

# FACULTY OF INFORMATION TECHNOLOGY

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# FACULTY OF INFORMATION TECHNOLOGY

## Information for all Information Technology students

### Graduation rules

This information is relevant to all Faculty of Information Technology courses.

Students who commenced study towards a QUT award from Semester 1, 1990 (inclusive) are covered by QUT Student Rules, Procedures and Policies. To qualify for graduation, students admitted to courses offered by the Faculty of Information Technology on Gardens Point campus prior to 1990 should:

- (i) obtain a grade of at least 3 in all units specified for the award; and
- (ii) obtain a Graduation Index of at least 3.9. (Graduation Index is calculated as for grade point average but counting only the best results for a repeated unit and ignoring all units for which the best result is a 2 or a 1. A student may repeat any unit in order to upgrade the result and hence increase the Graduation Index.)

### Rules and regulations

Students undertaking courses in the Faculty of Information Technology should acquaint themselves with Faculty policy on assessment, deferred examinations, and plagiarism in programming assignments. In many cases, Faculty policy is more explicit than University policy. Students should make sure they obtain a copy of the Faculty's Student Information Booklet, which is distributed at the beginning of each semester.

### Faculty policy regarding use of University computer facilities

Access to computer accounts, E-mail, and bulletin board facilities via QUT equipment is provided solely to assist students in education and research. Use of such facilities by students for matters unrelated to their course of study or approved research represents misuse. Any misuse may result in fines, suspension of use of computer accounts, and/or strict disciplinary action. Students will be required to sign a code of conduct on the use of these facilities.

### Cooperative Education Program (Elective Unit ITB904 – Industrial Training Experience)

AIMS

The purpose of the Cooperative Education Program is to provide students within the Bachelor of Information Technology experience of a real world environment prior to the study of the more advanced aspects of the course in which they are enrolled. This experience:

- (i) enables the student to place the concepts learned in the first two years in context; and
- (ii) provides an experience that will enhance the benefits obtained from early study.

The Cooperative Education period necessarily involves reorientation and on-the-job training but students are expected to apply study skills to the acquisition of the necessary knowledge and, in general, employers are not expected to provide formal training.

#### SELECTION CRITERIA

To qualify for the Cooperative Education Program, students must have enrolled in the fourth semester (or equivalent) of the Bachelor of Information Technology, and either passed all units or attained an overall grade point average of 4.5 in the first three semesters (or equivalent). The option to review a student's grade point average at the end of the fourth semester is available to employers.

#### FEATURES

The Cooperative Education Program is offered under the guise of the unit ITB904 Industrial Training Experience and has the following features:

- The Faculty assists students to obtain suitable employment for the one-year period and also discusses the nature of the work to be undertaken with the employer. As employers choose their placements from interviews, the Faculty also arranges for students to attend sessions on interview techniques conducted by the Counselling Centre.
- An academic member of staff normally visits the student once per semester and discusses progress with the student and a representative of the employer.
- During the training period the student writes two reports on the experience, submits them to the employer for endorsement and comment, and then hands them to the Student Officer for assessment. The reports should highlight different aspects of the period, and include comments and recommendations.
- A pass in this module, as well as 24 credit points, will be granted on the basis of:
  - (i) satisfactory completion of an approved period of cooperative education; and
  - (ii) submission of satisfactory reports on the year's experience. The reports must be submitted not later than the due dates specified in the study guides.
- A salary is paid to the student by the employer during this training period.
- The Faculty carefully monitors all cooperative education placements and keeps a list of employers prepared to offer training. The Faculty makes its best endeavour to find suitable training places for all students who meet the selection criteria and elect to undertake this option.
- Part-time students may apply for credit towards ITB904 on the basis of their employment. Credit will be granted on the basis of a two-year period of full-time employment in an approved environment and compliance with a number of administrative requirements:
  - (i) a statement from the course coordinator that the arrangements have been discussed with the employer and that the proposed period of employment will provide appropriate work experience;
  - (ii) satisfactory reports, written by the student, endorsed by the employer and submitted no later than the due dates.
- It is intended that full-time students on the scheme will devote their prime efforts to the Industrial Training Experience and will not, therefore, be permitted to register for more than one other unit per semester during that year.

**Note:** Where there has been significant evidence of plagiarism or computer misuse by a student at any time during the course, no placement will be available to that student.

## ■ Master of Applied Science (Research) (IT84)

See entry under University-wide and Interfaculty Courses.

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time, 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Associate Professor George Mohay

The units below have been devised to represent the EFTSU (Effective Full-Time Student Unit) and attendance type of graduate research students.

You should enrol in the relevant unit in **each** semester of your masters enrolment. At the end of each semester your result in the unit will show as 'T' – Assessment Continues. A final grade (Satisfactory/Unsatisfactory) will be given once the thesis has been examined according to the degree rules.

If you are required to, or if you elect to, undertake additional units as part of your doctoral enrolment, you should **not** enter these units on your enrolment form. Please attach an additional sheet to your enrolment form listing the additional units so that appropriate arrangements can be made. These additional units will not appear on your Enrolment Statement but your enrolment will be confirmed in due course.

### Course Structure

#### Semesters 1 and 2

Full-time students enrol in either:

IFN100 Full-Time Masters Research

or, in instances where a candidate has exceeded the normal course duration and an extension of time has been approved:

IFN101 Full-Time Masters Research (extension)

Part-time students enrol in either:

IFN200 Part-Time Masters Research

or, in instances where a candidate has exceeded the normal course duration and an extension of time has been approved:

IFN201 Part-Time Masters Research (extension)

## ■ Master of Applied Science (Computing) (CS36)

**Location:** Gardens Point campus

**Course Duration:** 2 years full-time, 4 years part-time

**Total Credit Points:** 192

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Shlomo Gera

## Entry Requirements

Applicants are required to have completed a degree level course which contains a major component in computing or, alternatively, a degree course in any discipline area followed by a graduate diploma level course in computing. The minimum level of performance expected within prerequisite studies is a grade point average (GPA) of 4.50 on a 7 point scale (or its equivalent). Selection may be determined on an individual basis and is subject to the approval of the Head, School of Computing Science.

Students may be eligible for exemptions on the basis of equivalent units completed in earlier studies. Those students who have completed a suitable honours degree or who have completed a masters qualifying program may be exempted up to 96 credit points, ie, half of the total credit points of the course. The granting of any exemption is subject to the approval of the Head, School of Computing Science.

The course structure comprises core, project and elective unit components. The student intake is heterogeneous and some students may need to undertake advanced undergraduate units as prerequisites for core units. A maximum of 48 credit points from these undergraduate prerequisites may be credited towards completion of the course.

## Course Structure

### Core Units

| Credit Points | Contact Hrs/Wk |
|---------------|----------------|
|---------------|----------------|

The core component comprises six units (72 credit points) and for students with all necessary prerequisite qualifications these units are undertaken in the first four semesters of the part-time course. The six mandatory units are:

|        |                         |    |   |
|--------|-------------------------|----|---|
| CSN100 | Theory of Computing 1   | 12 | 3 |
| CSN110 | Compiler Construction   | 12 | 3 |
| CSN210 | Distributed Systems     | 12 | 3 |
| CSN220 | Artificial Intelligence | 12 | 3 |
| ISN100 | Information Systems 1   | 12 | 3 |
| ITN502 | Computer Security       | 12 | 3 |

## Project Units

The project component comprises four to six semester units (48 - 72 credit points) depending upon student choice. CSN450 (a two-semester project) must be included in this component.

|        |               |    |  |
|--------|---------------|----|--|
| CSN301 | Minor Project | 12 |  |
| CSN302 | Minor Project | 12 |  |
| CSN303 | Minor Project | 12 |  |
| CSN304 | Minor Project | 12 |  |
| CSN450 | Major Project | 24 |  |

## Elective Units

The number of elective units taken by an individual student depends upon the number of prerequisite units undertaken and the number of projects selected. A minimum of two elective units (24 credit points) must be selected and a maximum of six (72 credit points) may be selected. The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School.

### FIRST SEMESTER ELECTIVE UNITS

|        |                                   |    |   |
|--------|-----------------------------------|----|---|
| CSN340 | Compiler Laboratory               | 12 | 3 |
| CSN350 | Advanced Graphics 1               | 12 | 3 |
| CSN380 | Neural Networks – Library Science | 12 | 3 |
| ISN300 | Information Systems 2             | 12 | 3 |
| ITN519 | Advanced Data Communications      | 12 | 3 |

## SECOND SEMESTER ELECTIVE UNITS

|        |                                 |    |   |
|--------|---------------------------------|----|---|
| CSN300 | Theory of Computing 2           | 12 | 3 |
| CSN310 | Parallel Processing             | 12 | 3 |
| CSN360 | Advanced Graphics 2             | 12 | 3 |
| CSN370 | Special Topic – Library Science | 12 | 3 |

### Full-Time Course Structure

Full-time study programs should be discussed with the course coordinator. All such programs must be approved by the Head, School of Computing Science. Not all units are offered during the day. Full-time students may be required to attend a number of evening classes.

### Part-Time Course Structure Suggested Sequence

**Credit  
Points**      **Contact  
Hrs/Wk**

#### Year 1, Semester 1

|        |                     |    |   |
|--------|---------------------|----|---|
| CSN210 | Distributed Systems | 12 | 3 |
| ITN502 | Computer Security   | 12 | 3 |

#### Year 1, Semester 2

|        |                       |    |   |
|--------|-----------------------|----|---|
| CSN110 | Compiler Construction | 12 | 3 |
| ISN100 | Information Systems 1 | 12 | 3 |

#### Year 2, Semester 1

|        |  |          |        |
|--------|--|----------|--------|
| CSN220 | Artificial Intelligence<br>Elective Unit | 12<br>12 | 3<br>3 |
|--------|--|----------|--------|

#### Year 2, Semester 2

|        |  |          |        |
|--------|--|----------|--------|
| CSN100 | Theory of Computing 1<br>Elective Unit | 12<br>12 | 3<br>3 |
|--------|--|----------|--------|

#### Year 3, Semester 1

|        |                                |          |   |
|--------|--------------------------------|----------|---|
| CSN301 | Minor Project<br>Elective Unit | 12<br>12 | 3 |
|--------|--------------------------------|----------|---|

#### Year 3, Semester 2

|        |                                |          |   |
|--------|--------------------------------|----------|---|
| CSN302 | Minor Project<br>Elective Unit | 12<br>12 | 3 |
|--------|--------------------------------|----------|---|

#### Year 4, Semester 1

|        |                                 |          |   |
|--------|---------------------------------|----------|---|
| CSN450 | Major Project*<br>Elective Unit | 24<br>12 | 3 |
|--------|---------------------------------|----------|---|

#### Year 4, Semester 2

|  |               |    |   |
|--|---------------|----|---|
|  | Elective Unit | 12 | 3 |
|--|---------------|----|---|

**Note:** The four university participants in the Distributed Systems Technology Centre (QUT, Griffith University, Bond University and the University of Queensland) have agreed on a common content for a masters degree in distributed systems technology. It is possible to choose a course program and elective units in CS36 which conform with this common content. Students interested in this program should consult with the course coordinator. This program will include elective units taken at the other institutions.

