

# FACULTY OF INFORMATION TECHNOLOGY



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## Courses Offered

- **INN184 Master of Applied Science by Research & Thesis** (see page 16)
- **INN236 Master of Applied Science - Computing**
- **CSM219 Graduate Diploma in Computing Science**
- **ISM165 Graduate Diploma in Library Science**
- **ISM204 Graduate Diploma in Commercial Computing**
- **CSJ255 Bachelor of Applied Science - Computing (Honours)**
- **INJ232 Bachelor of Business - Computing and Bachelor of Applied Science - Computing (Common First Year)**
- **CSJ128 Bachelor of Applied Science - Computing**
- **IFJ222 Bachelor of Engineering/Bachelor of Applied Science - Electronics and Computing** (see page 22)
- **IFJ235 Bachelor of Business - Computing/Bachelor of Laws** (see page 27)
- **IFJ251 Bachelor of Applied Science - Surveying/Bachelor of Business - Information Management** (see page 31)
- **ISJ210 Bachelor of Business - Computing**
- **ISJ243 Bachelor of Business - Information Management**

## The Faculty

The technological developments of the last decade have produced a demand for professional workers in the information processing and information services sector which, it is expected, will continue to exceed supply in the foreseeable future.

This Faculty has developed an infrastructure of courses which has been successful in addressing the demand for information technology professionals in fields which range from senior management to high technology.

The Faculty is concerned with all aspects of information technology - from the study of computing and communications devices to the provision of information services. It is organised into two Schools, Computing Science and Information Systems. The special interests of the School of Computing Science include systems programming, language processing and computer communications, and the School has particular involvement in the promotion of the use of structured languages for systems programming tasks. The School of Information Systems' major areas of interest cover a wide range of applications

- from commercial-orientated computer-based information systems to the management of information, and librarianship/information services.

The Faculty also operates the Information Security Resource Centre which provides a consultancy, training, research and development service to industry, government and commerce in the areas of data and computer security.

Because it is anticipated that an increasing proportion of future graduates will be employed in a development - as opposed to an application - environment, the balance and content of the Faculty's course offerings is altering. These changes are reflected in the introduction of double degree courses, including the new surveying/information management program (commencing in 1990), two Honours programs (one commencing in 1990, the other in 1991), and the proposed introduction of a Masters in Information Technology (scheduled for 1991).

## Course Structures\*

### ■ INN236 Master of Applied Science - Computing

**Course Duration:** 4 semesters full-time, 8 semesters part-time

**Total Credit Points:** 192

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

**Course Co-ordinator:** Dr Gerry Finn

#### Entry Requirements

Registrants are required to have completed a degree level course which contains a major component in computing or, alternatively, a degree course and a graduate diploma level course in computing. The minimum level of performance expected within prerequisite studies is a GPA (grade point average) of 4.00 (or its equivalent) on a 7 point scale. Selection may be determined on an individual basis and subject to the approval of the Head of School.

#### Special Course Requirements

Registrants may be eligible for exemption of up to a maximum of 48 credit points on the basis of equivalent subjects completed in earlier studies other than Honours or Masters qualifying. Those registrants who have completed a suitable Honours degree or who have completed a Masters qualifying program may be exempted up to 96 credit points, i.e., half of the total credit points of the course, typically those subjects in years one and two. The granting of any exemption is subject to the approval of the Head of School.

The course structure comprises core, project and elective components. The student intake will be heterogeneous and some students may need to undertake advanced undergraduate subjects which are prerequisites for core subjects. A maximum of 48 credit points may be credited towards the requirements for completion of the course, which entail completion of 192 credit points.

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

\* See the Special Note relevant to all courses on page 216.

**Core Subjects**

		<b>Credit Contact</b>	<b>Points Hrs/Wk</b>
CSN100	Theory of Computing I	12	3
CSN110	Compiler Construction	12	3
CSN200	Computer Security	12	3
CSN210	Distributed Systems	12	3
CSN220	Artificial Intelligence	12	3
ISN100	Information Systems I	12	3

The project component comprises four to six semester subjects (48 - 72 credit points) depending upon student choice. At least one major (two-semester) project must be included in this component.

**Project Subjects**

INN200	Minor Project	12	3
INN301	Minor Project	12	3
INN302	Minor Project	12	3
INN303	Minor Project	12	3
INN400	Major Project - Part I (mandatory)	12	3
INN450	Major Project - Part II (mandatory)	12	3

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

**Advanced Electives**

CSN300	Theory of Computing II	12	3
CSN310	Parallel Processing	12	3
CSN320	Formal Secure Systems	12	3
CSN330	Natural Language Processing	12	3
CSN340	Compiler Laboratory	12	3
CSN350	Advanced Graphics I	12	3
CSN360	Advanced Graphics II	12	3
INN310	Advanced Data Communications	12	3
ISN300	Information Systems II	12	3

**Full-Time Course Structure**

Due to prerequisite limitations, the scheduling of subjects for full-time study programs needs to be negotiated with individual students. All such programs must be approved by the Dean of Faculty.

A typical sequence for the part-time program is outlined below.

