Students may substitute ONE unit from EACH of Year 3/Semesters 1 and 2 (or Year 2/Semester 2) with an approved pair of electives from one stream only from the following list, providing that a MATCHING SET of science units is deleted: (eg [a] LQB583 and LQB684 OR [b] LSB525 and LSB625 OR [c] LQB486 and LQB586). The elective options are subject to timetabling and campus offerings.

HEALTH COUNSELLING

Semester 1:

PYB012	Psychology

Semester 2:

PYB208	Counselling Theory and Practice 1

PUBLIC HEALTH

Semester 1:

PUB104	Australian Health Care Systems
	or
PUB326	Epidemiology

Semester 2:

PUB251	Contemporary Public Health
	or
PUB436	Evidence Based Practice

EXERCISE SCIENCE FOR PREVENTIVE MEDICINE

Semester 1:

HMB271	Foundations of Motor Control, Learning and Development

Semester 2:

HMB273	Exercise Physiology 1

INDIGENOUS PERSPECTIVES

Semester 1:

EDB038	Indigenous Australian Culture Studies

Semester 2:

EDB040	Indigenous Knowledge: Research Ethics and Protocols

HEALTH AND SCIENCES

Semester 1:

PUB326	Epidemiology
	Or
LQB588	Applied Medical Physiology

Semester 2:

LQB686	Microbial Technology and Immunology
	Or
LSB384	Pharmacology For Health Professionals

Course structure - Part-time

Year 1, Semester 1

MAB141	Mathematics and Statistics for Medical Science
SCB112	Cellular Basis of Life

Year 1, Semester 2

LSB255	Human Anatomy
SCB122	Cell and Molecular Biology

Year 2, Semester 1

SCB111	Chemistry 1
	Plus ONE elective to be chosen from the following list:
KWB101	Introduction to Creative Writing
PYB007	Interpersonal Processes and Skills
	Or another elective to be approved by the course coordinator

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). 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: 2010
Admissions: Yes
CRICOS code: 055902G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,470 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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: 94 Not all applicants with this rank were offered this course
Past OP cut-off: 4 Not all applicants within the OP 4 Band were offered this course
Assumed knowledge: English (4, SA), Maths B (4, SA) and Chemistry (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Fraser Ross
Campus: Gardens Point

Recommended Study

Biological Science is recommended.

Career Opportunities

Pharmacists are employed in a range of settings including community pharmacies, hospitals, industry, regulatory and research roles. Australia is currently experiencing a shortage of trained pharmacists, particularly in hospital and community pharmacies. You can expect your skills to be in demand as the QUT Bachelor of Pharmacy focuses on these aspects of the pharmacy profession. You will also be well prepared to undertake postgraduate studies in pharmacy related areas.

As the first professional contacted for advice about health, community pharmacists frequently play a major role as health educators. Hospital pharmacists may work closely with doctors in a patient-care role, evaluate newly released medicines, coordinate clinical trials, or prepare medicines for patients requiring specialised treatments.

OP Guarantee

The OP Guarantee does not apply to this course.

Course Design

The Bachelor of Pharmacy comprises four years of study in areas ranging from pharmacy practice, pharmaceutics, pharmacology, drug metabolism, physiology and chemistry. You will also undertake professional practice units in QUT's on-campus dispensary and counselling facilities before embarking on a series of professional placements in hospitals and community pharmacy environments.

Special Course Requirements

1. **Hepatitis B Vaccination:** Prior to undertaking hospital placements students must be vaccinated for hepatitis B and must provide a post-vaccination pathological report or similar certification showing proof of immunity.

2. **Blue Card**: A current Blue Card authorised with QUT may be required prior to commencing the clinical placement components in this course. Please read the Blue Card information (http://bluecard.qut.com) and ensure that you allow adequate time for processing your application and issuing of the card in order to avoid clinical experience delays.

Professional Recognition

Following graduation, approximately 12 months of pre-registration training performed under the supervision of a registered pharmacist is required to meet the registration requirements of the Pharmacists Board of Queensland. Graduates will be eligible for membership of a number of professional associations, including the Pharmaceutical Society of Australia (PSA), the Pharmacy Guild and the Society of Hospital Pharmacists of Australia (SHPA).

Why Choose this Course?

This course has been developed with significant input from pharmacists to incorporate latest practices and emerging trends. The inclusion of essential small business management skills will help you to operate effectively in your chosen setting.

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Further Information

For further information about this course, please contact

Course Coordinator

Associate Professor Fraser Ross
Phone: +61 7 3138 2502
Email: fb.ross@qut.edu.au

Course structure

Year 1, Semester 1	
MAB141	Mathematics and Statistics for Medical Science
PYB007	Interpersonal Processes and Skills
SCB112	Cellular Basis of Life
SCB113	Chemistry for Health and Medical Science

Year 1, Semester 2	
LSB255	Human Anatomy
SCB122	Cell and Molecular Biology
SCB131	Experimental Chemistry
SCB208	Introduction to Pharmacy Practice

Year 2, Semester 1	
LQB388	Medical Physiology 1
LSB325	Biochemistry
SCB308	Pharmacy Practice 1
SCB338	Pharmaceutical Chemistry and Pharmacology 1

Year 2, Semester 2	
LQB488	Medical Physiology 2
SCB408	Pharmacy Practice 2
SCB428	Pharmacokinetics
SCB438	Medicinal Chemistry and Pharmacology 2

Year 3, Semester 1	
LQB386	Microbial Structure and Function
SCB508	Pharmacy Practice 3
SCB528	Pharmaceutics 1
SCB538	Pharmacology 3

Year 3, Semester 2	
SCB608	Pharmacy Practice 4
SCB628	Pharmaceutics 2
SCB638	Pharmacogenomics and Drug Metabolism
SCB648	Pharmacotherapeutics 1
NOTES:	- Progression to Year 4 cannot occur before the successful completion of Years 1, 2 and 3.
	- Year 4 requires enrolment in all four (4) units each semester.