\* Unit extends over two semesters.

# ■ Master of Information Technology (IS50)

**Location:** Gardens Point campus

**Course Duration:** 2 years full-time, or 4 years part-time

**Total Credit Points:** 192

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Ms Alison Anderson

## Entry Requirements

Applicants are required to have completed a degree level course which contains a major component in computing, or alternatively, a degree course in any discipline area followed by a graduate diploma level course in computing or library science. The minimum level of performance expected within prerequisite studies is a grade point average (GPA) of 5.00 on a 7 point grading scale (or its equivalent). Graduates of library science courses will have completed ISPI01 Data Design and Processing (or its equivalent) prior to registration in the course. Selection may be determined on an individual basis and is subject to the approval of the Head, School of Information Systems.

Students may be eligible for exemptions on the basis of equivalent units completed in earlier studies. Those students who have completed a suitable honours degree or who have completed a masters qualifying program may be exempted up to 96 credit points. The granting of any exemption is subject to the approval of the Head, School of Information Systems.

## Course Structure

The course structure comprises core, project and elective unit components. The student intake is heterogeneous and some students may need to undertake advanced undergraduate units which are prerequisites for core units. A maximum of 48 credit points from these undergraduate prerequisites may be credited towards completion of the course.

### Core Units

|  | <b>Credit Points</b> | <b>Contact Hrs/Wk</b> |
|--|----------------------|-----------------------|
|--|----------------------|-----------------------|

The core component comprises two units (24 credit points) and for students with all necessary prerequisite qualifications, these units are undertaken in the first semester of the course.

|        |  |    |   |
|--------|--|----|---|
| ISN200 | Major Issues in Information Technology | 12 | 3 |
| ISN201 | Research Methodology                   | 12 |   |

### Project Units

The project component comprises 48-96 credit points, depending upon student choice; ie. four minor projects (12 credit points each), one minor project per semester; or a major project (48 credit points), to be completed within the last two semesters of the full-time course or the last four semesters of the part-time course; or a dissertation (96 credit points), to be completed within the last two semesters of the full-time course or the last four semesters of the part-time course.

|        |               |    |  |
|--------|---------------|----|--|
| ISN301 | Minor Project | 12 |  |
| ISN302 | Minor Project | 12 |  |
| ISN303 | Minor Project | 12 |  |
| ISN304 | Minor Project | 12 |  |
|        | OR            |    |  |



**for full-time students:**

|        |               |    |
|--------|---------------|----|
| ISN401 | Major Project | 48 |
|        | OR            |    |
| ISN500 | Dissertation  | 96 |

**for part-time students:**

|        |               |    |
|--------|---------------|----|
| ITN296 | Major Project | 48 |
|        | OR            |    |
| ITN298 | Dissertation  | 96 |

**Elective Units**

The number of elective units taken by a student depends upon the number of prerequisite units undertaken and the number of project units selected. A minimum of six elective units (72 credit points) must be selected and a maximum of 10 (120 credit points) may be selected. The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School.

**FIRST SEMESTER ELECTIVE UNITS**

|        |   |    |   |
|--------|---|----|---|
| ISN110 | Formal Systems Specification              | 12 | 3 |
| ISN130 | Object-Oriented Systems                   | 12 | 3 |
| ISN170 | Special Studies                           | 12 | 3 |
| ISN180 | Human Computer Interface                  | 12 | 3 |
| ISN190 | Comparative Study of Information Agencies | 12 | 3 |
| ISN210 | Automated Systems Management              | 12 | 3 |
| ISN240 | Classification                            | 12 | 3 |
| ITN502 | Computer Security                         | 12 | 3 |
| ITN519 | Advanced Data Communications              | 12 | 3 |

**SECOND SEMESTER ELECTIVE UNITS**

|        |  |    |   |
|--------|--|----|---|
| ISN100 | Information Systems 1                              | 12 | 3 |
| ISN120 | Database Systems                                   | 12 | 3 |
| ISN160 | Knowledge-Based Systems                            | 12 | 3 |
| ISN170 | Special Studies                                    | 12 | 3 |
| ISN220 | Business Competitor Intelligence                   | 12 | 3 |
| ISN250 | The Information Industries                         | 12 | 3 |
| ISN260 | Evaluation of Information Services & Organisations | 12 | 3 |
| ISN270 | Social Impacts of Information Technology           | 12 | 3 |
| ISN280 | Organisations, Systems & Information               | 12 | 3 |
| ISN290 | Current Advances in Database Technology            | 12 | 3 |
| ITN550 | Computer Security Risk Modelling                   | 12 | 3 |

**Full-Time Course Structure**

Full-time study programs should be discussed with the course coordinator. All such programs must be approved by the Head, School of Information Systems. Not all units are offered during the day. Full-time students may be required to attend a number of evening classes.

**Part-Time Course Structure**

| <b>Sample Sequence:</b>   |  | <b>Credit Points</b> | <b>Contact Hrs/Wk</b> |
|---------------------------|--|----------------------|-----------------------|
| <b>Year 1, Semester 1</b> |  |                      |                       |
| ISN200                    | Major Issues in Information Technology | 12                   | 3                     |
| ISN201                    | Research Methodology                   | 12                   | 3                     |
| <b>Year 1, Semester 2</b> |  |                      |                       |
|                           | Elective Unit                          | 12                   | 3                     |
|                           | Elective Unit                          | 12                   | 3                     |

|                           |               |    |   |
|---------------------------|---------------|----|---|
| <b>Year 2, Semester 1</b> |               |    |   |
|                           | Elective Unit | 12 | 3 |
|                           | Elective Unit | 12 | 3 |
| <b>Year 2, Semester 2</b> |               |    |   |
|                           | Elective Unit | 12 | 3 |
|                           | Elective Unit | 12 | 3 |
| <b>Year 3, Semester 1</b> |               |    |   |
| ISN301                    | Minor Project | 12 |   |
|                           | Elective Unit | 12 | 3 |
| <b>Year 3, Semester 2</b> |               |    |   |
| ISN302                    | Minor Project | 12 |   |
|                           | Elective Unit | 12 | 3 |
| <b>Year 4, Semester 1</b> |               |    |   |
| ISN303                    | Minor Project | 12 |   |
|                           | Elective Unit | 12 | 3 |
| <b>Year 4, Semester 2</b> |               |    |   |
| ISN304                    | Minor Project | 12 |   |
|                           | Elective Unit | 12 | 3 |

## ■ Graduate Diploma in Business (Information Systems) (IS18)

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time, 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Hamish Bentley

### **Professional Recognition**

This course is accredited by the Australian Computer Society.

### **1993 Enrolments – Continuing Students Only**

There has been no intake into this course from 1992. Any continuing students must arrange a study program to complete their award with the course coordinator prior to enrolment.

## ■ Graduate Diploma in Commercial Computing (IS04)

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time, 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Alan Tickle

### Professional Recognition

This course is accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

### 1993 Enrolments – Continuing Students Only

There will be no intake into this course from 1993; it has been replaced by the Graduate Diploma in Information Systems (IS24).

### Part-Time Course Structure Continuing Students Only

|                           | Credit Points | Contact Hrs/Wk |
|---------------------------|---------------|----------------|
| <b>Year 2, Semester 1</b> |               |                |
| Elective Unit             | 12            | 3              |
| Elective Unit             | 12            | 3              |
| <b>Year 2, Semester 2</b> |               |                |
| Elective Unit             | 12            | 3              |
| Elective Unit             | 12            | 3              |

### Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School.

Elective units to the value of at least 48 credit points are to be chosen on the advice of the course coordinator, from units offered in the Bachelor of Information Technology (IT20).

## ■ Graduate Diploma in Computing Science (CS19)

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time, 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr John Hynd

### Entry Requirements

An applicant seeking admission into the Graduate Diploma in Computing Science is required to:

- (i) hold a degree or a three-year diploma in a discipline other than computing from a recognised tertiary institution; applicants with undergraduate degrees or diplomas which include significant studies in computing are not eligible for admission into the course;
- (ii) have completed, at a degree level, an introductory level programming unit using Pascal, Modula-2 or Ada (the equivalent of at least three hours per week for one semester). Applicants whose degrees have not included this unit must complete this unit as a visiting student before entering the course.

In addition, an introductory tertiary level unit in Mathematics is desirable.

## Professional Recognition

This course is accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

| Full-Time Course Structure |  | Credit Points | Contact Hrs/Wk |
|----------------------------|--|---------------|----------------|
| <b>Year 1, Semester 1</b>  |  |               |                |
| ITP201                     | Foundations of Information Modelling     | 12            | 3              |
| ITP411                     | Systems Architecture & Operating Systems | 12            | 3              |
| ITP412                     | Software Principles                      | 12            | 3              |
| ITP413                     | ADTS in a C/Unix Environment             | 12            | 3              |
| <b>Year 1, Semester 2</b>  |  |               |                |
| ITP460                     | Project                                  | 12            |                |
|                            | Elective Unit                            | 12            | 3              |
|                            | Elective Unit                            | 12            | 3              |
|                            | Elective Unit                            | 12            | 3              |

**Note: Not all units are offered during the day. Full-time students may be required to attend evening classes.**

| Part-Time Course Structure<br>Commencing Students Only |  | Credit Points | Contact Hrs/Wk |
|--|--|---------------|----------------|
| <b>Year 1, Semester 1</b>                              |  |               |                |
| ITP201   | Foundations of Information Modelling     | 12            | 3              |
| ITP412   | Software Principles                      | 12            | 3              |
| <b>Year 1, Semester 2</b>                              |  |               |                |
| ITP411   | Systems Architecture & Operating Systems | 12            | 3              |
| ITP413   | ADTS in a C/Unix Environment             | 12            | 3              |
| <b>Year 2, Semester 1</b>                              |  |               |                |
|  | Elective Unit                            | 12            | 3              |
|  | Elective Unit                            | 12            | 3              |
| <b>Year 2, Semester 2</b>                              |  |               |                |
| ITP460   | Project                                  | 12            |                |
|  | Elective Unit                            | 12            | 3              |

| Part-Time Course Structure<br>Continuing Students Only |                              | Credit Points | Contact Hrs/Wk |
|--|------------------------------|---------------|----------------|
| <b>Year 2, Semester 1</b>                              |                              |               |                |
|  | Elective Unit                | 12            | 3              |
|  | Elective Unit                | 12            | 3              |
| <b>Year 2, Semester 2</b>                              |                              |               |                |
| ITP413   | ADTS in a C/Unix Environment | 12            | 3              |
| ITP460   | Project                      | 12            |                |

## Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School. Elective units may be selected from the following list:

## FIRST SEMESTER ELECTIVE UNITS

|        |                                |    |   |
|--------|--------------------------------|----|---|
| ITB220 | Database Design                | 12 | 3 |
| ITB222 | Systems Analysis & Design 1    | 12 | 3 |
| ITB232 | Database Management            | 12 | 3 |
| ITB424 | Software Engineering           | 12 | 3 |
| ITB431 | Programming Language Paradigms | 12 | 3 |
| ITB441 | Graphics                       | 12 | 3 |
| ITB442 | Artificial Intelligence        | 12 | 3 |
| ITB448 | Object-Oriented Programming    | 12 | 3 |
| ITB520 | Data Communications            | 12 | 3 |
| ITP200 | Applications Programming       | 12 | 3 |
| ITP470 | Project                        | 12 |   |
| ITP480 | Project*                       | 12 |   |

## SECOND SEMESTER ELECTIVE UNITS

|        |                                 |    |   |
|--------|---------------------------------|----|---|
| ITB220 | Database Design                 | 12 | 3 |
| ITB224 | Systems Analysis & Design 2     | 12 | 3 |
| ITB232 | Database Management             | 12 | 3 |
| ITB440 | Languages & Language Processing | 12 | 3 |
| ITB443 | Systems Programming             | 12 | 3 |
| ITB520 | Data Communications             | 12 | 3 |
| ITB523 | Data Security                   | 12 | 3 |
| ITP480 | Project*                        | 12 |   |
| ITP481 | Project*                        | 24 |   |

\* A 24 credit point project may be undertaken across two semesters (ITP480 Project) or in one semester (ITP481 Project), subject to approval from the course coordinator. This Project, ITP480 or ITP481, replaces the core Project ITP460 and one 12 credit point elective unit.

## ■ Graduate Diploma in Information Systems (IS24)

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time, 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Alan Tickle

### Entry Requirements

An applicant seeking admission into the Graduate Diploma in Information Systems is required to:

- (i) hold a degree or a three-year diploma in a discipline other than computing from a recognised tertiary institution; applicants with undergraduate degrees or diplomas which include significant studies in computing are not eligible for admission to this course;
- (ii) have completed, at a degree level, an introductory unit in Pascal or some similar structured programming language (the equivalent of at least three hours per week for one semester). Applicants whose degrees have not included an introductory computing unit must complete this unit as a visiting student before entering the course.

## Professional Recognition

This course will be accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

| <b>Full-Time Course Structure</b> |                                      | <b>Credit Points</b> | <b>Contact Hrs/Wk</b> |
|-----------------------------------|--------------------------------------|----------------------|-----------------------|
| <b>Year 1, Semester 1</b>         |                                      |                      |                       |
| ITP200                            | Applications Programming             | 12                   | 3                     |
| ITP201                            | Foundations of Information Modelling | 12                   | 3                     |
| ITP202                            | Systems Analysis & Design            | 12                   | 3                     |
|                                   | Elective Unit                        | 12                   | 3                     |
| <b>Year 1, Semester 2</b>         |                                      |                      |                       |
| ITP203                            | Applications Development             | 12                   | 3                     |
|                                   | Elective Unit                        | 12                   | 3                     |
|                                   | Elective Unit                        | 12                   | 3                     |
|                                   | Elective Unit                        | 12                   | 3                     |
| <b>Part-Time Course Structure</b> |                                      | <b>Credit Points</b> | <b>Contact Hrs/Wk</b> |
| <b>Year 1, Semester 1</b>         |                                      |                      |                       |
| ITP200                            | Applications Programming             | 12                   | 3                     |
| ITP201                            | Foundations of Information Modelling | 12                   | 3                     |
| <b>Year 1, Semester 2</b>         |                                      |                      |                       |
| ITP202                            | Systems Analysis & Design            | 12                   | 3                     |
|                                   | Elective Unit                        | 12                   | 3                     |
| <b>Year 2, Semester 1</b>         |                                      |                      |                       |
|                                   | Elective Unit                        | 12                   | 3                     |
|                                   | Elective Unit                        | 12                   | 3                     |
| <b>Year 2, Semester 2</b>         |                                      |                      |                       |
| ITP203                            | Applications Development             | 12                   | 3                     |
|                                   | Elective Units                       | 12                   | 3                     |

## Elective Units

Elective units are to be chosen on the advice of the course coordinator from the units offered in the Bachelor of Information Technology (IT20).

## ■ Graduate Diploma in Library and Information Studies (IS25)

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time, 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Jeanne Owen

## Entry Requirements

To be eligible for admission to the Graduate Diploma in Library and Information Science, applicants are required to have a degree or a three-year diploma from a recognised tertiary institution in a discipline other than library science and to have successfully completed a degree level introductory computing unit (the equivalent of at least three hours per week for one semester). Applicants whose degrees have not included this introductory computing unit must complete this unit as a visiting student before entering the course.

## Professional Recognition

Graduates are eligible to become 'Associates' (ie. professional members) of the Australian Library and Information Association.

## Course Structure

Students continuing in the Graduate Diploma in Library Science (IS65) should note that only unit codes have changed; unit titles and content remain unchanged. Such students are therefore to enrol in the units they require to complete the course under the new codes.

### Full-Time Course Structure

|                   |                                      | <b>Credit Points</b> | <b>Contact Hrs/Wk</b> |
|-------------------|--------------------------------------|----------------------|-----------------------|
| <b>Semester 1</b> |                                      |                      |                       |
| ITP201            | Foundations of Information Modelling | 12                   | 3                     |
| ITP311            | Collection Building & Acquisitions   | 12                   | 3                     |
| ITP312            | Organisation of Knowledge            | 12                   | 3                     |
| ITP313            | Information Sources & Services       | 12                   | 3                     |
| <b>Semester 2</b> |                                      |                      |                       |
| ITP314            | Online Information Services          | 12                   | 3                     |
| ITP315            | Library Programs Management          | 12                   | 3                     |
| ITP316            | Field Experience                     | 4                    |                       |
|                   | Elective Unit                        | 12                   | 3                     |
|                   | Elective Unit                        | 8                    | 2                     |

### Part-Time Course Structure

|                           |                                      | <b>Credit Points</b> | <b>Contact Hrs/Wk</b> |
|---------------------------|--------------------------------------|----------------------|-----------------------|
| <b>Year 1, Semester 1</b> |                                      |                      |                       |
| ITP201                    | Foundations of Information Modelling | 12                   | 3                     |
| ITP311                    | Collection Building & Acquisitions   | 12                   | 3                     |
| <b>Year 1, Semester 2</b> |                                      |                      |                       |
| ITP314                    | Online Information Services          | 12                   | 3                     |
| ITP315                    | Library Programs Management          | 12                   | 3                     |
| <b>Year 2, Semester 1</b> |                                      |                      |                       |
| ITP312                    | Organisation of Knowledge            | 12                   | 3                     |
| ITP313                    | Information Sources & Services       | 12                   | 3                     |
| <b>Year 2, Semester 2</b> |                                      |                      |                       |
| ITP316                    | Field Experience                     | 4                    |                       |
|                           | Elective Unit                        | 12                   | 3                     |
|                           | Elective Unit                        | 8                    | 2                     |

## SECOND SEMESTER ELECTIVE UNITS

The offering of elective units depends on sufficient minimum enrolments in the unit and the availability of staff. Elective units may be chosen from the list below. Alternatively, students may choose from any of the units offered in the Graduate Diploma in Education (Teacher-Librarianship) subject to the approval of that course coordinator; or choose

units from the Information Management major in the Bachelor of Information Technology (IT20) on the advice of the course coordinator; or any other appropriate unit may be taken with the approval of the Head of School.

|        |                                    |    |   |
|--------|------------------------------------|----|---|
| ITP317 | Library Services to Young People   | 12 | 3 |
| ITP318 | Advanced Organisation of Knowledge | 12 | 3 |
| ITP319 | Government Documents               | 12 | 3 |
| ITP320 | Special Topic – Library Science    | 12 | 3 |
| ITP321 | Special Topic – Library Science    | 8  | 2 |
| ITP322 | Individual Study                   | 8  | 2 |
| ITP323 | Introduction to Records Management | 8  | 2 |
| ITP324 | Library Programs & Services        | 8  | 2 |

## ■ Graduate Diploma in Library Science (IS65)

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time, 2 years part-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Dr Jeanne Owen

### Course Structure

Students continuing in the Graduate Diploma in Library Science (IS65) should note that only unit codes have changed; unit titles and content remain unchanged. Such students are therefore to enrol in the units they require to complete the course under the new codes.

| <b>Part-Time Course Structure</b> |                                | <b>Credit</b> | <b>Contact</b> |
|-----------------------------------|--------------------------------|---------------|----------------|
| <b>Continuing Students Only</b>   |                                | <b>Points</b> | <b>Hrs/Wk</b>  |
| <b>Year 2, Semester 1</b>         |                                |               |                |
| ITP312                            | Organisation of Knowledge      | 12            | 3              |
| ITP313                            | Information Sources & Services | 12            | 3              |
| <b>Year 2, Semester 2</b>         |                                |               |                |
| ITP316                            | Field Experience               | 4             |                |
|                                   | Elective Unit                  | 12            | 3              |
|                                   | Elective Unit                  | 8             | 2              |

### SECOND SEMESTER ELECTIVE UNITS

The offering of elective units depends on sufficient minimum enrolments in the unit and the availability of staff. Elective units may be chosen from the list below. Alternatively, students may choose from any of the units offered in the Graduate Diploma in Education (Teacher-Librarianship) subject to the approval of that course coordinator; or choose units from the Information Management major in the Bachelor of Information Technology (IT20) on the advice of the course coordinator; or any other appropriate unit may be taken with the approval of the Head of School.

|        |                                    |    |   |
|--------|------------------------------------|----|---|
| ITP317 | Library Services to Young People   | 12 | 3 |
| ITP318 | Advanced Organisation of Knowledge | 12 | 3 |
| ITP319 | Government Documents               | 12 | 3 |
| ITP320 | Special Topic – Library Science    | 12 | 3 |
| ITP321 | Special Topic – Library Science    | 8  | 2 |
| ITP322 | Individual Study                   | 8  | 2 |
| ITP323 | Introduction to Records Management | 8  | 2 |
| ITP324 | Library Programs & Services        | 8  | 2 |



# ■ Bachelor of Applied Science (Computing) (Honours) (CS55)

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Shlomo Geva

## Entry Requirements

To be eligible for admission, students should have completed QUT's Bachelor of Applied Science – Computing or equivalent and should have attained a grade point average (GPA) of at least 5.0 on a 7 point scale (or its equivalent), including grades of at least credit in all units directly relevant to the proposed honours program. Application for admission should normally be made at the end of the final year of the pass degree, or within 18 months of completing that degree.