**Part-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1 (Autumn)</b>			
CSN100	Theory of Computing I	12	3
CSN200	Computer Security	12	3
<b>Semester 2 (Spring)</b>			
CSN110	Compiler Construction	12	3
ISN100	Information Systems I	12	3
<b>Semester 3 (Autumn)</b>			
CSN210	Distributed Systems	12	3

	Elective	12	3
<b>Semester 4 (Spring)</b>			
CSN220	Artificial Intelligence	12	3
	Elective	12	3
<b>Semester 5 (Autumn)</b>			
INN300	Minor Project	12	3
	Elective	12	3
<b>Semester 6 (Spring)</b>			
INN301	Minor Project	12	3
	Elective	12	3
<b>Semester 7 (Autumn)</b>			
INN400	Major Project - Part I	12	3
	Elective	12	3
<b>Semester 8 (Spring)</b>			
INN450	Major Project - Part II	12	3
	Elective	12	3

Since there are no prerequisites between the core subjects offered in years one and two, these subjects may be offered in alternate years. The first two years in the above sequence may thus be taken in either order.

## ■ CSM219 Graduate Diploma in Computing Science

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

**Total Credit Points:** 96

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

**Course Co-ordinator:** Dr John Hynd

### Entry Requirements

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

- hold a degree (UGI) in a discipline other than computing\* from a recognised university or college of advanced education;
- have completed, within their degree studies, an introductory level subject in mathematics and Pascal programming (the equivalent of at least three hours per week for one semester in each).

Provision may be made for applicants whose degrees have not included introductory mathematics and/or computing to complete these subjects before entering the course. Such additional studies would be in subjects taken from existing degree courses.

### Special Course Requirements

Students in the Graduate Diploma in Computing Science may be granted exemption from a maximum of 12 credit points on the basis of their prior studies. Students who have been granted the maximum exemption will, therefore, be required to complete a minimum of 84 credit points in order to qualify for the award. Should such students have studied

*\* Applicants with undergraduate degrees which include major studies in computing will not be eligible for admission into the course.*

material similar to that included in any of the remaining prescribed subjects of the course, substitute subjects may be taken. All exemptions or substitutions shall be determined by the Head, School of Computing Science.

As part of the core of the course, all students must complete a project extending over one semester, approved and subsequently supervised by teaching staff from the Faculty of Information Technology. In addition, students will be permitted to undertake an extra project subject as an elective, but not in the same semester.

The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of all electives is subject to the approval of the relevant Head of School.

Students wishing to enrol in a full-time program should discuss choice of subjects with the Course Co-ordinator. Not all subjects are offered during the day. Full-time students may be required to attend evening classes.

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1 (Autumn)</b>			
CSP112	Software Principles	12	3
CSP213	Scientific Applications	12	3
ISP101	Data Design & Processing	12	3
INP270	Data Communications	12	3

<b>Semester 2 (Spring)</b>			
CSP211	Systems Architecture & Operating Systems	12	3
CSP214	Programming Languages & Structures	12	3
CSP960	Project Work	12	3
Elective(s) [minimum of 12 credit points]			

<b>Part-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1 (Autumn)</b>			
CSP112	Software Principles	12	3
ISP101	Data Design & Processing	12	3

<b>Semester 2 (Spring)</b>			
CSP211	Systems Architecture & Operating Systems	12	3
CSP214	Programming Languages & Structures	12	3

<b>Semester 3 (Autumn)</b>			
CSP213	Scientific Applications	12	3
INP270	Data Communications	12	3
OR			
Elective(s) [minimum of 12 credit points]			

<b>Semester 4 (Spring)</b>			
CSP960	Project Work	12	3
INP270	Data Communications	12	3
OR			
Elective(s) [minimum of 12 credit points]			

### **Electives**

Electives may be selected from the following list:

<b>COMPUTING SCIENCE SUBJECTS</b>			
CSB320	Special Studies	9	3
CSB321	Graphics	9	3

CSB323	Data Security	9	3
CSB324	Artificial Intelligence	9	3
CSB325	Expert Systems	9	3
CSB326	Systems Programming	9	3
CSB350	Miscellaneous Studies	3	1
CSP212	Languages & Language Processing	12	3
CSP970	Project Work A*	12	3
<b>INFORMATION SYSTEMS SUBJECTS</b>			
ISB283	Database & Procedural Languages	9	3
ISP301	Advanced Database	12	3
ISP383	Office Information Systems	12	3
ISP998	Special Topic in Commercial Computing	12	3

## ■ ISM165 Graduate Diploma in Library Science

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

**Total Credit Points:** 96

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

**Course Co-ordinator:** Dr. John Goodell

### Entry Requirements

To be eligible to register for courses leading to the Graduate Diploma in Library Science, applicants should hold a degree, other than in librarianship, from an Australian university or college of advanced education. Applicants who do not thus qualify for eligibility to register, but who present documentary evidence of their academic qualifications (e.g., a degree from an overseas university or a diploma (UG2 award) from an Australian College of Advanced Education or a diploma from a professional organisation) and have this evidence accepted by the Admissions Committee as having attained an equivalent standard, may be admitted to the course.

### Special Course Requirements

All subjects listed in the course necessitate the collection of data from sources off-campus. Students are required independently to carry out sufficient field trips to collect such data.

All students are required to complete satisfactorily a minimum of six weeks Field Experience, working under appropriately controlled conditions, in a library approved by the Head of School. Field experience may normally be divided into no more than two separate periods of three weeks apiece. For full-time students, part or all of the Field Experience may be gained during the University vacation or delayed until after the conclusion of coursework. Part-time students are normally expected to complete their fieldwork requirements during the University vacation, but if there are compelling reasons for doing so Field Experience may be delayed until after the conclusion of other coursework. All students who delay fieldwork must fulfil the total fieldwork period within six months of successfully completing all other course requirements. Credit will not normally be given for work experience for full-time students prior to the successful completion of the first semester's work, or for part-time students prior to successful completion of two semesters' work. Part-time students, working for salary in an approved library during their course period, whose work experience for at least the minimum six

\* *Not to be taken concurrently with CSP960 Project Work.*



weeks meets the required conditions of appropriate level and diversity, may receive fieldwork credit. Field experience arrangements for all students must be channelled through the Field Experience Co-ordinator in the School of Information Systems. Credit for this component of the course will be given only after completion of all fieldwork requirements.