Year 4, Semester 1	
SCB708	Pharmacy Practice 5
SCB748	Pharmacotherapeutics 2
SCB758	Pharmacy Management 1
SCB768	Professional Placements 1

Year 4, Semester 2	
SCB808	Pharmacy Practice 6
SCB848	Pharmacotherapeutics 3
SCB858	Pharmacy Management 2
SCB868	Professional Placements 2

Potential Careers:

Community Pharmacist, Hospital Pharmacist, Pharmaceutical Research Scientist.

Bachelor of Applied Science (Honours) (SC60)

Year offered: 2010
Admissions: Yes
CRICOS code: 009041G
Course duration (full-time): 1 Year
Course duration (part-time): 2 Years
Domestic fees (indicative): 2010: CSP $2,150 (indicative) per semester
International Fees (indicative): 2010: $12,000 (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
Course coordinator: Associate Professor Peter Mather
Discipline coordinator: Dr John Bartley (Chemistry Major); Dr David Hurwood (Ecology Major); Associate Professor Peter Mather (Environmental Science Major); Dr Gregg Webb (Geology Major); Associate Professor Terry Walsh (Life Science Major); Dr Troy Farrell (Mathematics Major); Dr Esa Jaatinen (Physics Major)
Campus: Gardens Point

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.

Entry Requirements

To be eligible for admission, you should have completed QUT's Bachelor of Applied Science or equivalent and should have attained a grade point average (GPA) of at least 5 (on a 7-point scale), including grades of at least 5 in all units directly relevant to the proposed Honours program. Application for admission should normally be made at the end of the pass degree, or within 18 months of completing that degree.

If you do not satisfy the above conditions but who have demonstrated outstanding performance in only the final year of a degree, or your application is based on other factors including work experience or involvement in research, you may be admitted at the discretion of the Executive Dean of Faculty.

Please note that for the Mathematics major, other degrees with major studies in Mathematics (including Statistics) may provide suitable entry to the program.

Course Structure

The Honours year comprises coursework and a major research project supervised by QUT staff, in some cases in conjunction with local industry. Majors are offered in Chemistry, Ecology, Environmental Science, Geology, Life Science, Mathematics and Physics.

Professional Recognition

Relevant scientific professional bodies include Australasian Association of Clinical Biochemists, Australasian Institute of Mining and Metallurgy, AusBiotech Ltd, Australian Institute of Geoscientists, Australian Institute of Physics, Australian Mathematical Society, Australian Society for Biochemistry and Molecular Biology, Australian Society for Medical Research, Australian Society for Microbiology, Australian Society for Operations Research, Ecological Society of Australia, Geological Society of Australia, Royal Australian Chemical Institute, and Statistical Society of Australia. Eligibility for membership is based on the combination of units undertaken in the degree and the Bachelor of Applied Science course that underpins it.

Further Information

Course Coordinator
Associate Professor Peter Mather
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Discipline Coordinators

Chemistry
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Ecology
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Environmental Science
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Geology
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Mathematics
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Email: t.farrell@qut.edu.au

Physics
Dr Esa Jaatinen
Phone: +61 7 3138 4281
Email: e.jaatinen@qut.edu.au

Course structure - Major in Chemistry

Year 1, Semester 1	
PCB700-1	Research Project
PCB700-2	Research Project
PCB742	Elective Unit
PCB780-1	Advanced Topics in Chemistry 1

Year 1, Semester 2	
PCB700-3	Research Project
PCB700-4	Research Project
PCB700-5	Research Project
PCB780-2	Advanced Topics in Chemistry 1
NOTE:	Students wishing to apply for entry to BAppSc(Hons) should consult with the contact person for the relevant science discipline before applying (see contact details link above).

Course structure - Major in Ecology, Environmental Science, Geology

Year 1, Semester 1	
NRB720-1	Project
NRB730-1	Research Methods and Strategies
NRB730-2	Research Methods and Strategies
NRB735	Advanced Studies in Resource Sciences

Year 1, Semester 2	
NRB720-2	Project
NRB720-3	Project
NRB720-4	Project
NRB720-5	Project
NOTE:	Students wishing to apply for entry into BAppSc(Hons) should consult with the contact person for the relevant science discipline before applying (see contact details link above).

Course structure - Major in Life Science

Year 1, Semester 1	
LSB850-1	Research Strategies
LSB851-1	Readings in Life Science 1
LSB852-1	Project

Year 1, Semester 2	
LSB850-2	Research Strategies
LSB851-2	Readings in Life Science 1
LSB852-2	Project
NOTE:	Students wishing to apply for entry into BAppSc(Hons) should consult with the contact person for the relevant science discipline before applying (see contact details link above).