Applicants who do not satisfy the above conditions but who have demonstrated outstanding performance in only the final year of a degree, or whose application is based on other factors, including work experience or involvement in research, may be admitted at the discretion of the Dean.

## Full-Time Course Structure

| Full-Time Course Structure |                       | Credit Points | Contact Hrs/Wk |
|----------------------------|-----------------------|---------------|----------------|
| <b>Semester 1</b>          |                       |               |                |
| CSN202                     | Project*              | 24            |                |
| CSN210                     | Distributed Systems   | 12            | 3              |
| ITN502                     | Computer Security     | 12            | 3              |
|                            | Elective Unit         | 12            | 3              |
| <b>Semester 2</b>          |                       |               |                |
| CSN100                     | Theory of Computing 1 | 12            | 3              |
| CSN110                     | Compiler Construction | 12            | 3              |
|                            | Elective Unit         | 12            |                |

## Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to approval by the relevant Head of School.

One elective unit per semester is to be chosen from the following:

### FIRST SEMESTER ELECTIVE UNITS

|        |                                   |    |   |
|--------|-----------------------------------|----|---|
| CSN220 | Artificial Intelligence           | 12 | 3 |
| CSN340 | Compiler Laboratory               | 12 | 3 |
| CSN350 | Advanced Graphics 1               | 12 | 3 |
| CSN380 | Neural Networks - Library Science | 12 | 3 |
| ISN300 | Information Systems 2             | 12 | 3 |
| ITN519 | Advanced Data Communications      | 12 | 3 |

### SECOND SEMESTER ELECTIVE UNITS

|        |                       |    |   |
|--------|-----------------------|----|---|
| CSN300 | Theory of Computing 2 | 12 | 3 |
| CSN310 | Parallel Processing   | 12 | 3 |

\* Unit extends over two semesters.

|        |                                 |    |   |
|--------|---------------------------------|----|---|
| CSN370 | Special Topic - Library Science | 12 | 3 |
| ISN100 | Information Systems 1           | 12 | 3 |

## ■ Bachelor of Business (Computing) (Honours) (IS61)

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time

**Total Credit Points:** 96

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Ms Alison Anderson

### Entry Requirements

To be eligible for admission, students should have completed QUT's Bachelor of Business – Computing or equivalent and should have attained a grade point average (GPA) of at least 5.0 on a 7 point scale (or its equivalent), including grades of at least credit in all units directly relevant to the proposed honours program. Application for admission should normally be made at the end of the final year of the pass degree, or within 18 months of completing that degree.

Applicants who do not satisfy the above conditions but who have demonstrated outstanding performance in only the final year of a degree, or whose application is based on other factors, including work experience or involvement in research, may be admitted at the discretion of the Dean.

### Full-Time Course Structure

|                   |                              | <b>Credit Points</b> | <b>Contact Hrs/Wk</b> |
|-------------------|------------------------------|----------------------|-----------------------|
| <b>Semester 1</b> |                              |                      |                       |
| ISN110            | Formal Systems Specification | 12                   | 3                     |
| ISN201            | Research Methodology         | 12                   | 3                     |
| ITN502            | Computer Security            | 12                   | 3                     |
|                   | Elective Unit                | 12                   | 3                     |
| <b>Semester 2</b> |                              |                      |                       |
| ISN100            | Information Systems 1        | 12                   | 3                     |
| ISN120            | Database Systems             | 12                   | 3                     |
| ISN211            | Honours Project              | 12                   |                       |
|                   | Elective Unit                | 12                   | 3                     |

### Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to approval by the relevant Head of School.

Elective units may be chosen from the following:

#### FIRST SEMESTER ELECTIVE UNITS

|        |                         |    |   |
|--------|-------------------------|----|---|
| ISN130 | Object-Oriented Systems | 12 | 3 |
| ISN170 | Special Studies         | 12 | 3 |

#### SECOND SEMESTER ELECTIVE UNITS

|        |                                  |    |   |
|--------|----------------------------------|----|---|
| ISN160 | Knowledge-Based Systems          | 12 | 3 |
| ITN550 | Computer Security Risk Modelling | 12 | 3 |

or from:

- any Faculty of Information Technology masters unit
- any QUT Faculty of Business postgraduate unit
- any QUT Faculty of Business undergraduate unit from the fifth or sixth semester of a normal full-time course.

## ■ Bachelor of Information Technology (IT20)

**Location:** Gardens Point campus

**Course Duration:** 3 years full-time, 6 years part-time

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Mike Roggenkamp

### Professional Recognition

This course will be accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

### Course Structure

The course structure divides into three blocks of equal weight (ie. 96 credit points each). All students will undertake the Foundation Year of the course; this year makes up one block of the course (96 credit points).

At the end of this year, students will choose a Primary Major, in either Computing Science, Information Management or Information Systems. The Primary Major makes up the second block of the course and extends from the second to the third year; it is worth 96 credit points.

Students also choose the make-up of the third block of the course. They can undertake a secondary major (96 credit points); an extended major (48 credit points) with a minor (48 credit points); or two minors (48 credit points each). The third block also extends over the second and third year of the course.

### FOUNDATION YEAR

#### Full-Time Course Structure

|                           |  | Credit Points | Contact Hrs/Wk |
|---------------------------|--|---------------|----------------|
| <b>Year 1, Semester 1</b> |  |               |                |
| ITB101                    | Laboratory 1 (Computing Environments)  | 12            | 3              |
| ITB210                    | Formal Representation                  | 12            | 3              |
| ITB310                    | Information Management 1               | 12            | 3              |
| ITB410                    | Software Development 1                 | 12            | 3              |
| <b>Year 1, Semester 2</b> |  |               |                |
| BSB103                    | Business Communications & Applications | 12            | 3              |
| ITB102                    | Laboratory 2 (Computer Applications)   | 12            | 3              |
| ITB411                    | Software Development 2                 | 12            | 3              |
| ITB412                    | Technology of Information Systems      | 12            | 3              |

| <b>Part-Time Course Structure</b> |  | <b>Credit Points</b> | <b>Contact Hrs/Wk</b> |
|-----------------------------------|--|----------------------|-----------------------|
| <b>Year 1, Semester 1</b>         |  |                      |                       |
| ITB101                            | Laboratory 1 (Computing Environments)  | 12                   | 3                     |
| ITB210                            | Formal Representation                  | 12                   | 3                     |
| <b>Year 1, Semester 2</b>         |  |                      |                       |
| BSB103                            | Business Communications & Applications | 12                   | 3                     |
| ITB410                            | Software Development 1                 | 12                   | 3                     |
| <b>Year 2, Semester 1</b>         |  |                      |                       |
| ITB310                            | Information Management 1               | 12                   | 3                     |
| ITB412                            | Technology of Information Systems      | 12                   | 3                     |
| <b>Year 2, Semester 2</b>         |  |                      |                       |
| ITB102                            | Laboratory 2 (Computer Applications)   | 12                   | 3                     |
| ITB411                            | Software Development 2                 | 12                   | 3                     |

At the end of this Foundation Year, students choose a Primary Major, either in Computing Science, Information Management or Information Systems. Course structures for these Primary Majors, showing Primary Major and a sample third block, ie the Extended Major with one Minor, are given below.

### **Cooperative Education Program**

An optional one-year paid work experience is available to eligible students at the end of the second year of full-time study. Information on this Cooperative Education Program is given in the Faculty of Information Technology's section of the Handbook under Information for all Information Technology Students.

### **COMPUTING SCIENCE PRIMARY MAJOR**

**Coordinator:** to be announced

| <b>Full-Time Course Structure</b> |   | <b>Credit Points</b> | <b>Contact Hrs/Wk</b> |
|-----------------------------------|---|----------------------|-----------------------|
| <b>Year 2, Semester 1</b>         |   |                      |                       |
| ITB420                            | Computer Architecture                     | 12                   | 3                     |
| ITB421                            | Data Structures & Algorithms              | 12                   | 3                     |
| ITB422                            | Laboratory 3 (ADTS in a Unix environment) | 12                   | 3                     |
| ITB520                            | Data Communications                       | 12                   | 3                     |
| <b>Year 2, Semester 2</b>         |   |                      |                       |
| ITB423                            | Laboratory 4 (Software Development)       | 12                   | 3                     |
| ITB424                            | Software Engineering                      | 12                   | 3                     |
| ITB440                            | Languages & Language Processing#          | 12                   | 3                     |
|                                   | Minor Unit                                | 12                   | 3                     |
| <b>Year 3, Semester 1</b>         |   |                      |                       |
| ITB430                            | Concurrent Systems                        | 12                   | 3                     |
| ITB431                            | Programming Language Paradigms            | 12                   | 3                     |
|                                   | Elective Unit#                            | 12                   | 3                     |
|                                   | Minor Unit                                | 12                   | 3                     |
| <b>Year 3, Semester 2</b>         |   |                      |                       |
| ITB446                            | Project#                                  | 12                   |                       |
|                                   | Elective Unit#                            | 12                   | 3                     |
|                                   | Minor Unit                                | 12                   | 3                     |
|                                   | Minor Unit                                | 12                   | 3                     |

## Part-time Course Structure

### Year 3, Semester 1

|        |                     |    |   |
|--------|---------------------|----|---|
| ITB520 | Data Communications | 12 | 3 |
|        | Minor Unit          | 12 | 3 |

### Year 3, Semester 2

|        |   |    |   |
|--------|---|----|---|
| ITB421 | Data Structures & Algorithms              | 12 | 3 |
| ITB422 | Laboratory 3 (ADTS in a Unix environment) | 12 | 3 |

### Year 4, Semester 1

|        |                                  |    |   |
|--------|----------------------------------|----|---|
| ITB440 | Languages & Language Processing# | 12 | 3 |
|        | Minor Unit                       | 12 | 3 |

### Year 4, Semester 2

|        |                                |    |   |
|--------|--------------------------------|----|---|
| ITB420 | Computer Architecture          | 12 | 3 |
| ITB431 | Programming Language Paradigms | 12 | 3 |

### Year 5, Semester 1

|        |                                     |    |   |
|--------|-------------------------------------|----|---|
| ITB423 | Laboratory 4 (Software Development) | 12 | 3 |
| ITB424 | Software Engineering                | 12 | 3 |

### Year 5, Semester 2

|        |                    |    |   |
|--------|--------------------|----|---|
| ITB430 | Concurrent Systems | 12 | 3 |
|        | Minor Unit         | 12 | 3 |

### Year 6, Semester 1

|  |               |    |   |
|--|---------------|----|---|
|  | Minor Unit    | 12 | 3 |
|  | Elective Unit | 12 | 3 |

### Year 6, Semester 2

|        |               |    |   |
|--------|---------------|----|---|
| ITB446 | Project#      | 12 |   |
|        | Elective Unit | 12 | 3 |

# Denotes extended major units. These units can be replaced with another set of minors or these units and the minor units can be replaced with a secondary major. Possible minors are given at the end of this course section.