The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of general electives is subject to approval by the Head of School.

<b>Full-Time Course Structure</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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**Semester 1 (Autumn)**

ISP410	Collection Building & Use I	8	2
ISP411	Information Storage & Retrieval I	8	2
ISP412	Information Users & Services I	8	2
ISP413	Information Agency Management & Services I	8	2
	Elective	12	3

**Semester 2 (Spring)**

ISP420	Collection Building & Use II	8	2
ISP421	Information Storage & Retrieval II	8	2
ISP422	Information Users & Services II	8	2
ISP423	Information Agency Management & Services II	8	2
ISP428	Field Experience	8	-
	Elective	12	3

<b>Part-Time Course Structure</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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**Semester 1 (Autumn)**

ISP411	Information Storage & Retrieval I	8	2
ISP412	Information Users & Services I	8	2

**Semester 2 (Spring)**

ISP421	Information Storage & Retrieval II	8	2
ISP422	Information Users & Services II	8	2

**Semester 3 (Autumn)**

ISP410	Collection Building & Use I	8	2
ISP413	Information Agency Management & Services I	8	2
	Elective	12	3

**Semester 4 (Spring)**

ISP420	Collection Building & Use II	8	2
ISP423	Information Agency Management & Services II	8	2
ISP428	Field Experience	8	-
	(unless previously completed)	8	-
	Elective	12	3

**Electives**

Electives may be chosen from the following, or any other approved subject.

**AUTUMN SEMESTER ELECTIVES**

CMB163	Introduction to Audio-visual Communication	12	3
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ISP418	Information & Referral Services	12	3
ISP419	Government Documents	12	3
<b>SPRING SEMESTER ELECTIVES</b>			
ISP414	Library Service to Young People	12	3
ISP427	Special Topic - Library Science	12	3

## ■ ISM204 Graduate Diploma in Commercial Computing

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

**Total Credit Points:** 96

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

**Course Co-ordinator:** Mr Alan Tickle

### Entry Requirements

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

- hold a degree or a diploma in a discipline other than computing\* from a recognised university or college of advanced education;
- have completed, at a degree level, an introductory subject in computing (the equivalent of at least three hours per week for one semester).

In the case where an applicant has a diploma, the Head of School may require the applicant to undertake additional work prior to admittance to the course.

Applicants who do not meet the requirements for normal entry may present documentary evidence of qualifications, experience and other relevant information for special consideration by the Admissions Committee. Such applications will be considered by the Admissions Committee in terms of overall academic achievement. Work experience and the requirements of the course may also be considered.

### Special Course Requirements

The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of all electives is subject to the approval of the relevant Head of School.

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1 (Autumn)</b>			
ISP100	The Computer System	12	3
ISP101	Data Design & Processing	12	3
ISP200	Systems Analysis & Design	12	3
INP270	Data Communications	12	3

### Semester 2 (Spring)

Electives [minimum of 48 credit points]

*\* Applicants with undergraduate degrees or diplomas which include major studies in computing will not be eligible for admission into the course.*

<b>Part-Time Course Structure</b>	<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
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**Semester 1 (Autumn)**

ISP100	The Computer System	12	3
ISP101	Data Design & Processing	12	3

**Semester 2 (Spring)**

ISP200	Systems Analysis & Design	12	3
INP270	Data Communications*	12	3

**Semester 3 (Autumn)**

Electives [minimum of 24 credit points]

**Semester 4 (Spring)**

Electives [minimum of 24 credit points]

**Electives**

Electives to the value of at least 48 credit points are to be chosen from the following, or from the offerings of the School of Computing Science or Faculty of Business.

**AUTUMN SEMESTER ELECTIVES**

ACP111	Accounting Principles I	12	3
ISP303	Programming	12	3
ISP113	Principles of Information Management	12	3
ISP381	Advanced Information Systems	12	3
ISP998	Special Topic - Commercial Computing	12	3

**SPRING SEMESTER ELECTIVES**

ACB360	Computer Security & Audit	12	3
ISP301	Advanced Database	12	3
ISP313	Expert Information Systems	12	3
ISP314	Information Systems Management	12	3
ISP400	Advanced Programming	12	3
ISP401	Computing Project	12	3
ISP383	Office Information Systems	12	3
ISP999	Special Topic - Commercial Computing	12	3

**■ CSJ255 Bachelor of Applied Science - Computing (Honours)**

**Course Duration:** 2 semesters full-time

**Total Credit Points:** 96

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

**Course Co-ordinator:** Dr Gerry Finn

**Entry Requirements**

Registrants are required to have completed QUT's Bachelor of Applied Science - Computing or its equivalent within fifteen months prior to the date of enrolment and must have attained a grade point average (GPA) of at least 5.0. Selection may be determined on an individual basis and is subject to the approval of the Head of School.