Course structure - Major in Mathematics

Year 1, Semester 1	
MAN787-1	Project
	36 credit points of elective units selected from the list below*

Year 1, Semester 2	
MAN787-2	Project
MAN787-3	Project
	24 credit points of elective units selected from the list below*

Elective List (Mathematics) - 60 credit points to be selected	
MAN717	Minor Project
MAN761	Analysis
MAN764	Applied Mathematical Modelling
MAN765	Bayesian Data Analysis
MAN766	Applied Time Series Analysis
MAN768	Advanced Techniques in Operations Research
MAN769	Mathematics of Finance
MAN771	Computational Mathematics 4
MAN774	Perturbation Methods
MAN775	Statistical Modelling of Financial Processes
MAN777	Mathematics of Fluid Flow
MAN778	Applications of Discrete Mathematics
	Up to 12 credit points from the following lists can be included in the 60 credit points of electives:
MAB522	Computational Mathematics 3
MAB524	Statistical Inference
MAB613	Partial Differential Equations
MAB672	Advanced Mathematical Modelling
MAN536	Time Series Analysis
	Up to two units of a quantitative nature from another Faculty or School may be included with the permission of the Mathematics Coordinator. The unit(s) must be of honours level and relevant to the proposed program. Examples of suitable units are:
EFN505	Financial Risk Management
PCB706	Quantum Mechanics
*	The Course Coordinator may approve a student taking 24 credit points of elective units (together with MAN787-1 and MAN787-2) in Semester 1 and 36 credit points of elective units (together with MAN787-3) in Semester 2.
NOTE:	Students wishing to apply for entry to BAppSc(Hons) should consult with the contact person for the relevant science discipline before applying (see contact details link above).

Course structure - Major in Physics

Year 1, Semester 1	
PCB700-1	Research Project
PCB700-2	Research Project
PCB706	Quantum Mechanics
	Elective
NOTE:	An alternative to PCB706 Quantum Mechanics may be permitted

Year 1, Semester 2	
PCB700-3	Research Project
PCB700-4	Research Project
PCB700-5	Research Project
	Elective
NOTE:	Students wishing to apply for entry into BAppSc(Hons) should consult with the contact person for the relevant science discipline before applying (see contact details link above).

Elective List (Physics)	
PCB708	Advanced Topics in Physics
PCN716	Advanced Topics in Physics 2
PQB660	Astrophysics 2
PQB661	Lasers and Photonics
NOTE:	PCB708 and PCN716 typically comprise two components chosen from atmospheric aerosol physics, classical mechanics, non-linear optics, quantum electrodynamics, advanced general relativity or aspects of units from the Masters in Medical Physics course.

Potential Careers:

Actuary, Analytical Chemist, Astrophysicist, Biochemist, Biologist, Biotechnologist, Chemist, Chemist Industrial, Coastal Scientist, Conservation Biologist, Database Manager, Ecologist, Environmental Scientist, Forensic Scientist, Geologist, Geophysicist, Geoscientist, Health Physicist, Hydrogeologist, Immunologist, Industrial Chemist, Laboratory Technician (Chemistry), Marine Scientist, Mathematician, Medical Biotechnologist, Medical Physicist, Microbiologist, Molecular Biologist, Natural Resource Scientist, Physicist, Plant Biotechnologist, Population Ecologist, Programmer, Quantitative Analyst, Statistician, Virologist.

Graduate Diploma in Applied Science (SC71)

Year offered: 2010
Admissions: Yes
CRICOS code: 020314E
Course duration (full-time): 2 semesters (1 year)
Course duration (part-time): 4 semesters (2 years)
Domestic fees (indicative): 2010: CSP $2,320 (indicative) per semester
International Fees (indicative): 2010: $11,250 (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 Peter Mather
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

Entry requirements

Applicants must possess a bachelor degree in applied science or equivalent qualification, or other evidence of qualifications that satisfy the Faculty Academic Board that the applicant possesses the capacity to pursue the course of study.

Overview

This course offers students a one-year postgraduate qualification by coursework, or coursework and a minor research project. The course will particularly suit if students are employed in the industry and wish to undertake postgraduate study to upgrade their professional qualification in one of the science disciplines.

Course Design

This coursework program allows students to complete a minor project in some disciplines. The assessed coursework may include advanced lecture courses, seminars, reading courses 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.

Candidates of the Graduate Diploma in Applied Science undertake a program of coursework, or coursework and a minor research project, as approved by the Academic Board on the advice of the Head of School.

Students must complete a total of 96 credit points which may consist of between 60 and 96 credit points of coursework, and up to 36 credit points as a minor research project.

Coursework units will be selected from the specific units available within the Master of Applied Science (SC80) course and may contain units selected from other postgraduate courses or advanced undergraduate courses where the background of the student requires this.

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: 2010
Admissions: Yes
CRICOS code: 007897G
Course duration (full-time): 3 semesters (1.5 years)
Course duration (part-time): 6 semesters (3 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 - 2010: $11,750 per semester (indicative)
International Fees (indicative): 2010: $11,750 (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: Dr Geoffrey Will (Chemistry); Associate Professor Terry Walsh (Life Sciences); Professor Vo Anh (Mathematics); Associate Professor Peter Mather (Natural Resource Sciences); Dr Andrew Fielding (Physics)
Campus: Gardens Point

Entry Requirement

Applicants must possess a bachelor of applied science or equivalent qualification or other evidence of qualifications that satisfy the Faculty Academic Board that the applicant possesses the capacity to pursue the course of study.

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 its equivalent to candidates with 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 Strand

PCN701	Topics in Advanced Chemistry 1
PCN705-1	Research Methodology
PCN705-2	Research Methodology
	Select one of the following Elective Units:
PCN710	Chemical Instrumentation
PCN720	Chemometrics
PCN730	Advanced Physical Methods in Chemistry

PCN740	Laboratory Techniques for Preparative Chemistry
PCN801	Topics in Advanced Chemistry 2

Course structure - Ecology, Environmental Science & Geoscience Strands

	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 - 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

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 - Physics Strand

PCN715	Advanced Topics in Physics 1
PCN716	Advanced Topics in Physics 2
	and/or alternative unit(s) approved by the Physics coordinator

Research Work

The Research Work component of the degree must constitute at least 128 credit points. The units below have been devised to represent the EFTSU (Effective Full-time Student Unit) and attendance type of graduate research students.

