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
UnivDiplInfTech

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:

UNIT SYNOPSISES

IND102 EMERGING TECHNOLOGY
The aim of this unit is to provide you with a conceptual framework so that you clearly identify Information Technologies and their purpose. This task will be fun as it covers a wide spectrum of ideas and allows us to examine some currently popular technologies. Information Technology has become so entwined with everyday life that identifying its scope is difficult, which also makes it difficult to identify opportunities where IT might further infiltrate into our daily lives for work and play. To achieve these aims, the
This unit introduces you to some of the theories and engineering practicalities that have already resulted in technological advances in the area of information technology. Concepts leading to existing technologies are introduced during lectures, which are followed by laboratory sessions where students will be encouraged to discuss social change, future information tools and explore the concepts required for constructing these technologies.

**Credit points:** 12  
**Contact hours:** 4 hours per week  
**Teaching period:** 2010 13TP1, 2010 13TP2 and 2010 13TP3

**IND103 INDUSTRY INSIGHTS**

This unit aims to develop your awareness of the career possibilities in the ICT industry and to equip you with some of the essential skills required of an ICT professional. The unit helps you to derive a roadmap for your career; to enable you to identify the qualities, skills and interests you need to possess, to plan your career path. The unit will also introduce you the inter-disciplinary nature of ICT careers.

**Credit points:** 12  
**Contact hours:** 4 hours per week  
**Teaching period:** 2010 13TP1, 2010 13TP2 and 2010 13TP3

**IND104 BUILDING IT SYSTEMS**

This team-based unit is an integrated introduction to information technology designed to engage, inspire and inform and will demonstrate the important role that technical system design and development plays in achieving robust operation of a large variety of technological solutions. This unit will give you substantial hands-on, practical learning experiences and will motivate you through engagement in the creative, explorative and meaningful development of technological artefacts that operate in real world contexts.

**Credit points:** 12  
**Contact hours:** 4 hours per week  
**Teaching period:** 2010 13TP1, 2010 13TP2 and 2010 13TP3

**IND210 DATABASES**

The aim of this unit is to help you develop your knowledge, understand a formal specification tool (ORM) for modelling information systems unambiguously and to apply this formal technique to conceptualise information systems found in many real world application domains.

**Credit points:** 12  
**Contact hours:** 4 hours per week  
**Teaching period:** 2010 13TP1, 2010 13TP2 and 2010 13TP3

**IND251 NETWORKS**

Computer systems and communications networks are essential to the activities of modern organisations. When you graduate from a course in Information Technology, employers expect you to have a sound understanding of the terminology and concepts of computer systems, communications networks, and network services. This unit provides you with an introductory study of communications network technologies and network applications. The unit serves as an entry point to further specialised studies in the field of computer network systems.

**Credit points:** 12  
**Contact hours:** 4 hours per week  
**Teaching period:** 2010 13TP1, 2010 13TP2 and 2010 13TP3

**IND270 PROGRAMMING**

This unit aims to give you a positive introduction to the skills required in solving computational problems and implementing solutions in a programming or scripting language. Although some theoretical aspects of computer programming are introduced briefly, the overall emphasis of the unit is programming practice. The unit emphasises generic programming concepts and related problem-solving strategies. The skills you learn in this unit will be applicable to a wide variety of commonly-used, industrially-significant programming and scripting languages.

**Prerequisites:** IND104  
**Credit points:** 12  
**Contact hours:** 4 hours per week  
**Teaching period:** 2010 13TP1, 2010 13TP2 and 2010 13TP3

**QCD120 PROFESSIONAL COMMUNICATION 1**

This unit focuses on the macro-skills of listening, reading, writing and speaking; establishes techniques for extending vocabulary; uses spoken and written texts of an academic nature to summarise, analyse, make inferences and recognise key concepts; incorporates strategies for effective group participation in a cross-cultural context; helps students learn techniques for writing successfully in genres appropriate to their field of study.

**Equivalents:** QCD110, QCD111  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2010 13TP1, 2010 13TP2 and 2010 13TP3

**QCD220 PROFESSIONAL COMMUNICATION 2**

This unit further explores vocabulary and grammar and generic structure to develop skills of speaking and writing in the context of field, tenor and mode. Effective speaking skills are developed according to academic presentation requirements. Skills for coherent and well-structured writing are extended to enable efficient essay writing and the refinement of exam techniques. Language and structure appropriate to commercial, technical and academic communication are developed in support of technology subjects. Communication for Information Technology 2 language learning tasks are parallel with content material from these units.

**Prerequisites:** QCD120  
**Equivalents:** QCD210, QCD211  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2010 13TP1, 2010 13TP2 and 2010 13TP3