Extended Foundation (QC04)

Year offered: 2011
Admissions: Yes
CRICOS code: 050167G
Course duration (full-time): 3 Semesters
International Fees (indicative): 2011: $17,321 (full course fee)
International Entry: February
Total credit points: 132
Standard credit points per full-time semester: 13TP1 - 48CP, 13TP2 - 60CP, 13TP3 - 24CP
Course coordinator: Scott Leisemann
Campus: Kelvin Grove

Entry Requirements - English Language
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).

Progression
Conditions of progressing to a guaranteed place in first year of a QUT degree:

i) fulfil the Foundation course requirements,
ii) gain a grade of at least 5 (Credit) in Academic English 2 (QCF212) [Built Environment and Engineering students require a grade of 4 (Pass)]. SC45 Bachelor of Pharmacy and PH38 Bachelor of Applied Science – Medical Radiation Technology (Medical Imaging Technology) students require a grade of 6 (Distinction) AND an IELTS of 7.0 (no subscores less that 6.0), and
iii) achieve the relevant faculty Grade Point Average (GPA) - this is calculated on final semester Level 2 units only.

Students who do not meet requirements for a guaranteed place in either a QUT degree or University Diploma Program, may still be considered for entry by the relevant faculty.

Required Foundation Grade Point Average by Faculty
Built Environment - Required GPA 4.6
Business - Required GPA 4.8
Creative Industries - Required GPA 4.4
Education - Required GPA 4.6
Engineering - Required GPA 4.6
Health - Human Services - Required GPA 4.2
Health (except Nutrition & Dietetics, Optometry, Psychology, Podiatry & Human Services) - Required GPA 4.6
Health - Nutrition & Dietetics - Required GPA 5.8
Health - Optometry - Required GPA 5.8
Health - Podiatry - Required GPA 5.8
Health - Psychology - Required GPA 5.0
Law (except Justice Studies) - Required GPA 4.8
Law - Justice Studies - Required GPA 4.2
Science & Technology (except IT, Pharmacy & Medical Imaging Technology) - Required GPA 4.6
Science & Technology - Information Technology - Required GPA 4.8
Science & Technology - Pharmacy & Medical Imaging Technology - Required GPA 5.8

N.B. Grades in each unit are awarded on a scale from 1 to 7, with 7 being the highest.

QC04 - Extended Foundation Program

Semester One
QCF115 Foundation English
QCF156 Mathematics A1
OR
QCF157 Mathematics B1
+ TWO ELECTIVES from the following list
QCF120 Accounting 1
QCF121 Economics 1
QCF153 Physical Sciences
QCF122 Organisations And Management
QCF252 Life Science

Note: There is no computing component in QCF115 for 13TP2 & 13TP3.
Note: In some semesters some elective units may not be offered if there is insufficient demand.