Full-Time Students

The minimum number of credit points per semester for full-time status is 36. The standard number is 48. At the end of each semester a grade of T - Assessment Continues will be awarded in any IFNXXX units provided satisfactory progress is being maintained. A final grade (S - Satisfactory or U - Unsatisfactory) will be awarded once the thesis has been examined according to the degree rules.

Full-Time Course Structure

Full-time students undertaking research but no coursework units enrol in

IFN100	Full-Time Masters Research

Full-time students who are required to undertake coursework units in addition to their research as part of their masters enrolment should enrol in a combination of the following units. These should total (in combination with the coursework unit/s) as close as possible to 48 credit points per semester.

IFN300	Masters Research
IFN301	Masters Research
IFN302	Masters Research
IFN303	Masters Research
IFN304	Masters Research

Part-Time Students

The maximum number of credit points per semester for part-time status is 36. The standard number is 24. At the end of each semester a grade of T - Assessment Continues will be awarded in any IFNXXX units provided satisfactory progress is being maintained. A final grade (S - Satisfactory or U - Unsatisfactory) will be awarded once the thesis has been examined according to degree rules.

Part-time Course Structure

Part-time students undertaking research but no coursework units enrol in:

IFN200	Part-Time Masters Research

Part-time students who are required to undertake coursework units in addition to their research as part of their masters enrolment should enrol in a combination of the following units. These should total (in combination with the coursework unit/s) as close as possible to 24 credit points:

IFN302	Masters Research
IFN303	Masters Research
IFN304	Masters Research

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 Technology Innovation (ST50)

Year offered: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Past rank cut-off: 12
Past OP cut-off: 77
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 about training the next generation of techno-entrepreneurs to translate research outcomes in science and technology into business opportunities. The four year coursework Honours degree focuses on the business of innovation and 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 in the international market.

The Bachelor of Technology Innovation covers the innovation contexts of science and information technology. Specific disciplines covered include biochemistry, biomedical science, biotechnology, chemistry, digital media, ecology, environmental science, forensic science, games technology, geoscience, information technology, microbiology and 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.

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 novelty 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.

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.

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

Bachelor of Technology Innovation (Biochemistry) (ST50)

Year offered: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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 ndustry.

Career Outcomes

Graduates can build careers in the world of commercialisation and technology transfer of research innovation and complex emerging technologies pertaining to their specific discipline and beyond. Graduates could pursue careers in all aspects of the new product development continuum including business development officers, venture capital associates, investment analysts, commercialisation managers, technology transfer officers, intellectual property analysts, policy development officers and, of course, research scientists.

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).

Biochemistry Major Course Structure

Year 1, Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE of the following units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations

NOTE:

1. Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105.
2. Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101.
3. Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121.
4. Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120.

Year 1, Semester 2	
SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 2, Semester 1	
LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation
	Plus TWO unit from the relevant options List which may include one unit from outside of the Faculty *

Year 2, Semester 2	
LQB481	Biochemical Pathways and Metabolism
LQB483	Molecular Biology Techniques
	Plus TWO units from the relevant options List which may include one unit from outside of the Faculty#

Year 3, Semester 1	
BSB115	Management
LQB581	Functional Biochemistry
LQB582	Biomedical Research Technologies
STB551	Engaging with the Innovation Industry

Year 3, Semester 2	
BSB126	Marketing
LQB681	Biochemical Research Skills
LQB682	Protein Biochemistry and Bioengineering
MGB223	Entrepreneurship and Innovation

Year 4, Semester 1	
AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4, Semester 2	
BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills

STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

* Recommended Year 2 Semester 1 Units	
LQB386	Microbial Structure and Function
LQB388	Medical Physiology 1

# Recommended Year 2 Semester 2 Units	
	Any TWO units listed below provided prerequisites are met:
LQB484	Introduction to Genomics and Bioinformatics
LQB486	Clinical Microbiology 1
LQB488	Medical Physiology 2
LQB489	Plant Physiology and Cell Biology

Bachelor of Technology Innovation (Biomedical Science) (ST50)

Year offered: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Standard credit points per full-time semester: 96
Course coordinator: Associate Professor Chris Collet
Campus: Gardens Point

Overview

Biomedical science is the study of the medical and clinicallyoriented biological sciences.

Career Outcomes

Graduates can build careers in the world of commercialisation and technology transfer of research innovation and complex emerging technologies pertaining to their specific discipline and beyond. Graduates could pursue careers in all aspects of the new product development continuum including business development officers, venture capital associates, investment analysts, commercialisation managers, technology transfer officers, intellectual property analysts, policy development officers and, of course, research scientists.

Biomedical Science Major Course Structure

Year 1, Semester 1	
MAB141	Mathematics and Statistics for Medical Science
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life

Year 1, Semester 2	
LSB255	Human Anatomy
PCB150	Physics 1H
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology

Year 2, Semester 1	
LQB383	Molecular and Cellular Regulation
LQB386	Microbial Structure and Function
LQB388	Medical Physiology 1
LSB325	Biochemistry

Year 2, Semester 2	
LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
LQB486	Clinical Microbiology 1
LSB425	Quantitative Medical Science

Year 3, Semester 1	
BSB115	Management
STB551	Engaging with the Innovation Industry
	Plus any TWO of the following five units
LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB586	Clinical Microbiology 2
LSB525	Clinical Biochemistry 1
	One University Wide Unit elective

Year 3, Semester 2	
BSB126	Marketing
MGB223	Entrepreneurship and Innovation
	Plus any TWO units of the following five units provided the prerequisites are met:
LQB488	Medical Physiology 2
LQB684	Medical Biotechnology
LSB625	Clinical Biochemistry 2
LSB658	Clinical Physiology
	One University Wide Unit elective

Year 4, Semester 1	
AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4, Semester 2	
BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Biotechnology) (ST50)

Year offered: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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 or products and processes for the benefit of society.

