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: 97
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.
**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
- INB105 Breadth Option
- INB106 Breadth Option
- INB107 Breadth Option
- INB108 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)
- INB202 INN Elective
- INB203 INN Elective
- INB204 Building IT Systems

### Year 2, Semester 2
- INB205 Breadth Option
- INB206 Breadth Option
- INB207 Breadth Option
- INB208 Complementary Studies unit (Elective)

### Year 2, Summer
- INB209 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
- INN 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**

### Year 1, Semester 1
- INB101 Impact of IT
- INB102 Emerging Technology
- INB103 Industry Insights
- INB104 Building IT Systems

### Year 1, Semester 2
- INB105 Breadth Option
- INB106 Breadth Option
- INB107 Breadth Option
- INB108 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)
- INB202 INN Elective
- INB203 INN Elective
- INB204 Building IT Systems

### Year 2, Semester 2
- INB205 Breadth Option
- INB206 Breadth Option
- INB207 Breadth Option
- INB208 Complementary Studies unit (Elective)

### Year 2, Summer
- INB209 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
- INN 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
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)

INN700  Introduction To Research
INN Elective
INN Elective
Honours Dissertation 1

Year 3, Summer
Honours Dissertation 2
Honours Dissertation 3
Honours Dissertation 4

UNIT SYNOPSES

INB101 IMPACT OF IT
You will gain an appreciation of the massive and positive impact that IT has had on a wide range of fields including business, science, engineering, education and health. You will learn about the benefits of increased productivity due to IT. You will consider ethical issues and possible negative impacts of IT. You will raise your awareness of the social implications of IT systems for society at the global, local and personal levels. You will develop an informed position on issues, and justify your reasoning with considered supportive arguments.

Antirequisites: ITB361, INN101  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2010 SEM-1 and 2010 SEM-2

INB102 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 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.

Antirequisites: ITB005  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2009 SEM-1 and 2009 SEM-2

INB102 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 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.

Antirequisites: ITB005  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2009 SEM-1 and 2009 SEM-2

INB102 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 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.

Antirequisites: ITB005  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2009 SEM-1 and 2009 SEM-2

Incompatible with: ITB361

INB102 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 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.

Antirequisites: ITB005  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2009 SEM-1 and 2009 SEM-2

Incompatible with: ITB005
INB103 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.

Contact hours: 3 per week  
Campus: Gardens Point  
Teaching period: 2010 SEM-1 and 2010 SEM-2

INB201 SCALABLE SYSTEMS DEVELOPMENT
TBA

Prerequisites: (INB102 or ITB005) and (INB104 or ITB001)  
Assumed knowledge: Completion of 36cp of Breadth units is assumed knowledge  
Credit points: 12  
Contact hours: 3 per week  
Campus: Gardens Point  
Teaching period: 2010 SEM-1

INB300 PROFESSIONAL PRACTICE IN IT
In this unit you will have the opportunity to experience real world work experiences and to reflect on how your studies have prepared you for the work environment. This will give you the opportunity to plan on how to best take advantage of your remaining studies to prepare for your planned career. To help you to understand your future career you will be working in a team and/or group environments, seeing firsthand the challenges and constraints that arise during professional practice in a real world industry environment. You will develop a richer appreciation of the graduate capabilities required of all information technology professionals, particularly skills such as communication, negotiation and problem-solving strategies.

Prerequisite(s): Having completed at least 168 credit points within the BIT  
Corequisite(s): Nil  
Credit points: 12  
Contact hours: 3 per week  
Campus: Gardens Point  
Incompatible with: ITS010

INB104 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.

Contact hours: 3 per week  
Campus: Gardens Point  
Teaching period: 2010 SEM-1 and 2010 SEM-2

INB300 PROFESSIONAL PRACTICE IN IT
In this unit you will have the opportunity to experience real world work experiences and to reflect on how your studies have prepared you for the work environment. This will give you the opportunity to plan on how to best take advantage of your remaining studies to prepare for your planned career. To help you to understand your future career you will be working in a team and/or group environments, seeing firsthand the challenges and constraints that arise during professional practice in a real world industry environment. You will develop a richer appreciation of the graduate capabilities required of all information technology professionals, particularly skills such as communication, negotiation and problem-solving strategies.