Semester Two
QCF100 Computing
QCF112 Academic English 1
QCF256 Mathematics A2
OR
QCF257 Mathematics B2
OR
QCF260 Professional Studies
+ TWO ELECTIVES from the following list
QCF122 Organisations And Management
QCF160 Introduction to Creativity
Potential Careers:
Academic, Account Executive, Accountant, Actor, Actuary, Administrator, Adult/Workplace Educator, Advertising Professional, Aerospace Avionics Engineer, Aged Services Worker, Analytical Chemist, Animator, Architect, Art Project Manager, Art Writer, Artist, Arts Administrator, Astrophysicist, Band Leader, Banker, Banking and Finance Professional, Barrister, Biochemist, Bioengineer, Bioinformatician, Biologist, Biomechanical Engineer, Biomedical Engineer, Biotechnologist, Business Analyst, Cell Biologist, Certified Practicing Accountant, Chemical Technologist, Chemist, Chemist Industrial, Child Care Professional, Child Protection Officer, Choreographer, Civil Engineer, Clinical Laboratory Scientist, Coastal Scientist, Community Corrections Officer, Community Education Officer, Community Health Officer, Community Worker, Composer, Computer Game Programmer, Computer Games Developer, Computer Salesperson/Marketer, Computer Systems Engineer, Conductor, Conservation Biologist, Construction Manager, Contract Administrator, Corporate Secretary, Corrective Services Officer, Counsellor, Creative Writer, Crown Law Officer, Curator, Customs Officer, D.J., Dance Teacher, Dancer, Data Communications Specialist, Database Manager, Digital Composer, Diplomat, Disability Services Worker, Drama Teacher, Early Childhood Teacher, Ecologist, Economist, Educator, Electrical and Computer Engineer, Electrical Contractor, Electrical Engineer, Electronic Commerce Developer, Engineering Technologist, English Teacher, Environmental Engineer, Environmental Health Officer, Environmental Scientist, Estimator, Exchange Student, Exercise Physiologist, Exploration Geologist, Facilities Manager, Family Services Officer, Fashion Designer, Fashion Professional, Film Composer, Film/Television Producer, Financial Advisor/Analyst, Financial Project Manager, Fitness Assessor/Personal Trainer, Forensic Biologist, Forensic Chemist, Forensic Scientist, Funds Manager, Geologist, Geophysicist, Geoscientist, Government Officer, Guidance Officer, Health Information Manager, Health Physicist, Health Services Manager, Higher Education Worker, Home Economist, Human Resource Developer, Human Resource Manager, Human Services Practitioner, Hydrogeologist, Immunologist, In-House Lawyer, Industrial Chemist, Industrial Designer, Information Officer, Information Security Specialist, Instrument Maker, Interior Designer, International Business Specialist, Internet Professional, Investigator, Investment Manager, Journalist, Kindergarten Teacher, Laboratory Technician (Chemistry), Landscape Architect, Librarian, Manager, Manufacturer, Mapping Scientist/Photogrammetrist, Marine Scientist, Market Research Manager, Marketing Officer/Manager, Mastering Engineer, Mathematician, Mechanical Engineer, Media Industry Specialist, Medical Biotechnologist, Medical Engineer, Medical Equipment Sales, Medical Imaging Technologist, Medical Physicist, Medical Scientist, Microbiologist, Molecular Biologist, Multimedia Designer, Music Agent/Manager, Music Publisher, Music Sampler, Music Teacher, Music Technologist, Musical Director, Musician, Natural Resource Scientist, Network Administrator, Network Manager, Nurse, Nutritionist/Dietitian, Occupational Health and Safety Officer, Optometrist, Organisational Communication Specialist, Pathology Scientist, Pharmaceutical Research Scientist, Physicist, Plant Biotechnologist, Podiatrist, Police Officer (Australian Federal), Police Officer (State), Policy Officer, Population Ecologist, Post-production specialist, Preschool Teacher, Primary School Teacher, Programmer, Project Manager, Property Development, Property Economist, Psychologist, Public Health Officer, Public Relations Officer/Consultant, Public Servant, Publishing Professional, Quantitative Analyst, Quantity Surveyor, Radiation Therapist, Radiographer, Recording Engineer, Rehabilitation Engineer, Rehabilitation Professionals, Research and Development Chemist, Risk Manager, Sales Person, School Counsellor, Scientist, Secondary School Teacher, Social Scientist, Sociologist, Software Engineer, Solicitor, Song Writer, Sonographer, Sound and Music Producer, Sound Designer, Sound/Audio Engineer, Sports Scientist, Stage Manager, Statistician, Stockbroker, Surveyor, Systems Analyst, Systems Manager, Systems
UNIT SYNOPTES

QCF112 ACADEMIC ENGLISH 1
This unit is designed to help students communicate successfully in a variety of situations. This includes the fundamentals of oral and written communication set within the context of a number of academic situations. This will include effective listening skills, knowledge of how to conduct a seminar, the gathering of information from a variety of sources and its organisation for specific purposes, the various writing genres and the correct use of conventions in the English language.