## PRE-HONOURS EXTENDED COMPUTING SCIENCE MAJOR

A pre-honours extended major will be available for selected students in the second semester of their second year of study, in place of the extended major. This extended major will prepare students for Honours and higher-level studies; it comprises the following units:

|        |                                 |    |   |
|--------|---------------------------------|----|---|
| ITB440 | Languages & Language Processing | 12 | 3 |
| ITB450 | Advanced Computer Architecture  | 12 | 3 |
| ITB452 | Project Work                    | 24 |   |

## Elective Units

The extended major is made up of two core units, ITB440 Languages and Language Processing and ITB446 Project, and two elective units chosen from the list below. The offering of any elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff.

## FIRST SEMESTER ELECTIVE UNITS

|        |                             |    |   |
|--------|-----------------------------|----|---|
| ITB441 | Graphics                    | 12 | 3 |
| ITB442 | Artificial Intelligence     | 12 | 3 |
| ITB443 | Systems Programming         | 12 | 3 |
| ITB444 | Special Studies 1           | 12 | 3 |
| ITB447 | Project                     | 12 |   |
| ITB448 | Object-Oriented Programming | 12 | 3 |
| ITB451 | Project*                    | 24 |   |

**SECOND SEMESTER ELECTIVE UNITS**

|        |                         |    |   |
|--------|-------------------------|----|---|
| ITB443 | Systems Programming     | 12 | 3 |
| ITB445 | Special Studies 2       | 12 | 3 |
| ITB449 | Expert Systems          | 12 | 3 |
| ITB451 | Project*                | 24 |   |
| ITB453 | Project*                | 24 |   |
| ITB523 | Data Security           | 12 | 3 |
| MAB172 | Quantitative Methods 1B | 12 | 3 |

\* A 24 credit point project may be undertaken across two semesters (ITB451 Project) or in one semester (ITB453 Project), subject to approval from the course coordinator. This Project, ITB451 or ITB453, replaces the core Project ITB446 in the extended major and one elective unit.

**INFORMATION MANAGEMENT PRIMARY MAJOR**

**Coordinator:** Mr Michael Middleton

**Full-Time Course Structure**

**Credit Points**      **Contact Hrs/Wk**

**Year 2, Semester 1**

|        |                                      |    |   |
|--------|--------------------------------------|----|---|
| ITB220 | Database Design                      | 12 | 3 |
| ITB320 | Laboratory 3 (Database Applications) | 12 | 3 |
| ITB321 | Systems Analysis                     | 12 | 3 |
| ITB322 | Information Resources                | 12 | 3 |

**Year 2, Semester 2**

|        |  |    |   |
|--------|--|----|---|
| ITB323 | Laboratory 4 (Information Support Methods) | 12 | 3 |
| ITB520 | Data Communications                        | 12 | 3 |
| SSB937 | Applied Cognitive Psychology#              | 12 | 3 |
|        | Minor Unit                                 | 12 | 3 |

**Year 3, Semester 1**

|        |   |    |   |
|--------|---|----|---|
| ITB330 | Information Issues & Values               | 12 | 3 |
| ITB331 | Information Management 2 (Analysis & Use) | 12 | 3 |
|        | Minor Unit                                | 12 | 3 |
|        | Minor Unit                                | 12 | 3 |

**Year 3, Semester 2**

|        |   |    |   |
|--------|---|----|---|
| ITB340 | Project#  | 12 |   |
| ITB341 | Information Management 3 (Strategy & Planning)# | 12 | 3 |
| MAB172 | Quantitative Methods 1B#                        | 12 | 3 |
|        | Minor unit                                      | 12 | 3 |

**Part-Time Course Structure**

**Credit Points**      **Contact Hrs/Wk**

**Year 3, Semester 1**

|        |                       |    |   |
|--------|-----------------------|----|---|
| ITB321 | Systems Analysis      | 12 | 3 |
| ITB322 | Information Resources | 12 | 3 |

**Year 3, Semester 2**

|        |                               |    |   |
|--------|-------------------------------|----|---|
| SSB937 | Applied Cognitive Psychology# | 12 | 3 |
|        | Minor Unit                    | 12 | 3 |

**Year 4, Semester 1**

|        |                                      |    |   |
|--------|--------------------------------------|----|---|
| ITB220 | Database Design                      | 12 | 3 |
| ITB320 | Laboratory 3 (Database Applications) | 12 | 3 |

**Year 4, Semester 2**

|        |  |    |   |
|--------|--|----|---|
| ITB323 | Laboratory 4 (Information Support Methods) | 12 | 3 |
| ITB520 | Data Communications                        | 12 | 3 |

### Year 5, Semester 1

|        |   |    |   |
|--------|---|----|---|
| ITB331 | Information Management 2 (Analysis & Use) | 12 | 3 |
|        | Minor Unit                                | 12 | 3 |

### Year 5, Semester 2

|        |                          |    |   |
|--------|--------------------------|----|---|
| MAB172 | Quantitative Methods 1B# | 12 | 3 |
|        | Minor Unit               | 12 | 3 |

### Year 6, Semester 1

|        |                             |    |   |
|--------|-----------------------------|----|---|
| ITB330 | Information Issues & Values | 12 | 3 |
|        | Minor Unit                  | 12 | 3 |

### Year 6, Semester 2

|        |   |    |   |
|--------|---|----|---|
| ITB340 | Project#  | 12 |   |
| ITB341 | Information Management 3 (Strategy & Planning)# | 12 | 3 |

# Denotes extended major units. These units can be replaced with another set of minors or these units and the minor units can be replaced with a secondary major.

### PRE-HONOURS EXTENDED INFORMATION MANAGEMENT MAJOR

A pre-honours extended major will be available for selected students in the second semester of their second year of study. This extended major will prepare students for Honours and higher-level studies; it comprises the following units:

|        |   |    |   |
|--------|---|----|---|
| ITB350 | Project H   | 12 |   |
| ITB351 | Information Management 3H (Strategy & Planning)         | 12 | 3 |
| ITB352 | Laboratory 4H (Information Support Method & Evaluation) | 12 | 3 |
| MAB272 | Research Methods  | 12 | 3 |

### INFORMATION SYSTEMS PRIMARY MAJOR

**Coordinator:** Associate Professor Alan Underwood

#### Full-Time Course Structure

**Credit Points**      **Contact Hrs/Wk**

#### Year 2, Semester 1

|        |                                       |    |   |
|--------|---------------------------------------|----|---|
| ITB220 | Database Design                       | 12 | 3 |
| ITB221 | Laboratory 3 (Commercial Programming) | 12 | 3 |
| ITB222 | Systems Analysis & Design 1           | 12 | 3 |
| ITB520 | Data Communications                   | 12 | 3 |

#### Year 2, Semester 2

|        |                                |    |   |
|--------|--------------------------------|----|---|
| ITB223 | Laboratory 4 (4GL Programming) | 12 | 3 |
| ITB224 | Systems Analysis & Design 2    | 12 | 3 |
|        | Elective Unit#                 | 12 | 3 |
|        | Minor unit                     | 12 | 3 |

#### Year 3, Semester 1

|        |                          |    |   |
|--------|--------------------------|----|---|
| ITB230 | Project                  | 12 |   |
|        | OR                       |    |   |
| ITB231 | Applications Development | 12 | 3 |
| ITB232 | Database Management      | 12 | 3 |
|        | Minor Unit               | 12 | 3 |
|        | Elective Unit#           | 12 | 3 |

#### Year 3, Semester 2

|        |                                 |    |   |
|--------|---------------------------------|----|---|
| ITB240 | Project#                        | 12 |   |
| ITB241 | Information Systems Management# | 12 | 3 |
|        | Minor Unit                      | 12 | 3 |
|        | Minor Unit                      | 12 | 3 |

## Part-Time Course Structure

### Year 3, Semester 1

|        |                             |    |   |
|--------|-----------------------------|----|---|
| ITB222 | Systems Analysis & Design 1 | 12 | 3 |
| ITB520 | Data Communications         | 12 | 3 |

### Year 3, Semester 2

|        |                                       |    |   |
|--------|---------------------------------------|----|---|
| ITB220 | Database Design                       | 12 | 3 |
| ITB221 | Laboratory 3 (Commercial Programming) | 12 | 3 |

### Year 4, Semester 1

|        |                             |    |   |
|--------|-----------------------------|----|---|
| ITB224 | Systems Analysis & Design 2 | 12 | 3 |
|        | Elective Unit#              | 12 | 3 |

### Year 4, Semester 2

|        |                                |    |   |
|--------|--------------------------------|----|---|
| ITB223 | Laboratory 4 (4GL Programming) | 12 | 3 |
|        | Minor Unit                     | 12 | 3 |

### Year 5, Semester 1

|        |                          |    |   |
|--------|--------------------------|----|---|
| ITB230 | Project                  | 12 |   |
|        | OR                       |    |   |
| ITB231 | Applications Development | 12 | 3 |
|        | Minor Unit               | 12 | 3 |

### Year 5, Semester 2

|        |                     |    |   |
|--------|---------------------|----|---|
| ITB232 | Database Management | 12 | 3 |
|        | Minor Unit          | 12 | 3 |

### Year 6, Semester 1

|        |                |    |   |
|--------|----------------|----|---|
| ITB240 | Project#       | 12 |   |
|        | Elective Unit# | 12 | 3 |

### Year 6, Semester 2

|        |                                 |    |   |
|--------|---------------------------------|----|---|
| ITB241 | Information Systems Management# | 12 | 3 |
|        | Minor Unit                      | 12 | 3 |

# Denotes extended major units. These units can be replaced with another set of minors or these units and the minor units can be replaced with a secondary major.