*\*INP270 Data Communications is a core subject which (for part-time students) may be taken in either Semester 2 or Semester 4. If not taken in Semester 2 an elective must be substituted.*

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

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1 (Autumn)</b>			
CSN100	Theory of Computing I	12	3
CSN200	Computer Security	12	3
CSN210	Distributed Systems	12	3
INN200	Research Methodology	12	3
<b>Semester 2 (Spring)</b>			
CSN110	Compiler Construction	12	3
INN210	Honours Project II	12	3
ISN100	Information Systems I	12	3
	Elective [minimum of 12 credit points]		

### **Electives**

One advanced elective chosen from the following:

CSN220	Artificial Intelligence	12	3
CSN300	Theory of Computing II	12	3
CSN310	Parallel Processing	12	3
CSN320	Formal Secure Systems	12	3
CSN330	Natural Language Processing	12	3
CSN340	Compiler Laboratory	12	3
CSN350	Advanced Graphics I	12	3
INN310	Advanced Data Communications	12	3
ISN300	Information Systems II	12	3

## **■ INJ232 Common First Year: Bachelor of Business - Computing/Bachelor of Applied Science - Computing**

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

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

**Course Co-ordinator:** Dr Jim White

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1 (Autumn)</b>			
CSB100	Introduction to Computer Science	9	3
INB100	Practice I (INJ232)	12	4
ISB101	Application Systems	9	3
ISB102	Representation of Information	9	3
MAB172	Quantitative Methods IB	9	3
<b>Semester 2 (Spring)</b>			
ACB181	Accounting Information Systems I	9	2
CMB104	Professional Communication	9	3
CSB101	Computer Systems I	9	3
CSB110	Programming Principles	9	3
INB150	Practice 2 (INJ232)	12	4

<b>Part-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1 (Autumn)</b>			
INB105	Practice 1A (INJ232)	6	2
ISB101	Application Systems	9	3
ISB102	Representation of Information	9	3
<b>Semester 2 (Spring)</b>			
CSB100	Introduction to Computer Science	9	3
CSB101	Computer Systems I	9	3
INB110	Practice 1B (INJ232)	6	2
<b>Semester 3 (Autumn)</b>			
ACB181	Accounting Information Systems I	9	2
INB155	Practice 2A (INJ232)	6	2
MAB172	Quantitative Methods IB	9	3
<b>Semester 4 (Spring)</b>			
CMB104	Professional Communication	9	3
CSB110	Programming Principles	9	3
INB160	Practice 2B (INJ232)	6	2

## ■ CSJ128 Bachelor of Applied Science - Computing

**Course Duration:** 6 semesters full-time, or 12 semesters part-time

**Total Credit Points:** 288

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

**Course Co-ordinator:** Mr Mike Roggenkamp

Entry into this course is dependent upon admission to and progression through the Common First Year (INJ232).

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

<b>Full-Time Course Structure</b>		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
<b>Semester 1 (Autumn)</b>			
CSB100	Introduction to Computer Science	9	3
INB100	Practice 1 (INJ232)	12	4
ISB101	Application Systems	9	3
ISB102	Representation of Information	9	3
MAB172	Quantitative Methods IB	9	3
<b>Semester 2 (Spring)</b>			
ACB181	Accounting Information Systems I	9	2
CMB104	Professional Communication	9	3
CSB101	Computer Systems I	9	3
CSB110	Programming Principles	9	3
INB150	Practice 2 (INJ232)	12	4
<b>Semester 3 (Autumn)</b>			
CSB200	Foundations of Computing I	9	3
CSB201	Computer Systems II	9	3

INB200	Practice 3 (CSJ128)	12	4
INB270	Data Communications	9	3
ISB202	Database & Procedural Languages	9	3

#### Semester 4 (Spring)

CSB210	Foundations of Computing II	9	3
CSB212	Languages & Language Processing	9	3
CSB213	Scientific Applications	9	3
INB250	Practice 4 (CSJ128)	12	4
ISB201	Information Systems Analysis & Design I	9	3

#### Semester 5 (Autumn)

CSB301	Operating Systems	9	3
CSB302	Software Engineering	9	3
INB300-1	Project Work	12	4
	Electives [minimum of 18 credit points]		

#### Semester 6 (Spring)

CSB311	Advanced Computer Architectures	9	3
INB300-2	Project Work	12	4
	Electives [minimum of 27 credit points]		

### Part-Time Course Structure

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

#### Semester 1 (Autumn)

INB105	Practice 1A (INJ232)	6	2
ISB101	Application Systems	9	3
ISB102	Representation of Information	9	3

#### Semester 2 (Spring)

CSB100	Introduction to Computer Science	9	3
CSB101	Computer Systems I	9	3
INB110	Practice 1B (INJ232)	6	2

#### Semester 3 (Autumn)

ACB181	Accounting Information Systems I	9	2
INB155	Practice 2A (INJ232)	6	2
MAB172	Quantitative Methods IB	9	3

#### Semester 4 (Spring)

CMB104	Professional Communication	9	3
CSB110	Programming Principles	9	3
INB160	Practice 2B (INJ232)	6	2

#### Semester 5 (Autumn)

CSB201	Computer Systems II	9	3
INB205	Practice 3A (CSJ128)	6	2
ISB201	Information Systems Analysis & Design I	9	3

#### Semester 6 (Spring)

CSB200	Foundations of Computing I	9	3
INB210	Practice 3B (CSJ128)	6	2
INB270	Data Communication	9	3

#### Semester 7 (Autumn)

CSB210	Foundations of Computing II	9	3
CSB213	Scientific Applications	9	3
INB255	Practice 4A (CSJ128)	6	2

#### Semester 8 (Spring)

CSB212	Languages & Language Processing	9	3
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INB260	Computing Practice 4 (CSJ128)	6	2
ISB202	Database & Procedural Languages	9	3
<b>Semester 9 (Autumn)</b>			
CSB302	Software Engineering Electives [minimum of 18 credit points]	9	3
<b>Semester 10 (Spring)</b>			
CSB301	Operating Systems Electives [minimum of 18 credit points]	9	3
<b>Semester 11 (Autumn)</b>			
CSB311	Advanced Computer Architecture	9	3
INB300-1	Project Work	12	4
<b>Semester 12 (Spring)</b>			
INB300-2	Project Work Elective [minimum of 9 credit points]	12	4

### Electives

Electives to a total of 45 credit points are chosen from the following, or, alternatively, other approved subjects may be selected.