Credit points: 12  Contact hours: 6 per week  Campus: Kelvin Grove  Teaching period: 2011 13TP1, 2011 13TP2 and 2011 13TP3

QCF115 FOUNDATION ENGLISH
This unit is designed to continue the development of reading, writing, speaking and listening skills in English to prepare students for further studies in Foundation Communications. A variety of everyday English literature and real-life situations will be incorporated, with the emphasis being on active participation by students, as individuals and as group members. Such activities will provide students with the skills to explore and use the English language in different contexts. Basic computing skills for word processing and the use of QUT computing services will also be developed.

Credit points: 12  Contact hours: 4 hours per week  Campus: Kelvin Grove  Teaching period: 2011 13TP1, 2011 13TP2 and 2011 13TP3

QCF120 ACCOUNTING 1
This unit introduces the essential concepts of debit and credit; processing of financial transactions via journals and ledger through to trial balance for a sole-trading enterprise (including GST); end of accounting period adjustments and final reports (specifically preparation of Income Statement and Balance Sheet) and accounting controls over cash.

Credit points: 12  Contact hours: 4 per week  Campus: Kelvin Grove  Teaching period: 2011 13TP1, 2011 13TP2 and 2011 13TP3

QCF121 ECONOMICS 1
This unit introduces students to major economic issues; the basics of economic literacy necessary for future tertiary studies; a working knowledge of the global economy; an understanding of economic problems with particular reference to Australia; the main economic systems; the purpose of a five-sector model and the functions and characteristics of each sector.

Credit points: 12  Contact hours: 4 per week  Campus: Kelvin Grove  Teaching period: 2011 13TP1, 2011 13TP2 and 2011 13TP3

QCF122 ORGANISATIONS AND MANAGEMENT
This unit is designed to develop understanding of the significant role that organisations play in many facets of our lives, how organisations function and what is involved in working in organisations. The emphasis is on skills that are needed at all levels and in all areas of an organisation. You will develop a range of skills that are required by the individual to function effectively in teams and in an organisation.

Credit points: 12  Contact hours: 4 per week  Campus: Kelvin Grove  Teaching period: 2011 13TP1, 2011 13TP2 and 2011 13TP3

QCF153 PHYSICAL SCIENCES
This unit introduces students to scientific study and research processes and the basic principles underlying physics and chemistry; heat and temperature; geometric properties of light; reflection and refraction; diffraction and interference; introduction to electricity and magnetism; the atom; chemical periodicity; chemical names and formulas; chemical bonding; chemical quantities; chemical reactions; stoichiometry; thermochemistry; the behaviour of gases; water and aqueous systems; properties of solutions.

Credit points: 12  Contact hours: 4 per week  Campus: Kelvin Grove  Teaching period: 2011 13TP1, 2011 13TP2 and 2011 13TP3

QCF156 MATHEMATICS A1
This unit focuses on basic rules of arithmetic; ratio, percentages and proportion; introduction to statistics; averages and interpretation of graphs; dispersion and graphical display; probability; arrangements and combinations; basic measurement, area and volume; spending money; borrowing money and investment.

Credit points: 12  Contact hours: 4 per week  Campus: Kelvin Grove  Teaching period: 2011 13TP1, 2011 13TP2 and 2011 13TP3

QCF157 MATHEMATICS B1
This unit focuses on basic algebra; equations (including simultaneous equations); functions (including polynomials, exponential, logarithmic) and their graphs; growth and decay; introduction to trigonometry; factorisation; analytical geometry; averages; interpretation of graphs and probability.

Credit points: 12  Contact hours: 4 per week  Campus:
Kelvin Grove  

**Teaching period:** 2011 13TP1, 2011 13TP2 and 2011 13TP3

**QCF160 INTRODUCTION TO CREATIVITY**

In this unit students will be introduced to theories of creativity and will investigate the nature of creative culture and practice. The unit will provide students with opportunities to analyse creative applications, ideas and concepts in a range of industries.

