



The University of Southern Queensland

## Course specification

<b>Description: Information System Concepts</b>						
Subject	Cat-nbr	Class	Term	Mode	Units	Campus
CIS	1000	50473	1, 2006	ONC	1.00	Toowoomba

<b>Academic group:</b>	FOBUS
<b>Academic org:</b>	FOB005
<b>Student contribution band:</b>	2
<b>ASCED code:</b>	029999

### STAFFING

Examiner: Rohan Genrich

Moderator: Peter Byrnes

### RATIONALE

Education in business computer concepts is critical for workers in every discipline. Today, computer systems are used for business processes from communications to order processing to customer support and in business functions ranging from marketing to human resources to accounting and finance. Chances are, regardless of the occupation, students will need to have an understanding of what business computing systems can and cannot do and be able to suggest new uses for business computing systems and participate in the design of solutions to business problems employing business computing systems.

### SYNOPSIS

The aim of this course is to offer the traditional coverage of computer concepts, but through placing the content within the context of business and information systems, to enable students to effectively apply business computing systems as support tools within their study programme and profession. The course will explore fundamental concepts including: how business computing systems are involved in organisations; hardware and software usage within businesses; telecommunications and internet technologies, including intranets, extranets, and e-commerce; specialised business computing systems, including artificial intelligence, expert systems, and virtual reality; systems development; and security, privacy, and ethical issues. In addition, students will be exposed to a range of business computing applications and tasks including report writing, business analytical spreadsheet usage, database manipulation and report generation, and web development using HTML code.

### OBJECTIVES

On successful completion of this course students will be able to:

1. understand basic computing terminology;
2. understand the importance of and differences between information and computer literacy;

3. understand and proficiently utilise different types of applications software (especially gaining proficiency in utilising Word Processors, Spreadsheets, Databases, Web Authoring and Presentation applications), their usage, uses, and users;
4. understand the basic components of the system unit and the way that they interact to form a single computing system;
5. understand the different types of hardware devices (input, output and storage), their usage, uses, and users;
6. understand the basic concepts of operating systems;
7. understand computer-based communications and networking concepts;
8. understand the basic concepts surrounding databases, database management systems, and understand the need for information management;
9. understand the processes involved in information system and program development;
10. understand the concepts surrounding the Internet, e-Commerce/e-Business activities, and associated Web programming tools;
11. understand the social impact of information technology; and
12. understand the need for security, privacy and ethical implications in information systems usage.

## TOPICS

	Description	Weighting (%)
1.	Introduction to Using Computers	3.00
2.	Application Software, Operating Systems, and Utilities Programs	6.00
3.	Computer System Components and Peripherals (System Unit, Input, Output and Storage)	6.00
4.	Communications and Networks	6.00
5.	The Internet and e-Commerce	9.00
6.	Databases and Information Management	9.00
7.	Information Systems Development	9.00
8.	Programming Development and Computer Careers	6.00
9.	Social and Ethical Usage of Computing	6.00
10.	Using Applications Software - Word Processors, Spreadsheets, Databases, Web Authoring and Presentation Applications	40.00

## TEXT and MATERIALS required to be PURCHASED or ACCESSED

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at <http://bookshop.usq.edu.au> click 'Semester', then enter your 'Course Code' (no spaces).

Software to be purchased or accessed: Microsoft Office XP Professional OR Microsoft Office 2003 Professional.

CIS1000 study package available from the USQ Bookshop.

Storage media to be purchased or accessed: At least 256 MB USB 2.0 Drive, preferably 512 MB or larger for storage and backup of course work and assessment items.

Brady, JA & Monk, EF 2005, *Problem-solving cases in Microsoft Access and Excel*, 3rd edn, Thomson Course Technology, Boston, Massachusetts.

Reding, EE & Vodnik, S 2001, *HTML illustrated introduction*, 2nd edn, Course Technology, USA.

Stair, RM & Reynolds, GW 2006, *Fundamentals of information systems*, 3rd edn, Thomson Course Technology, Boston, Massachusetts.

Summers, J & Smith, B 2006, *Communication skills handbook: how to succeed in written and oral communication*, 2nd edn, John Wiley & Sons, Milton, Queensland.

## REFERENCE MATERIALS

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

Benson, S & Standing, C 2002, *Information systems: a business approach*, John Wiley & Sons, Milton, Queensland.

Grauer, RT & Barber, M 2003, *Exploring Microsoft Office 2003 professional*, Prentice Hall, Upper Saddle River, New Jersey.

(volume 1)

Jessup, L & Valacich, J 2003, *Information systems today*, Prentice Hall, Upper Saddle River, New Jersey.

Laudon, KC & Laudon, JP 2005, *Essentials of management information systems: managing the digital firm*, 6th edn, Prentice Hall, Upper Saddle River, New Jersey.

Luftman, JN, Bullen, CV, Liao, D, Nash, E & Neumann, C 2004, *Managing the information technology resource: leadership in the information age*, Pearson Education, Upper Saddle River, New Jersey.