Career Outcomes

Graduates can build careers in the world of commercialisation and technology transfer of research innovation and complex emerging technologies pertaining to their specific discipline and beyond. Graduates could pursue careers in all aspects of the new product development continuum including business development officers, venture capital associates, investment analysts, commercialisation managers, technology transfer officers, intellectual property analysts, policy development officers and, of course, research scientists.

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).

Biotechnology Major Course Structure

Year 1 Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE of the following units
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
	NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101
	Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105
	Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121
	Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2	
SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 2 Semester 1	
LQB381	Biochemistry: Structure and Function
LQB383	Molecular and Cellular Regulation
	Plus TWO units from the relevant options List which may inlcude one unit from outside the Faculty
	Relevant Options List for Year 2, Semester 1
LQB386	Microbial Structure and Function
LQB388	Medical Physiology 1

Year 2 Semester 2	
LQB483	Molecular Biology Techniques
LQB484	Introduction to Genomics and Bioinformatics
	Plus TWO units from the relevant options List which may inlcude one unit from outside the Faculty
	Relevant Options List for Year 2, Semester 2
LQB481	Biochemical Pathways and Metabolism
LQB486	Clinical Microbiology 1
LQB488	Medical Physiology 2
LQB489	Plant Physiology and Cell Biology

Year 3 Semester 1	
BSB115	Management
STB551	Engaging with the Innovation Industry
	Plus any TWO of the three units below provided prerequisites are met
LQB583	Genetic Research Technology
LQB584	Medical Cell Biology
LQB585	Plant Genetic Manipulation

Year 3 Semester 2	
BSB126	Marketing
MGB223	Entrepreneurship and Innovation
	Plus any TWO of the three units below

	provided prerequisites are met
LQB682	Protein Biochemistry and Bioengineering
LQB684	Medical Biotechnology
LQB685	Plant Microbe Interactions

Year 4 Semester 1	
AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2	
BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Chemistry) (ST50)

Year offered: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

Career Outcomes

Graduates can build careers in the world of commercialisation and technology transfer of research innovation and complex emerging technologies pertaining to their specific discipline and beyond. Graduates could pursue careers in all aspects of the new product development continuum including business development officers, venture capital associates, investment analysts, commercialisation managers, technology transfer officers, intellectual property analysts, policy development officers and, of course, research scientists.

Chemistry Major Course Structure

Year 1 Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE of the following units
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
	NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101
	Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105
	Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121
	Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2	
SCB121	Chemistry 2
SCB123	Physical Science Applications
SCB131	Experimental Chemistry
	Plus ONE of the following two units
MAB120	Algebra and Calculus
SCB122	Cell and Molecular Biology

Year 2 Semester 1	
PQB312	Analytical Chemistry For Scientists and Technologists
PQB331	Structure and Bonding
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List for Year 2, Semester 1
MAB120	Algebra and Calculus
PQB313	Analytical Chemistry For Industry
	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

Year 3 Semester 1	
BSB115	Management
PQB502	Advanced Physical Chemistry
PQB531	Organic Mechanisms and Synthesis
STB551	Engaging with the Innovation Industry

Year 3 Semester 2	
BSB126	Marketing
MGB223	Entrepreneurship and Innovation
PQB631	Advanced Inorganic Chemistry
PQB642	Chemical Research

Year 4 Semester 1	
AMB240	Marketing Planning and Management

LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Digital Media) (ST50)

Year offered: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

Career Outcomes

Graduates can build companies creating their own products and take these to the global market. Or graduates could chart their careers in the world of commercialisation and technology transfer of research innovation in the digital media. Graduates could pursue careers in all aspects of the new product development continuum including company owners and directors, business development officers, venture capital associates, investment analysts, commercialisation managers, technology transfer officers, intellectual property analysts, policy development officers and, of course, researchers.

Professional Recognition

No professional accreditation is currently available for courses in the games and entertainment area.

Digital Media Major Course Structure

Year 1 Semester 1	
INB101	Impact of IT
INB104	Building IT Systems
INB180	Computer Games Studies
INB182	Introducing Design

Year 1 Semester 2	
INB103	Industry Insights
INB181	Introduction to Games Production
	Plus TWO Block C Units

Year 2 Semester 1	
INB385	Multimedia Systems
KIB101	Visual Communication
KIB230	Interface and Information Design
	Plus ONE Block C Unit

Year 2 Semester 2	
INB386	Advanced Multimedia Systems
KIB102	Visual Interactions
	Plus TWO Block C Units

Year 3 Semester 1	
BSB115	Management
INB345	Mobile Devices
KIB309	Embodied Interactions
STB551	Engaging with the Innovation Industry

Year 3 Semester 2	
BSB126	Marketing
KIB314	Tangible Media
MGB223	Entrepreneurship and Innovation
	Plus ONE Block C Unit

Year 4 Semester 1	
AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2	
BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Block C Minor List	
	ANIMATION:
KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KVB105	Drawing for Design
KVB106	Drawing for Animation
	GAME DESIGN:
KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB280	Fundamentals of Game Design
	Plus ONE of the following two units

INB281	Advanced Game Design
INB272	Interaction Design

MATHEMATICS FOR GAMES:

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

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

MOBILE AND NETWORK TECHNOLOGIES:

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

SOUND DESIGN:

KMB107	Sound, Image, Text
KMB119	Music and Sound Production 1
KMB129	Music and Sound Production 2
KMB252	Multiplatform Sound Design

SOFTWARE TECHNOLOGIES:

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

PHYSICS FOR GAMES:

MAB120	Algebra and Calculus
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics

Plus ONE of the following three units

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

Bachelor of Technology Innovation (Ecology) (ST50)

Year offered: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

Career Outcomes

Graduates can build careers in the world of commercialisation and technology transfer of research innovation and complex emerging technologies pertaining to their specific discipline and beyond. Graduates could pursue careers in all aspects of the new product development continuum including business development officers, venture capital associates, investment analysts, commercialisation managers, technology transfer officers, intellectual property analysts, policy development officers and, of course, research scientists.