#### COMPUTING SCIENCE SUBJECTS

CSB320	Special Studies	9	3
CSB321	Graphics	9	3
CSB323	Data Security	9	3
CSB324	Artificial Intelligence	9	3
CSB325	Expert Systems	9	3
CSB326	Systems Programming	9	3
INB280	Industrial Training Experience	12	-

#### INFORMATION SYSTEMS SUBJECTS

ISB210	Information Systems Analysis & Design II	9	3
ISB302	Database Management	9	3
ISB303	Office Information Systems	9	3

#### OTHER SUBJECTS

INB099	English for Academic Purposes*	9	3
MNB302	Management for Information Technologists	9	2
MNB091	Marketing	9	2

## ■ ISJ210 Bachelor of Business - Computing

**Course Duration:** 6 semesters full-time, or 12 semesters part-time

**Total Credit Points:** 288

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

**Course Co-ordinator:** Ms Alison Anderson

Entry into this course is dependent upon admission to and progression through the Common First Year (INJ232).

\* Subject to approval by the Dean of Faculty.

The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of all electives is subject to the approval of the relevant Head of School.

**Full-Time Course Structure** **Credit Points**      **Contact Hrs/Wk**

**Semester 1 (Autumn)**

CSB100	Introduction to Computer Science	9	3
INB100	Practice 1 (INJ232)	12	4
✓ ISB101	Application Systems	9	3
✓ ISB102	Representation of Information	9	3
✓ MAB172	Quantitative Methods IB	9	3

**Semester 2 (Spring)**

ACB181	Accounting Information Systems I	9	2
CMB104	Professional Communication	9	3
CSB101	Computer Systems I	9	3
CSB110	Programming Principles	9	3
INB150	Practice 2 (INJ232)	12	4

**Semester 3 (Autumn)**

✓ INB201	Practice 3 (ISJ210)	12	4
INB270	Data Communications	9	3
✓ ISB201	Information Systems Analysis & Design I	9	3
✓ ISB202	Database & Procedural Languages	9	3
MNB405	Management Science A	9	2

**Semester 4 (Spring)**

✓ ACB321	Managerial Accounting	12	4
INB251	Practice 4 (ISJ210)	12	4
✓ ISB210	Information Systems Analysis & Design II	9	3
MNB302	Management for Information Technologists	9	2
	General Elective [minimum of 9 credit points]		

**Semester 5 (Autumn)**

INB300-1	Project Work	12	4
✓ ISB301	Advanced Information Systems	9	3
✓ ISB302	Database Management	9	3
✓ ISB303	Office Information Systems	9	3
	Business Elective [minimum of 9 credit points]		

**Semester 6 (Spring)**

✓ INB300-2	Project Work	12	4
✓ ISB313	Expert Information Systems	9	3
✓ ISB314	Information Systems Management	9	3
	Business Electives [minimum of 15 credit points]		

**Part-Time Course Structure** **Credit Points**      **Contact Hrs/Wk**

**Semester 1 (Autumn)**

INB105	Practice 1A (INJ232)	6	2
ISB101	Application Systems	9	3
ISB102	Representation of Information	9	3

**Semester 2 (Spring)**

CSB100	Introduction to Computer Science	9	3
CSB101	Computer Systems I	9	3
INB110	Practice 1B (INJ232)	6	2

ACB111

21  
12  
12  
12



**Semester 3 (Autumn)**

ACB181	Accounting Information Systems I	9	2
INB155	Practice 2A (INJ232)	6	2
MAB172	Quantitative Methods IB	9	3

**Semester 4 (Spring)**

CMB104	Professional Communication	9	3
CSB110	Programming Principles	9	3
INB160	Practice 2B (INJ232)	6	2

**Semester 5 (Autumn)**

INB206	Practice 3A (ISJ210)	6	2
ISB201	Information Systems Analysis & Design I	9	3
MNB405	Management Science A	9	2

**Semester 6 (Spring)**

INB211	Practice 3B (ISJ210)	6	2
INB270	Data Communications	9	3
ISB202	Database & Procedural Languages	9	3

**Semester 7 (Autumn)**

INB256	Practice 4A (ISJ210)	6	2
ISB210	Information Systems Analysis & Design II	9	3
MNB302	Management for Information Technologists	9	2

**Semester 8 (Spring)**

ACB321	Managerial Accounting	12	4
INB261	Practice 4B (ISJ210)	6	2
	General Elective [minimum of 9 credit points]		

**Semester 9 (Autumn)**

ISB301	Advanced Information Systems	9	3
ISB302	Database Management	9	3
	Business Elective [minimum of 9 credit points]		

**Semester 10 (Spring)**

ISB303	Office Information Systems	9	3
ISB313	Expert Information Systems	9	3
ISB314	Information Systems Management	9	3