**Credit points:** 12  
**Contact hours:** 4 hours per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 13TP1, 2011 13TP2 and 2011 13TP3

**QCF212 ACADEMIC ENGLISH 2**

This unit contributes to the ongoing development of academic capabilities, effective communication in a variety of contexts and modes and critical, creative and analytical thinking. The unit specifically develops skills in listening, reading, analysing, summarising and paraphrasing, spoken and written material from a range of sources.

**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 13TP1, 2011 13TP2, 2011 13TP3 and 2011 13TP6

**QCF220 ACCOUNTING 2**

This unit examines various accounting sub-systems such as: 10-column worksheets; control accounts and subsidiary ledgers; inventory and fixed asset systems; accounting for credit transactions; budgeting; and financial analysis techniques useful for management.

**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 13TP1, 2011 13TP2 and 2011 13TP3

**QCF221 ECONOMICS 2**

This unit introduces students to the study of macroeconomics. Topics include the five-sector model, the trade cycle, inflation and unemployment, government policy, and the external sector.

**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 13TP1, 2011 13TP2 and 2011 13TP3

**QCF230 INFORMATION PROCESSING**

This unit introduces students to a range of problem-solving techniques and shows how these can be used to solve various problems using an object-oriented programming language; the foundation of relational databases in terms of storing, altering and retrieving information, using SQL for its implementation; a basis for the specification and implementation of information systems using relational algebra.

**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 13TP1, 2011 13TP2 and 2011 13TP3

**QCF252 LIFE SCIENCE**

This unit examines the themes of life, macromolecules, metabolism, cell structure, cell processes, biological diversity, plant and animal physiology. The unit emphasises practical skills both in the laboratory and in the field.

**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 13TP1, 2011 13TP2 and 2011 13TP3

**QCF254 PHYSICS**

This unit introduces students to mechanics, sound, light, electricity; magnetism; electronics and nuclear physics. Relevance to real world activities is stressed by discussing the various applications of concepts learned.

**Credit points:** 12  
**Contact hours:** 5  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 13TP1, 2011 13TP2 and 2011 13TP3

**QCF255 CHEMISTRY**

This unit prepares students for tertiary study in the applied sciences and provides a solid foundation in basic chemistry and experimental techniques; elements, atoms and ions, modern atomic theory; chemical bonding; inorganic compounds; chemical reactions and energy; water and solutions; gases; acids and bases; oxidation-reduction reactions and electrochemistry; reaction rates and chemical equilibrium and introductory organic chemistry.

**Credit points:** 12  
**Contact hours:** 5  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 13TP1, 2011 13TP2 and 2011 13TP3

**QCF256 MATHEMATICS A2**

This unit focuses on basic algebra; introduction to trigonometry; normal distribution; hypothesis testing; contingency tables; regression analysis; binomial distribution; inferential statistics; earning money; interest; annuities and t-Distribution.

**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 13TP1, 2011 13TP2 and 2011 13TP3

**QCF257 MATHEMATICS B2**

This unit focuses on rate of change; the derivative; stationary points; curve sketching; optimisation; integration; probability distribution; the binomial distribution; normal distribution; hypothesis testing; dispersion, graphical display.

**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 13TP1, 2011 13TP2 and 2011 13TP3

**QCF260 PROFESSIONAL STUDIES**
This unit is designed to expand your understanding of creativity and to provide you with experience in using problem solving tools and models in a range of situations. The unit develops skills in working in groups and reflection that are applicable to any field of study or faculty. Undertaking a project provides a practical opportunity for using creative processes and problem solving techniques.

**Credit points:** 12  
**Contact hours:** 4 hours per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 13TP1, 2011 13TP2 and 2011 13TP3

**QCF270 INTERNATIONAL PERSPECTIVES**

This unit is designed to introduce students to a range of matters including economic, social, cultural, political and environmental, which impact on students as an individual and as a global citizen. It is intended to develop students ability to consider these matters in an analytical and informed way and to develop an action research learning approach to a broad range of international perspectives.

**Credit points:** 12  
**Contact hours:** 4 hours per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 13TP1, 2011 13TP2 and 2011 13TP3