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.

Ecology Major Course Structure

Year 1, Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE of the following four units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB121	Calculus and Differential Equations
MAB120	Algebra and Calculus
	NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101
	Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105
	Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121
	Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1, Semester 2	
NQB201	Planet Earth
NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology
	Plus ONE of the following three units:
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 2, Semester 1	
NQB321	Ecology
	Plus ONE of the following three units
NQB302	Earth Surface Systems
NQB322	Invertebrate Biology
NQB323	Plant Biology
	Plus TWO units from the relevant options List which may include one unit from outside of the Faculty
	Relevant Options List for Year 2 Semester 1
NQB322	Invertebrate Biology
NQB323	Plant Biology

Year 2, Semester 2	
NQB421	Experimental Design
NQB422	Genetics and Evolution
	Plus TWO units from the relevant options List which may include one unit from outside of the Faculty
	Relevant Options List for Year 2 Semester 2
NQB422	Genetics and Evolution
NQB423	Vertebrate Biology

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: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

Career Outcomes

Graduates can build careers in the world of commercialisation and technology transfer of research innovation and complex emerging technologies pertaining to their specific discipline and beyond. Graduates could pursue careers in all aspects of the new product development continuum including business development officers, venture capital associates, investment analysts, commercialisation managers, technology transfer officers, intellectual property analysts, policy development officers and, of course, research scientists.

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).

Environmental Science Major Course Structure

Year 1 Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE of the following four units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
	NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101
	Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105
	Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121
	Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2	
NQB202	History of Life on Earth
SCB120	Plant and Animal Physiology
SCB123	Physical Science Applications
	Plus ONE of the following two units:
NQB201	Planet Earth
SCB121	Chemistry 2

Year 2 Semester 1	
NQB302	Earth Surface Systems
NQB321	Ecology
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List for Year 2 Semester 1
NQB322	Invertebrate Biology
NQB323	Plant Biology

Year 2 Semester 2	
NQB403	Soils and the Environment
NQB421	Experimental Design
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List for Year 2 Semester 2
NQB422	Genetics and Evolution
NQB423	Vertebrate Biology

Year 3 Semester 1	
BSB115	Management
NQB501	Environmental Modelling
STB551	Engaging with the Innovation Industry
	Plus ONE of the two following units:
NQB502	Field Methods in Natural Resource Sciences
NQB503	Spatial Analysis of Environmental Systems

Year 3 Semester 2	
BSB126	Marketing
MGB223	Entrepreneurship and Innovation

NQB601	Sustainable Environmental Management
	Plus ONE of the three following units:
NQB602	Environmental Chemistry
NQB614	Groundwater Systems
NQB623	Ecological Systems

Year 4 Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Forensic Science) (ST50)

Year offered: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

Career Outcomes

Graduates can build careers in the world of commercialisation and technology transfer of research innovation and complex emerging technologies pertaining to their specific discipline and beyond. Graduates could pursue careers in all aspects of the new product development continuum including business development officers, venture capital associates, investment analysts, commercialisation managers, technology transfer officers, intellectual property analysts, policy development officers and, of course, research scientists.

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).

Forensic Science Major Course structure

Year 1, Semester 1

SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE from the following four units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
	NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101
	Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105
	Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121
	Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1, Semester 2

SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications
SCB131	Experimental Chemistry

Year 2, Semester 1

LQB383	Molecular and Cellular Regulation
SCB384	Forensic Sciences - From Crime Scene to Court
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List Year 2 Semester 1
PQB331	Structure and Bonding

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

Year 3, Semester 1

BSB115	Management
PQB513	Instrumental Analysis
PQB584	Forensic Physical Evidence
STB551	Engaging with the Innovation Industry

Year 3, Semester 2

BSB126	Marketing
MGB223	Entrepreneurship and Innovation

LQB680	Forensic DNA Profiling
PQB684	Forensic Analysis

Year 4, Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4, Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Games Technology) (ST50)

Year offered: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

Career Outcomes

Graduates can build companies creating their own products and take these to the global market. Or graduates could chart their careers in the world of commercialisation and technology transfer of research nnovation in the arena of games technology and development. Graduates could pursue careers in all aspects of the new product development continuum including company owners and directors, business development officers, venture capital associates, investment analysts, commercialisation managers, technology transfer officers, intellectual property analysts, policy development officers and, of course, researchers.

Professional Recognition

No professional accreditation is currently available for courses in the games and entertainment area.

Games Technology Major Course Structure

Year 1 Semester 1	
INB101	Impact of IT
INB104	Building IT Systems
INB180	Computer Games Studies
INB182	Introducing Design

Year 1 Semester 2	
INB103	Industry Insights
INB181	Introduction to Games Production
INB270	Programming
MAB281	Mathematics for Computer Graphics

Year 2 Semester 1	
INB370	Software Development
INB371	Data Structures and Algorithms
	Plus TWO Block C Units

Year 2 Semester 2	
INB210	Databases
INB250	Systems Architecture
INB381	Modelling and Animation Techniques
	Plus ONE Block C Unit

Year 3 Semester 1	
BSB115	Management
STB551	Engaging with the Innovation Industry
	Plus ONE of the following two units:
INB382	Real Time Rendering Techniques
INB383	AI for Games
	Plus ONE Block C Unit

Year 3 Semester 2	
BSB126	Marketing
MGB223	Entrepreneurship and Innovation
	Plus TWO Block C Units