**Semester 11 (Autumn)**

INB300-1	Project Work	12	4
	Business Elective [minimum of 9 credit points]		

**Semester 12 (Spring)**

INB300-2	Project Work	12	4
	Business Elective [minimum of 6 credit points]		

**Electives**

Students may choose a general elective with a minimum of 9 credit points, and business electives with a minimum of 24 points. Business electives may be chosen from any subject in degree courses offered by the Faculty of Business subject to prerequisites and formal approval. Completion of the elective INB280 Industrial Training Experience would replace one business elective. General electives may be chosen from any subject in any QUT degree course subject to prerequisites and formal approval. Recommended electives are shown below:

**Full-Time Course Structure**

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>
ACB230	Financial Management I	12	4

ACB360	Computer Security & Audit	12	3
INB099	English for Academic Purposes*	9	3
INB280	Industrial Training Experience	12	-
ISB219	Advanced COBOL	9	3
ISB998	Special Topic - Business Computing	9	3
✓ ISB999	Special Topic - Business Computing	9	3
MNB091	Marketing	9	2
MNB151	Microeconomic Analysis	12	3
MNB181	Australian National Government B	12	3
MNB203	Management II	12	3

## ■ ISJ243 Bachelor of Business - Information Management

**Course Duration:** 6 semesters full-time, 12 semesters part-time

**Total Credit Points:** 288

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

**Course Co-ordinator:** Dr Jeanne Owen

The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of all electives is subject to the approval of the relevant Head of School.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
<b>Semester 1 (Autumn)</b>			
CSB100	Introduction to Computer Science	9	3
INB100	Practice 1 (INJ232)	12	4
ISB101	Application Systems	9	3
ISB102	Representation of Information	9	3
ISB113	Principles of Information Management	9	3
<b>Semester 2 (Spring)</b>			
ACB181	Accounting Information Systems I	9	2
CMB104	Professional Communication	9	3
CSB101	Computer Systems I	9	3
CSB110	Programming Principles	9	3
INB150	Practice 2 (INJ232)	12	4
<b>Semester 3 (Autumn)</b>			
INB202	Practice 3 (ISJ243)	12	4
ISB201	Information Systems Analysis & Design I	9	3
ISB203	Advanced Database	9	3
ISB215	External Sources of Information	9	3
MNB302	Management for Information Technologists	9	2
<b>Semester 4 (Spring)</b>			
INB252	Practice 4 (ISJ243)	12	4
INB270	Data Communications	9	3
ISB214	The Information Resource	9	3
LWS004	Information Managers & the Law	9	3
MNB413	Applied Cognitive Psychology	9	2
<b>Semester 5 (Autumn)</b>			
ISB216	Political & Social Aspects of Information Technology	9	3

\* Subject to approval by the Dean of Faculty.

ISB301	Advanced Information Systems	9	3
ISB303	Office Information Systems	9	3
MNB091	Marketing	9	2
MNB591	Economics of Information	9	2

### Semester 6 (Spring)

ISB305	Project	12	4
	OR		
INB280	Industrial Training Experience	12	-
ISB314	Information Systems Management	9	3
ISB316	Information Support Systems	9	3
ISB317	Special Topic - Information Management	9	3
	OR		
	General Elective [minimum of 12 credit points]		
ISB318	Strategic Information Management	9	3

### Part-Time Course Structure

**Credit  
Points**

**Contact  
Hrs/Wk**

### Semester 1 (Autumn)

INB105	Practice 1A (INJ232)	6	2
ISB102	Representation of Information	9	3
ISB113	Principles of Information Management	9	3

### Semester 2 (Spring)

CSB100	Introduction to Computer Science	9	3
CSB101	Computer Systems I	9	3
INB110	Practice 1B (INJ232)	6	2

### Semester 3 (Autumn)

ACB181	Accounting Information Systems I	9	2
INB155	Practice 2A (INJ232)	6	2
ISB101	Application Systems	9	3

### Semester 4 (Spring)

CMB104	Professional Communication	9	3
CSB110	Programming Principles	9	3
INB160	Practice 2B (INJ232)	6	2

### Semester 5 (Autumn)

INB207	Practice 3A (ISJ243)	6	2
ISB215	External Sources of Information	9	3
MNB302	Management for Information Technologists	9	2

### Semester 6 (Spring)

INB212	Practice 3B (ISJ243)	6	2
ISB214	The Information Resource	9	3
MNB413	Applied Cognitive Psychology	9	2

### Semester 7 (Autumn)

INB257	Practice 4A (ISJ243)	6	2
ISB201	Information Systems Analysis & Design I	9	3
ISB203	Advanced Database	9	3

### Semester 8 (Spring)

INB262	Practice 4B (ISJ243)	6	2
INB270	Data Communications	9	3
LWS004	Information Managers & the Law	9	3

### Semester 9 (Autumn)

ISB216	Political & Social Aspects of Information Technology	9	3
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ISB301	Advanced Information Systems	9	3
MNB591	Economics of Information	9	3

### Semester 10 (Spring)

ISB314	Information Systems Management	9	3
ISB316	Information Support Systems	9	3
ISB317	Special Topic - Information Management	9	3
	OR		
	General Elective [minimum of 12 credit points]		

### Semester 11 (Autumn)

ISB303	Office Information Systems	9	3
MNB091	Marketing	9	2

### Semester 12 (Spring)

ISB305	Project	12	4
	OR		
INB280	Industrial Training Experience	12	-
ISB318	Strategic Information Management	9	3

### Electives

General electives to the value of at least 12 credit points may be chosen from any subject in any QUT degree course subject to prerequisites and formal approval. One special offering which can be taken subject to the approval of the Dean of the Faculty is:

		Credit Points	Contact Hrs/Wk
INB099	English for Academic Purposes	9	3

## Information for all Information Technology Students

This information is relevant to all Faculty of Information courses.

