Graduate Certificate in Information Technology
(Information Security) (IT92)

Year offered: 2011
Admissions: No
Course duration (part-time): 2 semesters or 26 weeks
(based on completing 2 units/sem)
Domestic Fees (indicative): 2011: Full fee tuition $7,375
(indicative) per semester
Assumed knowledge: See entry requirements
Preparatory studies: For information on acquiring
assumed knowledge visit http://www.qut.edu.au/assumed-knowledge
Total credit points: 48
Course coordinator: Dr Ernest Foo
Campus: Gardens Point

Course Overview
Please note: From 2009, this course is discontinued. IT92
continuing students should contact the course coordinator,
Ernest Foo for enrolment or progression advice via
enquiry.scitech@qut.edu.au or 3138 2782.

The Graduate Certificate in Information Technology consists
of four designated units (48 credit points) which highlight
career specialisations. Students can complete the program
over 26 weeks part time (based on undertaking two subjects
per semester).

GCert IT (Information Security) are designed to provide you
with training and a strong understanding of security-related
issues in information technology systems. You learn about
security problems encountered in computing systems, and
explore measures that can be used to secure these
systems. An information security background is not
necessary for entry to this module.

Further Information
For further information about this course, please contact:
Ernest Foo
Phone: +61 7 3138 2782
Email: enquiry.scitech@qut.edu.au

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.

UNIT SYNOPSISES

INN255 SECURITY
This unit aims to give you an understanding of the major
issues in information security. You will be able to identify
critical information security concepts and determine the
information security implications of interactions between
entities. You will have knowledge of a range of techniques
for protecting information, and understand the limitations of
these techniques. You will be aware of international
information security management standards.

Antirequisites: INB255, ITB161, ITB523, ITB623, ITB730
Equivalents: ITN161, ITN511, ITN523, ITN663, ITN730
Credit points: 12 Contact hours: 3 per week Campus:
Gardens Point Teaching period: 2011 SEM-1

INN355 CRYPTOLOGY AND PROTOCOLS
Cryptographic techniques are widely used to implement
computer and network security. As an IT security
professional you may be required either to evaluate or
implement information systems using cryptographic
algorithms and protocols. This elective unit covers the main
cryptographic technical concepts including encryption,
digital signatures and cryptographic protocols.

Antirequisites: INB355 Assumed knowledge: Maths B
or equivalent (e.g. MAB105) is assumed knowledge.
Equivalents: ITB548, ITB566, ITB646, ITB732, ITN566,
ITN512, ITN581, ITN732 Credit points: 12 Contact
hours: 3 per week Campus: Gardens Point Teaching
period: 2011 SEM-1

INN652 ADVANCED CRYPTOLOGY
Cryptology forms a core discipline in the study of
information security. This unit concentrates on the latest
developments in cryptology. This is a specialised unit that
prepares postgraduate students for research in cryptology.
The aim of the unit is to explore and understand recent
developments in the theory and practice of cryptology. The
unit provides fundamental knowledge for students seeking
to undertake postgraduate research or work in the area of
information security, especially involving cryptology.
Credit points: 12  
Campus: Gardens Point  
Teaching period: 2011 SEM-2

INN690 MINOR PROJECT 1
The aims of this unit are to help you acquire necessary skills in a problem domain, and to enable you to conduct a well-defined project with specific outcomes within a precisely defined project plan. This unit also teaches you how to prepare a well written project report.

Assumed knowledge: Completion of at least 48 credit points of Postgraduate level IT units is assumed knowledge.

Credit points: 12  
Campus: Gardens Point  
Teaching period: 2011 SEM-1, 2011 SEM-2 and 2011 SUM