Year 4 Semester 1	
AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2	
BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Block C Minor Units List	
	ANIMATION:
KIB105	Animation and Motion Graphics
KIB108	Animation History and Practices
KVB105	Drawing for Design
KVB106	Drawing for Animation
	ADVANCED SOFTWARE TECHNOLOGIES:
INB365	Systems Programming
INB372	Agile Software Development
INB374	Enterprise Software Architecture
	Plus ONE from the following two units:

INB382	Real Time Rendering Techniques
INB383	AI for Games

DIGITAL MEDIA:

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

GAME DESIGN:

KIB201	Concept Development for Game Design and Interactive Media
KIB202	Enabling Immersion
INB280	Fundamentals of Game Design
	Plus ONE from the following two units:
INB272	Interaction Design
INB281	Advanced Game Design

MATHEMATICS FOR GAMES:

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

MOBILE AND NETWORK TECHNOLOGIES:

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

SOUND DESIGN:

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

PHYSICS FOR GAMES:

MAB120	Algebra and Calculus
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
	Plus ONE from the following three units:
PQB450	Energy, Fields and Radiation
PQB460	Astrophysics 1
PCB593	Digital Image Processing

Bachelor of Technology Innovation (Geoscience) (ST50)

Year offered: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

Career Outcomes

Graduates can build careers in the world of commercialisation and technology transfer of research innovation and complex emerging technologies pertaining to their specific discipline and beyond. Graduates could pursue careers in all aspects of the new product development continuum including business development officers, venture capital associates, investment analysts, commercialisation managers, technology transfer officers, intellectual property analysts, policy development officers and, of course, research scientists.

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).

Geoscience Major Course Structure

Year 1 Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE of the following four units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
	NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101
	Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105
	Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121
	Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2	
NQB201	Planet Earth
NQB202	History of Life on Earth
SCB123	Physical Science Applications
SCB222	Exploration of the Universe

Year 2 Semester 1	
NQB311	Mineralogy
NQB314	Sedimentary Geology
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List for Year 2 Semester 1
NQB302	Earth Surface Systems
UBD281	Geographic Information Systems

Year 2 Semester 2	
NQB411	Petrology of Igneous and Metamorphic Rocks
NQB412	Structural Geology and Field Methods
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List for Year 2 Semester 2
NQB403	Soils and the Environment
NQB413	Stratigraphy

Year 3 Semester 1	
BSB115	Management
NQB502	Field Methods in Natural Resource Sciences
NQB513	Geophysics
STB551	Engaging with the Innovation Industry

Year 3 Semester 2	
BSB126	Marketing
MGB223	Entrepreneurship and Innovation
NQB615	Geochemistry
	Plus ONE from the following three units:
NQB612	Basin Analysis and Petroleum Geology

NQB613	Plate Tectonics
NQB614	Groundwater Systems

Year 4 Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Information Technology) (ST50)

Year offered: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

Career Outcomes

Graduates can build companies around their own product ideas and take these to the global market. Or graduates could chart their careers in the world of commercialisation and technology transfer of IT research innovation. Potential careers include all aspects of the product development continuum including company owners and directors, business development officers, venture capital associates, investment analysts, commercialisation managers, technology transfer officers, intellectual property analysts, policy development officers and, of course, researchers.

Information Technology Major Course Structure

Year 1 Semester 1	
INB101	Impact of IT
INB102	Emerging Technology
INB103	Industry Insights
INB104	Building IT Systems

Year 1 Semester 2	
	Choose THREE units from the IT Breadth Options List
	Plus ONE unit which may be any Faculty of Science and Technology unit or a unit from another Faculty
	Please note that students must take a total of TWO Faculty of Science and Technology Units and a total of TWO units from another Faculty

Year 2 Semester 1	
INB201	Scalable Systems Development
	Plus ONE unit from the IT Breadth Options List
	Plus ONE unit which may be any Faculty of Science and Technology unit or a unit from another Faculty
	Plus ONE unit from the IT Specialisation Options List
	Please note that students must take a total of TWO Faculty of Science and Technology Units and a total of TWO units from another Faculty

Year 2 Semester 2	
	Choose ONE unit from the IT Specialisation Options List
	Plus TWO units which may be any Faculty of Science and Technology unit or a unit from another Faculty
	Plus ONE unit either from the IT Breadth Options List or the IT Specialisation Options List
	Please note that students must take a total of TWO Faculty of Science and Technology Units and a total of TWO units from another Faculty

Year 3 Semester 1	
BSB115	Management
STB551	Engaging with the Innovation Industry
	Plus ONE unit from the IT Specilisation Options List
	Plus ONE unit either from the IT Breadth Options List or the IT Specialisation Options List

Year 3 Semester 2	
BSB126	Marketing
MGB223	Entrepreneurship and Innovation
	Plus ONE unit from the IT Specilisation Options List
	Plus ONE unit either from the IT Breadth Options List or the IT Specialisation Options List

Year 4 Semester 1	
AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2	
BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project

STB709-3	Innovation and Commercialisation Project

Information Technology Breadth Options List

Students must complete FOUR units from the following list:

INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Systems Architecture
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

Information Technology Specilisation 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

INFORMATION MANAGEMENT:

INB330	Information Management
INB331	Management Issues for Information Professionals
INB332	Information Retrieval
INB333	Information Programs
INB334	Information Issues and Values
INB335	Information Resources

DATA WAREHOUSING:

INB340	Database Design
INB341	Software Development With Oracle
INB342	Enterprise Data Mining
INB343	Advanced Data Mining and Data Warehousing

NETWORK SYSTEMS:

INB350	Internet Protocols and Services
INB351	Computer Network Administration
INB352	Network Planning and Deployment
INB353	Wireless and Mobile Networks