- To qualify for graduation, students admitted to courses offered by the Faculty of Information Technology prior to 1990 should:
  - obtain a grade of at least 3 in all subjects specified for the award; and
  - obtain a Graduation Index of at least 3.9 (Graduation Index calculated as for Grade Point Average but counting only the best results for a repeated\* subject and ignoring all subjects for which the best result is a 2 or a 1).

Students who commence study towards a QUT award from Autumn Semester, 1990 (inclusive) are covered by Section 17 of the Policies, Procedures, Rules and Regulations for Students.

- Students undertaking courses in the Faculty of Information Technology should acquaint themselves with Faculty policy on assessment, deferred examinations, and plagiarism in programming assignments.
- Industrial Training Experience (Elective Subject INB280)

### Aims

The purpose of the industrial training period is to provide students with experience in a working environment prior to the study of the more advanced aspects of the course in which they are enrolled. This experience:

\* A student may repeat any subject in order to upgrade the result and hence increase the Graduation Index.

- (a) enables students to place concepts learnt in the first two years in context; and
- (b) enhances the benefits obtained from first year subjects.

The industrial training period necessarily involves re-orientation 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 Industrial Training option, students must have enrolled in the fourth semester (or equivalent) of their undergraduate degree, and either passed all subjects 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 Industrial Training option is offered under the guise of the subject INB280 and has the following features:

- (a) 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.
- (b) An academic member of staff normally visits the student once per semester and discusses progress with the student and a representative of the employer.
- (c) At the end of the twelve-month training period the student will write a report on the total training period, submit it to the employer for endorsement and comment, and then hand it to the course co-ordinator for assessment. The report should highlight different aspects of the period, and include comments and recommendations.
- (d) A pass in this module will be granted on the basis of:
  - satisfactory completion of an approved period of industrial training; and
  - submission of a satisfactory report on the year's experience. The report must be submitted not later than the commencement of the semester following the training period.
- (e) A salary is paid to the student by the employer during this training period.
- (f) The Faculty carefully monitors all industrial training 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.
- (g) Part-time students may apply for credit towards INB280 on the basis of their employment. Credit is 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:
  - a statement from the course co-ordinator that the arrangements have been discussed with the employer and that the proposed period of employment will provide appropriate work experience;
  - two annual visits by a member of academic staff to the student and employer; and
  - a satisfactory report, written by the student, endorsed by the employer and submitted no later than the commencement of the semester following the training period.

- (h) It is intended that full-time students on the scheme will devote their prime efforts to the industrial training module and will not, therefore, be permitted to register for more than one other subject per semester during the training year.

## Recognition by Professional Bodies

### Australian Computer Society

The following courses are accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society:

Bachelor of Applied Science - Computing

Bachelor of Business - Computing

Bachelor of Applied Science - Surveying/Bachelor of Business - Information Management

Bachelor of Business - Computing/Bachelor of Laws

Bachelor of Engineering/Bachelor of Applied Science - Electronics and Computing

Graduate Diploma in Commercial Computing

Graduate Diploma in Computing Science.

### Library Association of Australia

Graduates of the Graduate Diploma in Library Science are eligible to become 'Associates' (i.e., professional members) of the Library Association of Australia.

### Institute of Engineers, Australia

The Institute of Engineers, Australia has granted provisional recognition to the Bachelor of Engineering/Bachelor of Applied Science - Electronics and Computing. Accreditation for full recognition is due in 1991, subsequent to the initial graduations from the course.

### Queensland Surveyor's Board

The Bachelor of Applied Science - Surveying/Bachelor of Business - Information Management meets the requirements of the Queensland Surveyor's Board for registration as a surveyor, but not for licensing.

## General Information

### Telephone Numbers

Office of the Dean:	223 2782
Information Security Research Centre:	223 2846
Technical Services Section:	223 2533
A Block Laboratory:	223 2137
M Block Laboratory:	223 2146
School of Computing Science:	223 2132
School of Information Systems:	223 2639

### Staff

*Dean:* Professor D. Longley, BSc(Physics)(Hons)(Manch), MSc(Tech)(UMIST), PhD(Leic), CEng, FIEE, FAIM

*Faculty Administration Officer:* P.D. Moller, BSocWk(Qld)

*Secretary:* M. Sands

## Technical Services Section

*Technical Services Manager:* G. Low, BAppSc, ADipA(Mitchell),  
GradDipManagement(CIAE), MACS  
*Technologist:* T. Roggenkamp, BSc(Qld)  
*Laboratory Manager:* P. Anderson  
*Senior Computer Systems Officer:* M. Walmsley

## Information Security Research Centre

*Director:* W. Caelli, BSc(Hons)(Newcastle), PhD(ANU), FACS, MIEEE, MACM  
*Secretary:* A. Hamburger

## School of Computing Science

*Head:* Professor K.J. Gough, MSc PhD(Well), FNZEI, MIEEE, MACM, MACS  
*Academic Support Officer:* C. Murphy, BA(Qld)  
*Secretary:* M. Crimmin, AssocDipH&CServ(QAC), AssocDipSecStudies(BCAE)  
*Senior Lecturers:*