## PRE-HONOURS EXTENDED INFORMATION SYSTEMS MAJOR

A pre-honours extended major will be available for selected students in the second semester of their second year of study, in place of the extended major. This extended major will prepare students for Honours and higher-level studies; it comprises the following units:

|        |                                |    |   |
|--------|--------------------------------|----|---|
| ITB240 | Project                        | 12 |   |
| ITB241 | Information Systems Management | 12 | 3 |
| ITB246 | Unix and C                     | 12 | 3 |
| MAB272 | Research Methods               | 12 | 3 |

## Elective Units

The extended major is made up of two core units, ITB241 Information Systems Management and ITB240 Project, and two elective units chosen from the list below. The offering of any elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff.

### FIRST SEMESTER ELECTIVE UNITS

|        |                          |    |   |
|--------|--------------------------|----|---|
| ITB231 | Applications Development | 12 | 3 |
| ITB243 | Knowledge-Based Systems  | 12 | 3 |
| ITB244 | Special Topic            | 12 | 3 |
| ITB247 | Project*                 | 12 |   |



## SECOND SEMESTER ELECTIVE UNITS

|        |                          |    |   |
|--------|--------------------------|----|---|
| ITB242 | Decision Support Systems | 12 | 3 |
| ITB245 | Special Topic            | 12 | 3 |
| ITB246 | Unix and C               | 12 | 3 |
| ITB248 | Project*                 | 24 |   |
| ITB523 | Data Security            | 12 | 3 |
| MAB172 | Quantitative Methods 1B  | 12 | 3 |

\* A 24 credit point project may be undertaken across two semesters (ITB247 Project) or in one semester (ITB248 Project), subject to approval from the course coordinator. This Project, ITB247 or ITB248, replaces the core Project ITB240 in the extended major and one elective unit.

## EXAMPLES OF MINORS

### COMPUTING SCIENCE MINOR

(for Information Management major)

|        |   |    |   |
|--------|---|----|---|
| BSB102 | Management & Organisation               | 12 | 3 |
| ITB421 | Data Structures & Algorithms            | 12 | 3 |
| ITB422 | Laboratory 3 (ADTs in Unix environment) | 12 | 3 |
|        | Elective Unit (from Computing Science)  | 12 | 3 |

### COMPUTING SCIENCE MINOR

(for Information Systems major)

|        |  |    |   |
|--------|--|----|---|
| ITB421 | Data Structures & Algorithms   | 12 | 3 |
| ITB431 | Programming Language Paradigms   | 12 | 3 |
|        | Elective Units [minimum of 24 credit points]<br>(from Computing Science) |    |   |

### NETWORK MANAGEMENT MINOR

|        |  |    |   |
|--------|--|----|---|
| ITB521 | Computer Networks 1  | 12 | 3 |
| ITB524 | Corporate Communications Network Planning &<br>Management    | 12 | 3 |
| ITB526 | Data Communications Systems & Architectures<br>Elective Unit | 12 | 3 |

### INFORMATION MANAGEMENT MINOR

(for non-Information Management majors)

|        |  |    |   |
|--------|--|----|---|
| BSB102 | Management & Organisation                      | 12 | 3 |
| ITB331 | Information Management 2 (Analysis & Use)      | 12 | 3 |
| ITB341 | Information Management 3 (Strategy & Planning) | 12 | 3 |
| SSB937 | Applied Cognitive Psychology                   | 12 | 3 |

### INFORMATION SYSTEMS MINOR

(for Computing Science major)

|        |  |    |   |
|--------|--|----|---|
| ITB220 | Database Design  | 12 | 3 |
| ITB222 | Systems Analysis & Design 1  | 12 | 3 |
| ITB241 | Information Systems Management<br>Elective Unit (from Information Systems) | 12 | 3 |

### INFORMATION SYSTEMS MINOR

(for Information Management major)

|        |  |                |             |
|--------|--|----------------|-------------|
| BSB102 | Management & Organisation  | 12             | 3           |
| ITB242 | Decision Support Systems<br>Elective Unit (from Information Systems)<br>Elective Unit (from Information Systems) | 12<br>12<br>12 | 3<br>3<br>3 |

### ECONOMICS MINOR

|        |  |    |   |
|--------|--|----|---|
| BSB102 | Management & Organisation                | 12 | 3 |
| EPB124 | Government                               | 12 | 3 |
| EPB140 | Macroeconomics<br>OR                     | 12 | 3 |
| EPB150 | Microeconomics<br>Business Elective Unit | 12 | 3 |

|                                   |  |    |   |
|-----------------------------------|--|----|---|
| <b>INFORMATION SERVICES MINOR</b> |  |    |   |
| ITP311                            | Collection Building & Acquisitions                 | 12 | 3 |
| ITP315                            | Library Programs Management                        | 12 | 3 |
| ITP316                            | Field experience                                   | 4  |   |
|                                   | Elective Unit                                      | 12 |   |
|                                   | Elective Unit (from Library & Information Studies) | 8  |   |
| <b>PRODUCTION MINOR</b>           |  |    |   |
| BSB102                            | Management & Organisation                          | 12 | 3 |
| COB134                            | Speech Communication: Theory & Practice            | 12 | 3 |
|                                   | OR   |    |   |
| COB138                            | Written Communication: Theory & Practice           | 12 | 3 |
| MJB118                            | Fundamentals of Photography                        | 12 | 3 |
|                                   | OR   |    |   |
| MJB126                            | Video Production                                   | 12 | 3 |
|                                   | Business Elective Unit                             | 12 |   |
| <b>MANAGEMENT MINOR</b>           |  |    |   |
| BSB102                            | Management & Organisation                          | 12 | 3 |
| HRB131                            | Personnel Management & Industrial Relations        | 12 | 3 |
| MKB140                            | Marketing  | 12 | 3 |
|                                   | Business Elective Unit                             | 12 |   |

## ■ **Common First Year: Bachelor of Business (Computing), Bachelor of Applied Science (Computing) (IT32)**

**Location:** Gardens Point campus

**Course Duration:** 1 year full-time, 2 years part-time

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Robert Andrews

Continuing students in IT32 will be transferred into the Bachelor of Information Technology (IT20). To complete the equivalent of the first full-time year, students on normal progression will follow the course program given below.

| <b>Part-Time Course Structure<br/>Continuing Students Only</b> |                                      | <b>Credit<br/>Points</b> | <b>Contact<br/>Hrs/Wk</b> |
|--|--------------------------------------|--------------------------|---------------------------|
| <b>Year 2, Semester 1</b>                                      |                                      |                          |                           |
| COB160   | Professional Communication           | 12                       | 3                         |
| ITB412   | Technology of Information Systems    | 12                       | 3                         |
| <b>Year 2, Semester 2</b>                                      |                                      |                          |                           |
| ITB102   | Laboratory 2 (Computer Applications) | 12                       | 3                         |
| ITB411   | Software Development 2               | 12                       | 3                         |

## ■ Bachelor of Applied Science (Computing) (CS28)

**Location:** Gardens Point campus

**Course Duration:** 3 years full-time, 6 years part-time

**Total Credit Points:** 288 (includes 96 credit points from Common First Year)

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Mike Roggenkamp

### Professional Recognition

This course is accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

### Full-Time Course Structure Continuing Students Only

|                           |  | <b>Credit Points</b> | <b>Contact Hrs/Wk</b> |
|---------------------------|--|----------------------|-----------------------|
| <b>Year 3, Semester 1</b> |  |                      |                       |
| ITB424                    | Software Engineering                         | 12                   | 3                     |
| ITB430                    | Concurrent Systems                           | 12                   | 3                     |
|                           | Elective Units [minimum of 24 credit points] |                      |                       |

### Year 3, Semester 2

|        |  |    |   |
|--------|--|----|---|
| ITB446 | Project*                                     | 12 |   |
| ITB450 | Advanced Computer Architecture               | 12 | 3 |
|        | Elective Units [minimum of 24 credit points] |    |   |

### Part-Time Course Structure Continuing Students Only

|                           |   | <b>Credit Points</b> | <b>Contact Hrs/Wk</b> |
|---------------------------|---|----------------------|-----------------------|
| <b>Year 4, Semester 1</b> |   |                      |                       |
| ITB422                    | Laboratory 3 (ADTS in a Unix environment) | 12                   | 3                     |
| ITB440                    | Languages & Language Processing           | 12                   | 3                     |

### Year 4, Semester 2

|        |                                     |    |   |
|--------|-------------------------------------|----|---|
| ITB423 | Laboratory 4 (Software Development) | 12 | 3 |
| ITB431 | Programming Language Paradigms      | 12 | 3 |

### Year 5, Semester 1

|        |                      |    |   |
|--------|----------------------|----|---|
| ITB424 | Software Engineering | 12 | 3 |
|        | Elective Unit        | 12 | 3 |

### Year 5, Semester 2

|        |                    |    |   |
|--------|--------------------|----|---|
| ITB430 | Concurrent Systems | 12 | 3 |
|        | Elective Unit      | 12 | 3 |

### Year 6, Semester 1

|        |                                |    |   |
|--------|--------------------------------|----|---|
| ITB450 | Advanced Computer Architecture | 12 | 3 |
|        | Elective Unit                  | 12 | 3 |

### Year 6, Semester 2

|        |               |    |   |
|--------|---------------|----|---|
| ITB446 | Project*      | 12 |   |
|        | Elective Unit | 12 | 3 |

### Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolment in the unit and the availability of staff. The choice of all elective units is subject to approval by the relevant Head of School. A minimum of 48 credit points of elective units

must be chosen from the list below or from other offerings subject to approval by the course coordinator.