Prerequisite(s): ITS020, INS010, INS011, INS012, INS020  
Assumed knowledge: Completion of 168 credit points
INB301 THE BUSINESS OF IT

This unit will prepare you for professional practice by giving you practical knowledge and skills about how to prepare a project plan and monitor its implementation. You will learn about the process of identifying a business opportunity and how to take advantage of that opportunity. You will learn about how to create successful entrepreneurial teams. You will gain an insight into the different challenges and approaches to funding a venture. You will learn how to break a project up into manageable tasks and estimate the duration of tasks to start planning a project schedule. You will be introduced to core strategic models, discuss typical strategy tools and then apply them to the 'Business of IT'. You will be introduced to techniques for conceptualising strategy, such as Strategy Maps / Balanced Scorecard. Different governance models would be introduced, with a focus on IT governance.

Prerequisite(s): Completion of at least 120 credit points of IT units
Corequisite(s): Nil
Credit points: 12
Contact hours: 3 per week
Campus: Gardens Point
Teaching period: 2009 SEM-1 and 2009 SEM-2
Incompatible with: ITB009

INB301 THE BUSINESS OF IT

As an IT professional you are more and more evaluated in terms of the business value that you produce. This unit will prepare you for professional practice by making you "business savvy," i.e. giving you the business knowledge and skills that will help you with your future career and job. In particular the unit will address three themes: (1) career planning and job applications, (2) entrepreneurship & innovation, and (3) business and IT strategy. You will be introduced to career development tools that enable you to self-manage your career and life. You will learn how to critically think about the requirements of a job and reflect upon your own experiences and learn how to communicate them. You will also learn about the entrepreneurial process of identifying a business opportunity and how to take advantage of that opportunity. In addition, you will gain an understanding of core strategic concepts and models, discuss typical strategy tools and then apply them to the 'Business of IT'.

Antirequisites: ITB009
Assumed knowledge: Completion of 120 credit points within BIT is assumed
Credit points: 12
Contact hours: 4 per week
Campus: Gardens Point
Teaching period: 2010 SEM-1 and 2010 SEM-2

INB302 CAPSTONE PROJECT

Students are to work together in a team of 4-5 on a project that addresses one of the following three types of problems: real business problems, real market needs, real research problems. This unit extends students' development of the professional, technical and teamwork skills required by IT professionals in practice. Students will extend their knowledge and skills in the areas of IT project management through completing professional project documentation and managing the team project. Students will also gain a greater understanding and skill level in analysis and design, and their significance in delivering successful business or research outcome. The unit also focuses on furthering students' professional skills in report writing, oral communication, and visual communication.

Prerequisites: INB301
Assumed knowledge: Students are expected to have a solid IT background knowledge (e.g., completion of at least 192 credit points)
Equivalents: ITB010
Credit points: 12
Contact hours: 3 per week
Campus: Gardens Point
Teaching period: 2010 SEM-1, 2010 SEM-2 and 2010 SUM

INB302 CAPSTONE PROJECT

Students are to work together in a team of 4-5 on a project that addresses one of the following three types of problems: real business problems, real market needs, real research problems. This unit extends students' development of the professional, technical and teamwork skills required by IT professionals in practice. Students will extend their knowledge and skills in the areas of IT project management through completing professional project documentation and managing the team project. Students will also gain a greater understanding and skill level in analysis and design, and their significance in delivering successful business or research outcome. The unit also focuses on furthering students' professional skills in report writing, oral communication, and visual communication.

Prerequisites: ITB009 or INB301
Corequisite(s): Nil
Credit points: 12
Contact hours: 3 per week
Campus: Gardens Point
Incompatible with: ITB010

INN700 INTRODUCTION TO RESEARCH

This unit is aimed at those seeking to undertake a major research project. Except in unusual circumstances, you should have a project in mind and have organised a supervisor.

Assumed knowledge: Must be con-currently enrolled in either full-time or part-time Higher Research Degree (i.e. PhD, ProDoc, Research Masters, or Honours) or, if coursework masters then a 48cp research project. In all instances, must have a formal Principle Supervisor
Equivalents: ITN100
Other requisites: Unit Coordinator Approval and a course GPA of at least 5.5 is required to enrol.
Credit points: 12
Campus: Gardens Point
Teaching period: 2010 SEM-1, 2010 SEM-2 and 2010 SUM
SUM

INN700 INTRODUCTION TO RESEARCH
This unit is aimed at those seeking to undertake a major research project. Except in unusual circumstances, you should have a project in mind and have organised a supervisor.

Prerequisite(s): Min GPA 5   Corequisite(s): Nil   Credit points: 12   Campus: Gardens Point   Incompatible with: previously offered as ITN100