P.T.J. Cattell, DipEd BSc BEd DipCompSc(Qld), MSc(Essex), MACS  
G.M. Mohay, BSc(Hons)(WA), PhD(Monash), MACS, MACM, AIEEE  
J. Sitte, PhD(Uppsala), APS, INNS

### *Lecturers:*

K.F. Anderson, BSc(Hons)(S'clyde), DipEd(Dun), DipInfProc(Qld), MACS, MACM  
H.A. Bergen, BSc(Hons)(Massey), PhD(NSW), DipCompSc(Qld)  
R.J. Christie, BA DipCompSc(NE), DipTeach(NewcastleCAE)  
J.D. Day, BE(Hons)(Syd), GradDipCompSc MEngSc PhD(Qld), MACS, MACM  
L.J. Dunn, BA(UQ), MA(UWA), MLAS, MACM  
J. Holford, DipEd(Qld), BAppSc(Physics) GradDipCompSc(QIT), CEG  
G.D. Finn, BSc(Hons) PhD(Qld), MS(Hawaii)  
J.R. Hynd, BSc(Hons)(Qld), PhD(Syd), MACS, MACM  
G. Low, BAppSc, ADipA(Mitchell), GradDipManagement(CIAE), MACS  
M.G. Roggenkamp, BEd(James Cook), DipCompSc MScSt(Qld), MACS, MACM,  
AIEEE

A. Rosel, BEng(Rheinland), IEAust

### *Tutors:*

A. O'Hagan, BSc(Qld), MACS; A. Rhodes, BAppSc(QIT); R. Thomas, BSc(Trinity  
Western), APDA

## School of Information Systems

*Acting Head:* Associate Professor B.A. Underwood, MS(MIS)(TexasTech),  
MBA(Qld), BBus, MACS

*Academic Support Officer:* M. McDowell, BA(Qld), BSc(SocSc)(Hons) (Bristol)

*Secretary:* G. Hughes

*Principal Lecturer:* J.C. Owen, BA(Hons)(Lond), MA, PhD(Qld), AdvCertLibSci,  
MLS(Pitts), ALIA

### *Senior Lecturers:*

A. Anderson, BSc MInfSys(Qld), MACS  
B.F. Carroll, BA(Carleton), MLS(W Ontario)  
R.W. Smyth, BA(Qld), MSc(Aston), DipEd DipInfProc(Qld), MACS, AISA  
A.B. Tickle, BSc DipCompSci MSc(Qld), GradDipManagement(CIAE), MACS

### *Lecturers:*

P. Bancroft, BSc MScSt(Qld), GradDipComComp(QIT)  
D. Edmond, BSc(Hons)(Edin)  
S. Geva, BSc(Hebrew), GradDipComComp(QIT), MApSc(QUT)

J.S. Goodell, BA(Lafayette Coll), MS AdvMLS PhD(Florida State), AAIM, ARMA  
K. Ling, BSc(Melb), GradDipDP (Caulfield), GMIEA, MACS  
J. Reye, BSc(Hons) (Qld), MIEE, MACS, MACM  
M. Sandow-Quirk, BA(Hons)(Melb), MLib(Monash), GradDipLibSc(RMIT), ALIA  
C. Tilley, BA(Hons) MA(Qld), DipContEd(NE), GradDipLibSc(QIT), AILA, AAIM,  
IIMC  
J.J. White, BA MA MLS(W Ontario), PhD(Qld), MACS  
C.S. Willie, BA(Utah), MBA(Br Col), AUUG, BRISBUG

## **Prizes and Awards**

### **Australian Computer Society Incorporated Prizes**

Awarded annually to the most outstanding graduate in the Bachelor of Applied Science - Computing; and the most outstanding graduate in the Bachelor of Business - Computing.

### **BHA Computer Prize**

Awarded annually to the Bachelor of Applied Science - Computing student with the most outstanding performance in the subjects Computer Systems II and Advanced Computer Architecture.

### **Britannica Reference Award**

Awarded to the student completing the Graduate Diploma in Library Science who takes the subjects Information Users and Services I and Information Users and Services II for the first time, and achieves the highest aggregate marks in those subjects.

### **Data #3 Professional Services Pty Ltd Prize**

Awarded to the most outstanding student in the Bachelor of Business - Computing.

### **DMR Datec Prizes**

Awarded annually to the most outstanding graduate from the Bachelor of Applied Science - Computing and Bachelor of Business - Computing; and the student enrolled in either the Bachelor of Applied Science - Computing or Bachelor of Business - Computing demonstrating the greatest proficiency in the subject Project Work.

### **IBM Prizes of Excellence**

Donated annually by IBM Australia Ltd and awarded for excellence shown by a student of the Graduate Diploma in Commercial Computing course.

### **Library Association of Australia, Queensland Branch Prize**

Awarded to the part-time student who completes the Graduate Diploma in Library Science within the time period appropriate for normal progression, and achieves the highest aggregate marks in the course.

### **Library Board of Queensland Merit Award**

Awarded to the full-time student who completes the Graduate Diploma in Library Science within the time period appropriate for normal progression, and achieves the highest aggregate marks in the course.

### **NCR Australia Pty Ltd Prize**

Awarded to the Bachelor of Business student who takes the subject Information Systems Management for the first time and obtains the highest pass in the subject at the semester examinations.

### **Queensland Online Users Group/Orbit Prizes**

Awarded to the two students who perform best in the On-line Information Retrieval subject within the Graduate Diploma in Library Science.