#### FIRST SEMESTER ELECTIVE UNITS

|        |                             |    |   |
|--------|-----------------------------|----|---|
| CSB350 | Miscellaneous Studies       | 3  | 1 |
| CSB360 | Miscellaneous Studies       | 6  | 2 |
| CSB370 | Miscellaneous Studies       | 9  | 3 |
| ITB441 | Graphics                    | 12 | 3 |
| ITB442 | Artificial Intelligence     | 12 | 3 |
| ITB443 | Systems Programming         | 12 | 3 |
| ITB444 | Special Studies 1           | 12 | 3 |
| ITB447 | Project                     | 12 |   |
| ITB448 | Object-Oriented Programming | 12 | 3 |
| ITB451 | Project*                    | 24 |   |

#### SECOND SEMESTER ELECTIVE UNITS

|        |                       |    |   |
|--------|-----------------------|----|---|
| CSB350 | Miscellaneous Studies | 3  | 1 |
| CSB360 | Miscellaneous Studies | 6  | 2 |
| CSB370 | Miscellaneous Studies | 9  | 3 |
| ITB443 | Systems Programming   | 12 | 3 |
| ITB445 | Special Studies 2     | 12 | 3 |
| ITB449 | Expert Systems        | 12 | 3 |
| ITB451 | Project*              | 24 |   |
| ITB453 | Project*              | 24 |   |
| ITB523 | Data Security         | 12 | 3 |

\*A 24 credit point project may be undertaken across two semesters (ITB451 Project) or in one semester (ITB453 Project), subject to approval from the course coordinator. This Project, ITB451 or ITB453, replaces the core Project ITB446 and one elective unit.

## ■ Bachelor of Applied Science (Computing) (IS28)

**Location:** Gardens Point campus

**Course Duration:** 3 years full-time, 6 years part-time

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Hamish Bentley

#### Professional Recognition

This course is accredited by the Australian Computer Society.

| <b>Full-Time Course Structure<br/>(For Continuing Students only)</b> |  | <b>Credit<br/>Points</b> | <b>Contact<br/>Hrs/Wk</b> |
|--|--|--------------------------|---------------------------|
| <b>Year 1, Semester 1</b>  |  |                          |                           |
| ITB101   | Laboratory 1 (Computing Environment)   | 12                       | 3                         |
| ITB210   | Formal Representation                  | 12                       | 3                         |
| ITB410   | Software Development 1                 | 12                       | 3                         |
| ITB520   | Data Communications                    | 12                       | 3                         |
| <b>Year 1, Semester 2</b>  |  |                          |                           |
| BSB103   | Business Communications & Applications | 12                       | 3                         |
| ITB102   | Laboratory 2 (Computer Applications)   | 12                       | 3                         |
| ITB411   | Software Development 2                 | 12                       | 3                         |
| ITB412   | Technology of Information Systems      | 12                       | 3                         |

**Year 2, Semester 1**

|        |                                       |    |   |
|--------|---------------------------------------|----|---|
| ITB220 | Database Design                       | 12 | 3 |
| ITB221 | Laboratory 3 (Commercial Programming) | 12 | 3 |
| ITB222 | Systems Analysis & Design 1           | 12 | 3 |
| ITB421 | Data Structures & Algorithms          | 12 | 3 |

**Year 2, Semester 2**

|        |                                |    |   |
|--------|--------------------------------|----|---|
| ITB223 | Laboratory 4 (4GL Programming) | 12 | 3 |
| ITB424 | Software Engineering           | 12 | 3 |
|        | Elective Unit                  | 12 | 3 |
|        | Elective Unit                  | 12 | 3 |

**Year 3, Semester 1**

|        |                          |    |   |
|--------|--------------------------|----|---|
| ITB230 | Project                  | 12 |   |
| ITB231 | Applications Development | 12 | 3 |
| ITB232 | Database Management      | 12 | 3 |
|        | Elective Unit            | 12 | 3 |

**Year 3, Semester 2**

|        |                                |    |   |
|--------|--------------------------------|----|---|
| ITB240 | Project                        | 12 |   |
|        | OR                             |    |   |
|        | Elective Unit                  | 12 | 3 |
| ITB241 | Information Systems Management | 12 | 3 |
|        | Elective Unit                  | 12 | 3 |
|        | Elective Unit                  | 12 | 3 |

**Part-Time Course Structure**

**Year 1, Semester 1**

|        |                                      |    |   |
|--------|--------------------------------------|----|---|
| ITB101 | Laboratory 1 (Computing Environment) | 12 | 3 |
| ITB210 | Formal Representation                | 12 | 3 |

**Year 1, Semester 2**

|        |  |    |   |
|--------|--|----|---|
| BSB103 | Business Communications & Applications | 12 | 3 |
| ITB102 | Laboratory 2 (Computer Applications)   | 12 | 3 |

**Year 2, Semester 1**

|        |                                   |    |   |
|--------|-----------------------------------|----|---|
| ITB412 | Technology of Information Systems | 12 | 3 |
| ITB520 | Data Communications               | 12 | 3 |

**Year 2, Semester 2**

|        |                        |    |   |
|--------|------------------------|----|---|
| ITB410 | Software Development 1 | 12 | 3 |
| ITB411 | Software Development 2 | 12 | 3 |

**Year 3, Semester 1**

|        |                             |    |   |
|--------|-----------------------------|----|---|
| ITB222 | Systems Analysis & Design 1 | 12 | 3 |
|        | Elective Unit               | 12 | 3 |

**Year 3, Semester 2**

|        |                                       |    |   |
|--------|---------------------------------------|----|---|
| ITB220 | Database Design                       | 12 | 3 |
| ITB221 | Laboratory 3 (Commercial Programming) | 12 | 3 |

**Year 4, Semester 1**

|        |                      |    |   |
|--------|----------------------|----|---|
| ITB424 | Software Engineering | 12 | 3 |
|        | Elective Unit        | 12 | 3 |

**Year 4, Semester 2**

|        |                                |    |   |
|--------|--------------------------------|----|---|
| ITB223 | Laboratory 4 (4GL Programming) | 12 | 3 |
| ITB421 | Data Structures & Algorithms   | 12 | 3 |

### Year 5, Semester 1

|        |                                |    |   |
|--------|--------------------------------|----|---|
| ITB230 | Project                        | 12 |   |
| ITB241 | Information Systems Management | 12 | 3 |

### Year 5, Semester 2

|        |                     |    |   |
|--------|---------------------|----|---|
| ITB232 | Database Management | 12 | 3 |
|        | Elective Unit       | 12 | 3 |

### Year 6, Semester 1

|        |                          |    |   |
|--------|--------------------------|----|---|
| ITB231 | Applications Development | 12 | 3 |
| ITB240 | Project                  | 12 |   |
|        | OR                       |    |   |
|        | Elective Unit            | 12 | 3 |

### Year 6, Semester 2

|  |               |    |   |
|--|---------------|----|---|
|  | Elective Unit | 12 | 3 |
|  | Elective Unit | 12 | 3 |

### Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School. Recommended elective units from the Bachelor of Information Technology (IT20) are:

#### FIRST SEMESTER ELECTIVE UNITS

|        |                         |    |   |
|--------|-------------------------|----|---|
| ITB243 | Knowledge-Based Systems | 12 | 3 |
| ITB244 | Special Topic 1         | 12 | 3 |
| ITB441 | Graphics                | 12 | 3 |
| ITB442 | Artificial Intelligence | 12 | 3 |
| ITB443 | Systems Programming     | 12 | 3 |
| ITB444 | Special Studies 1       | 12 | 3 |
| ITB445 | Special Studies 2       | 12 | 3 |

#### SECOND SEMESTER ELECTIVE UNITS

|        |                          |    |   |
|--------|--------------------------|----|---|
| ITB242 | Decision Support Systems | 12 | 3 |
| ITB245 | Special Topic 2          | 12 | 3 |
| ITB246 | Unix & C                 | 12 | 3 |
| ITB443 | Systems Programming      | 12 | 3 |
| ITB445 | Special Studies 2        | 12 | 3 |
| ITB449 | Expert Systems           | 12 | 3 |

## ■ Bachelor of Business (Computing) (IS10)

**Location:** Gardens Point campus

**Course Duration:** 3 years full-time, 6 years part-time

**Total Credit Points:** 288 (includes 96 credit points from Common First Year)

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Associate Professor Alan Underwood

### Professional Recognition

This course is accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

|                                   |               |                |
|-----------------------------------|---------------|----------------|
| <b>Full-Time Course Structure</b> | <b>Credit</b> | <b>Contact</b> |
| <b>Continuing Students Only</b>   | <b>Points</b> | <b>Hrs/Wk</b>  |

**Year 3, Semester 1**

|        |                                |    |   |
|--------|--------------------------------|----|---|
| ISP383 | Office Information Systems     | 12 | 3 |
| ITB220 | Database Design                | 12 | 3 |
| ITB234 | Project*                       | 24 |   |
| ITB241 | Information Systems Management | 12 | 3 |

**Year 3, Semester 2**

|        |                          |    |   |
|--------|--------------------------|----|---|
| ITB242 | Decision Support Systems | 12 | 3 |
| ITB243 | Knowledge-Based Systems  | 12 | 3 |
|        | Elective Unit            | 12 | 3 |

|                                   |               |                |
|-----------------------------------|---------------|----------------|
| <b>Part-Time Course Structure</b> | <b>Credit</b> | <b>Contact</b> |
| <b>Continuing Students Only</b>   | <b>Points</b> | <b>Hrs/Wk</b>  |

**Year 4, Semester 1**

|        |                          |    |   |
|--------|--------------------------|----|---|
| HRB404 | Principles of Management | 12 | 3 |
|        | Elective Unit            | 12 | 3 |

**Year 4, Semester 2**

|        |                             |    |   |
|--------|-----------------------------|----|---|
| ITB224 | Systems Analysis & Design 2 | 12 | 3 |
|        | Elective Unit               | 12 | 3 |

**Year 5, Semester 1**

|        |                            |    |   |
|--------|----------------------------|----|---|
| ISP383 | Office Information Systems | 12 | 3 |
| ITB242 | Decision Support Systems   | 12 | 3 |

**Year 5, Semester 2**

|        |                         |    |   |
|--------|-------------------------|----|---|
| ITB232 | Database Management     | 12 | 3 |
| ITB243 | Knowledge-Based Systems | 12 | 3 |

**Year 6, Semester 1**

|        |                                |    |   |
|--------|--------------------------------|----|---|
| ITB234 | Project*                       | 24 |   |
| ITB241 | Information Systems Management | 12 | 3 |

**Year 6, Semester 2**

|  |               |    |   |
|--|---------------|----|---|
|  | Elective Unit | 12 | 3 |
|--|---------------|----|---|

**Elective Units**

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School.

**FIRST SEMESTER ELECTIVE UNITS**

|        |                          |    |   |
|--------|--------------------------|----|---|
| ISB350 | Minor Studies            | 3  | 1 |
| ISB360 | Minor Studies            | 6  | 2 |
| ISB370 | Minor Studies            | 9  | 3 |
| ITB231 | Applications Development | 12 | 3 |
| ITB244 | Special Topic 1          | 12 | 3 |

or business elective units which may be chosen from degree courses offered by the Faculty of Business.