SOFTWARE ENGINEERING:

INB370	Software Development
INB371	Data Structures and Algorithms
INB372	Agile Software Development
INB374	Enterprise Software Architecture

DIGITAL ENVIRONMENTS

INB334	Information Issues and Values
INB345	Mobile Devices
INB346	Enterprise 2.0
INB347	Web 2.0 Applications

UNGROUPED UNITS:

INB355	Cryptology and Protocols
INB365	Systems Programming
INB860	Computational Intelligence for Control and Embedded Systems

Bachelor of Technology Innovation (Microbiology) (ST50)

Year offered: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

Career Outcomes

Graduates can build careers in the world of commercialisation and technology transfer of research innovation and complex emerging technologies pertaining to their specific discipline and beyond. Graduates could pursue careers in all aspects of the new product development continuum including business development officers, venture capital associates, investment analysts, commercialisation managers, technology transfer officers, intellectual property analysts, policy development officers and, of course, research scientists.

Professional Recognition

Graduates are eligible for membership of the Australian Society for Microbiology (ASM).

Microbiology Major Course Structure

Year 1 Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE from the following four units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
	NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101
	Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105
	Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121
	Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2	
SCB120	Plant and Animal Physiology
SCB121	Chemistry 2
SCB122	Cell and Molecular Biology
SCB123	Physical Science Applications

Year 2 Semester 1	
LQB381	Biochemistry: Structure and Function
LQB386	Microbial Structure and Function
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List for Year 2 Semester 1:
LQB383	Molecular and Cellular Regulation
LQB388	Medical Physiology 1

Year 2 Semester 2	
LQB483	Molecular Biology Techniques
LQB486	Clinical Microbiology 1
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Options List for Year 2 Semester 2:
LQB481	Biochemical Pathways and Metabolism
LQB484	Introduction to Genomics and Bioinformatics
LQB488	Medical Physiology 2
LQB489	Plant Physiology and Cell Biology

Year 3 Semester 1	
BSB115	Management
LQB586	Clinical Microbiology 2
LQB587	Applied Microbiology 1: Water, Air and Soil
STB551	Engaging with the Innovation Industry

Year 3 Semester 2	
BSB126	Marketing
MGB223	Entrepreneurship and Innovation
LQB686	Microbial Technology and Immunology
LQB687	Applied Microbiology 2: Food and Quality Assurance

Year 4 Semester 1

AMB240	Marketing Planning and Management
LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project

Bachelor of Technology Innovation (Physics) (ST50)

Year offered: 2010
Admissions: Yes
CRICOS code: 070694G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,125 (indicative) per semester
International Fees (indicative): 2010: $11,750 (indicative) per semester
Domestic Entry: February
International Entry: February and July
Past rank cut-off: 77
Past OP cut-off: 12
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
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.

Career Outcomes

Graduates can build careers in the world of commercialisation and technology transfer of research innovation and complex emerging technologies pertaining to their specific discipline and beyond. Graduates could pursue careers in all aspects of the new product development continuum including business development officers, venture capital associates, investment analysts, commercialisation managers, technology transfer officers, intellectual property analysts, policy development officers and, of course, research scientists.

Professional Recognition

Graduates are eligible for membership of the Australian Institute of Physics (AIP).

Physics Major Course Structure

Year 1 Semester 1	
SCB110	Science Concepts and Global Systems
SCB111	Chemistry 1
SCB112	Cellular Basis of Life
	Plus ONE from the following four units:
MAB101	Statistical Data Analysis 1
MAB105	Preparatory Mathematics
MAB120	Algebra and Calculus
MAB121	Calculus and Differential Equations
	NOTE: Students with a Sound Achievement in Maths B and NOT wishing to major in Mathematics or Physics should enrol in MAB101
	Students without a Sound Achievement (4 semesters) in Maths B should enrol in MAB105
	Students with a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB121
	Students without a Sound Achievement in Maths C and wishing to major in Mathematics or Physics should enrol in MAB120

Year 1 Semester 2	
MAB122	Algebra and Analytic Geometry
PQB250	Mechanics and Electromagnetism
PQB251	Waves and Optics
	Plus ONE from the following two units
MAB121	Calculus and Differential Equations
MAB220	Computational Mathematics 1

Year 2 Semester 1	
MAB311	Advanced Calculus
PQB350	Thermodynamics of Solids and Gases
	Plus TWO units from the relevant options List which may include one unit from outside the Faculty
	Relevant Unit Options List for Year 2, Semester 1:
PCB593	Digital Image Processing
PQB360	Global Energy Balance and Climate Change

Year 2 Semester 2	
PQB450	Energy, Fields and Radiation
PQB451	Electronics and Instrumentation
	Plus TWO ADVANCED units offered by the Faculty of Science and Technology
	Relevant Unit Options List for Year 2, Semester 2:
PQB460	Astrophysics 1

Year 3 Semester 1	
BSB115	Management
PQB550	Quantum and Condensed Matter Physics
PQB551	Physical Analytical Techniques
STB551	Engaging with the Innovation Industry

Year 3 Semester 2	
BSB126	Marketing
MGB223	Entrepreneurship and Innovation
PQB650	Advanced Theoretical Physics
PQB651	Experimental Physics

Year 4 Semester 1	
AMB240	Marketing Planning and Management

LWS007	Introduction To Intellectual Property Law
MGB324	Managing Business Growth
STB709-1	Innovation and Commercialisation Project

Year 4 Semester 2

BSB311	Innovation Commercialisation Strategies
MGB225	Intercultural Communication and Negotiation Skills
STB709-2	Innovation and Commercialisation Project
STB709-3	Innovation and Commercialisation Project