**SECOND SEMESTER ELECTIVE UNITS**

|        |               |   |   |
|--------|---------------|---|---|
| ISB350 | Minor Studies | 3 | 1 |
| ISB360 | Minor Studies | 6 | 2 |
| ISB370 | Minor Studies | 9 | 3 |

\* Unit extends over two semesters.



|        |                 |    |   |
|--------|-----------------|----|---|
| ITB245 | Special Topic 2 | 12 | 3 |
| ITB246 | Unix & C        | 12 | 3 |

or business elective units which may be chosen from degree courses offered by the Faculty of Business.

## ■ Bachelor of Business (Information Management) (IS43)

**Location:** Gardens Point campus

**Course Duration:** 3 years full-time, 6 years part-time

**Total Credit Points:** 288

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Michael Middleton

### Professional Recognition

This course is accredited by the Australian Computer Society as meeting the requirements associated with the grade of 'Member' of the Society.

### Full-Time Course Structure Continuing Students Only

#### Year 2, Semester 1

|        |                                      | Credit Points | Contact Hrs/Wk |
|--------|--------------------------------------|---------------|----------------|
| ITB220 | Database Design                      | 12            | 3              |
| ITB320 | Laboratory 3 (Database Applications) | 12            | 3              |
| ITB321 | Systems Analysis                     | 12            | 3              |
| ITB322 | Information Resources                | 12            | 3              |

#### Year 2, Semester 2

|        |  |    |   |
|--------|--|----|---|
| BSB102 | Management & Organisation                  | 12 | 3 |
| ITB323 | Laboratory 4 (Information Support Methods) | 12 | 3 |
| ITB520 | Data Communications                        | 12 | 3 |
| SSB937 | Applied Cognitive Psychology               | 12 | 3 |

#### Year 3, Semester 1

|        |   |    |   |
|--------|---|----|---|
| ITB242 | Decision Support Systems                  | 12 | 3 |
| ITB330 | Information Issues & Values               | 12 | 3 |
| ITB331 | Information Management 2 (Analysis & Use) | 12 | 3 |
|        | Elective Unit                             | 12 | 3 |

#### Year 3, Semester 2

|        |  |    |   |
|--------|--|----|---|
| ITB340 | Project  | 12 |   |
| ITB341 | Information Management 3 (Strategy & Planning) | 12 | 3 |
|        | Information Systems Elective Unit              | 12 | 3 |
|        | Elective Unit                                  | 12 | 3 |

### Part-Time Course Structure Continuing Students only

#### Year 2, Semester 1

|        |                                   |    |   |
|--------|-----------------------------------|----|---|
| ITB310 | Information Management            | 12 | 3 |
| ITB412 | Technology of Information Systems | 12 | 3 |

#### Year 2, Semester 2

|        |  |    |   |
|--------|--|----|---|
| BSB103 | Business Communications & Applications | 12 | 3 |
| ITB102 | Laboratory 2 (Computer Applications)   | 12 | 3 |



### Year 3, Semester 1

|        |                       |    |   |
|--------|-----------------------|----|---|
| ITB321 | Systems Analysis      | 12 | 3 |
| ITB322 | Information Resources | 12 | 3 |

### Year 3, Semester 2

|        |                              |    |   |
|--------|------------------------------|----|---|
| BSB102 | Management & Organisation    | 12 | 3 |
| SSB937 | Applied Cognitive Psychology | 12 | 3 |

### Year 4, Semester 1

|        |                                      |    |   |
|--------|--------------------------------------|----|---|
| ITB220 | Database Design                      | 12 | 3 |
| ITB320 | Laboratory 3 (Database Applications) | 12 | 3 |

### Year 4, Semester 2

|        |  |    |   |
|--------|--|----|---|
| ITB323 | Laboratory 4 (Information Support Methods) | 12 | 3 |
| ITB520 | Data Communications                        | 12 | 3 |

### Year 5, Semester 1

|        |   |    |   |
|--------|---|----|---|
| ITB242 | Decision Support Systems                                      | 12 | 3 |
| ITB331 | Information Management 2 (Analysis & Use)                     | 12 | 3 |
|        | OR  |    |   |
|        | Information Systems Elective Unit if ISB214 already completed | 12 | 3 |

### Year 5, Semester 2

|        |   |    |   |
|--------|---|----|---|
| MAB172 | Statistical Methods   | 12 | 3 |
|        | OR  |    |   |
|        | Information Systems Elective Unit if MAB172 already completed | 12 | 3 |
|        | Elective Unit   | 12 |   |

### Year 6, Semester 1

|        |                             |    |   |
|--------|-----------------------------|----|---|
| ITB330 | Information Issues & Values | 12 | 3 |
|        | Elective Unit               | 12 | 3 |

### Year 6, Semester 2

|        |  |    |   |
|--------|--|----|---|
| ITB340 | Project  | 12 |   |
| ITB341 | Information Management 3 (Strategy & Planning) | 12 | 3 |

### Elective Units

Information Systems elective units may be chosen from any undergraduate units offered in School of Information Systems courses, subject to prerequisites and approval.

General elective units may be chosen from any unit in a QUT degree course subject to prerequisites and approval. The offering of elective units in any semester depends upon sufficient minimum enrolments in the unit and the availability of staff. Recommended elective units are:

#### FIRST SEMESTER ELECTIVE UNITS

|        |                              |    |   |
|--------|------------------------------|----|---|
| AYB100 | Accounting for Managers      | 12 | 3 |
| COB144 | Literature and Communication | 12 | 3 |
| EPB150 | Microeconomics               | 12 | 3 |
| HRB126 | Management Processes         | 12 | 3 |
| ISB350 | Minor Studies                | 3  | 1 |
| ISB360 | Minor Studies                | 6  | 2 |
| ISB370 | Minor Studies                | 9  | 3 |
| MJB118 | Fundamentals of Photography  | 12 | 3 |
| MJB126 | Video Production             | 12 | 3 |
| MKB140 | Principles of Marketing      | 12 | 3 |

#### SECOND SEMESTER ELECTIVE UNITS

|        |   |    |   |
|--------|---|----|---|
| COB134 | Speech Communication: Theory & Practice | 12 | 3 |
| EPB124 | Government                              | 12 | 3 |

|        |   |    |   |
|--------|---|----|---|
| EPB140 | Macroeconomics                                | 12 | 3 |
| HRB126 | Management Processes                          | 12 | 3 |
| HRB131 | Personnel Management and Industrial Relations | 12 | 3 |
| ISB350 | Minor Studies                                 | 3  | 1 |
| ISB360 | Minor Studies                                 | 6  | 2 |
| ISB370 | Minor Studies                                 | 9  | 3 |
| MJB117 | Introduction to Audiovisual Communication     | 12 | 3 |
| MKB124 | Public Relations Principles                   | 12 | 3 |
| MKB140 | Principles of Marketing                       | 12 | 3 |

## ■ Associate Diploma in Business (Computing) (IS08)

**Location:** Gardens Point campus

**Course Duration:** 2 years full-time, 4 years part-time

**Total Credit Points:** 192

**Standard Credit Points/Full-Time Semester:** 48

**Course Coordinator:** Mr Hamish Bentley

### Professional Recognition

This course is accredited by the Australian Computer Society.

### Full-Time Course Structure Continuing Students Only

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 2, Semester 1

|        |   |    |   |
|--------|---|----|---|
| ISX029 | Microcomputers: Hardware & Applications | 12 | 3 |
| ISX031 | Software Development                    | 12 | 3 |
| ISX032 | Database Systems 1                      | 12 | 3 |
| ISX036 | Systems Design                          | 12 | 3 |

#### Year 2, Semester 2

|        |                    |    |   |
|--------|--------------------|----|---|
| CSX028 | Computer Languages | 12 | 3 |
| CSX030 | Computer Networks  | 12 | 3 |
| ISX033 | Database Systems 2 | 12 | 3 |
| ISX034 | Project            | 12 |   |
|        | OR                 |    |   |
|        | Elective Unit      | 12 |   |

### Part-Time Course Structure Continuing Students Only

**Credit  
Points**

**Contact  
Hrs/Wk**

#### Year 3, Semester 1

|        |   |    |   |
|--------|---|----|---|
| ISX029 | Microcomputers: Hardware & Applications | 12 | 3 |
| ISX032 | Database Systems 1                      | 12 | 3 |

#### Year 3, Semester 2

|        |                    |    |   |
|--------|--------------------|----|---|
| CSX028 | Computer Languages | 12 | 3 |
| ISX033 | Database Systems 2 | 12 | 3 |

#### Year 4, Semester 1

|        |                      |    |   |
|--------|----------------------|----|---|
| ISX031 | Software Development | 12 | 3 |
| ISX036 | Systems Design       | 12 | 3 |

#### Year 4, Semester 2

|        |                   |    |   |
|--------|-------------------|----|---|
| CSX030 | Computer Networks | 12 | 3 |
|--------|-------------------|----|---|

|        |               |    |   |
|--------|---------------|----|---|
| ISX034 | Project       | 12 |   |
|        | OR            |    |   |
|        | Elective Unit | 12 | 3 |

### Elective Units

The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff. The choice of all elective units is subject to the approval of the relevant Head of School. Recommended elective units will be advised by the course coordinator.

#### FIRST SEMESTER ELECTIVE UNITS

|        |                             |    |   |
|--------|-----------------------------|----|---|
| ITB441 | Graphics                    | 12 | 3 |
| ITB442 | Artificial Intelligence     | 12 | 3 |
| ITB443 | Systems Programming         | 12 | 3 |
| ITB444 | Special Studies 1           | 12 | 3 |
| ITB447 | Project                     | 12 |   |
| ITB448 | Object-Oriented Programming | 12 | 3 |
| ITB451 | Project*                    | 24 |   |

#### SECOND SEMESTER ELECTIVE UNITS

|        |                         |    |   |
|--------|-------------------------|----|---|
| ITB443 | Systems Programming     | 12 | 3 |
| ITB445 | Special Studies 2       | 12 | 3 |
| ITB449 | Expert Systems          | 12 | 3 |
| ITB453 | Project*                | 24 |   |
| ITB523 | Data Security           | 12 | 3 |
| MAB172 | Quantitative Methods 1B | 12 | 3 |

\* A 24 credit point project may be undertaken across two semesters (ITB247 Project) or in one semester (ITB248 Project), subject to approval from the course coordinator. This Project, ITB247 or ITB248, replaces the core Project ITB240 in the extended major and one elective unit.