Malaga, RA 2005, *Information systems technology*, Pearson Education, Upper Saddle River, New Jersey.

McLeod, R Jnr & Schell, GP 2004, *Management information systems*, 9th edn, Pearson Education, Upper Saddle River, New Jersey.

O'Brien, JA 2004, *Management information systems: managing information technology in the e-business enterprise*, 6th edn, McGraw-Hill/Irwin, Boston, Massachusetts.

O'Brien, JA 2005, *Introduction to information systems*, 12th edn, McGraw-Hill/Irwin, New York.

O'Brien, JA 2003, *Introduction to information systems: essentials for the e-business enterprise*, 11th edn, McGraw-Hill/Irwin, New York.

(international edition)

Oz, E 2002, *Management information systems*, 3rd edn, Course Technology, Cambridge, Massachusetts.

Senn, JA 2004, *Information technology: principles, practices, opportunities*, 3rd edn, Prentice Hall, Upper Saddle River, New Jersey.

(international edition)

Shelly, GB, Cashman, TJ, Vermaat, ME, Sebok, SL & Wells, DJ 2002, *Discovering computers 2003: concepts for a digital world*, Course Technology, Boston, Massachusetts.

Stair, RM & Reynolds, GW 2003, *Principles of information systems: a managerial approach*, 6th edn, Course Technology, Boston, Massachusetts.

Turban, E, Kelly Rainer, R Jnr & Potter, R 2005, *Introduction to information technology*, 3rd edn, John Wiley & Son, Hoboken, New Jersey.

## STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Laboratory or Practical Classes	26.00
Lectures	13.00
Private Study	100.00
Tutorials	26.00

## ASSESSMENT DETAILS

Description	Marks out of	Wtg(%)	Due date
ASSIGNMENT 1	100.00	15.00	05 Apr 2006
ASSIGNMENT 2	100.00	25.00	07 Jun 2006
EXAM A (MULTI-CHOICE)	40.00	24.00	END S1 (see note 1)
EXAM B & C (WRITTEN)	60.00	36.00	END S1

### NOTES

1. The examination is scheduled to be held in the end-of-semester examination period. Students will be advised of the official examination date for Exam (Parts A, B and C) after the timetable has been finalised. The total working time for Exam (Parts A, B and C) is 3 hours.

## IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:  
It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.
- 2 Requirements for students to complete each assessment item satisfactorily:  
To complete the assignments satisfactorily, students must obtain at least 50% of the marks available for the assignments in aggregate. To complete the examination satisfactorily, students must obtain at least 50% of the marks available for the examination.
- 3 Penalties for late submission of required work:

If students submit assignments after the due date without prior approval then a penalty of 20% of the total marks available for the assignment will apply for each working day late.

- 4 Requirements for student to be awarded a passing grade in the course:  
To be assured of receiving a passing grade a student must attempt all of the summative assessment items, achieve an aggregated mark of at least 50% in the total marks allocated for the assignments, achieve at least 50% in the examination, and at least 50% of the available weighted marks for the summative assessment items. Students who do not qualify for a passing grade may, at the discretion of the Examiner, be awarded a supplementary examination and/or be assigned additional work to demonstrate to the Examiner that they have achieved the required standard. It is expected that such students will have gained at least 45% in the examination and 50% of the total marks available for all summative assessment items.
- 5 Method used to combine assessment results to attain final grade:  
The final grades for students will be assigned on the basis of the weighted aggregate of the marks (or grades) obtained for each of the summative assessment items in the course.
- 6 Examination information:  
This is a restricted examination. Candidates are allowed access to specific materials during the examination. The only materials that candidates may use in the examination for this course are (i) Writing materials: non-electronic and free from material which could give the student an unfair advantage in the examination; (ii) Translation dictionaries: with the Examiner's approval, candidates may, take an appropriate non-electronic translation dictionary into the examination. This will be subject to perusal and, if it is found to contain annotations or markings that could give the candidate an unfair advantage, it may be removed from the candidate's possession until the appropriate disciplinary action is completed; and (iii) calculators which cannot hold textual information (students must indicate on their examination paper the make and model of any calculator(s) they use during the examination).
- 7 Examination period when Deferred/Supplementary examinations will be held:  
Any Deferred or Supplementary examinations for this course will be held during the next examination period.
- 8 University Regulations:  
Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10 Academic Misconduct for further information and to avoid actions which might contravene University Regulations. These regulations can be found at the URL <http://www.usq.edu.au/corporateservices/calendar/part5.htm>. Students should also read the Faculty of Business Guide to Policies and Procedures of the Faculty which can be found at the URL <http://www.usq.edu.au/handbook/current/buspolproc.html>.

## **ASSESSMENT NOTES**

- 1 Assignments: (i) The due date for an assignment is the date by which a student must despatch the assignment to the USQ. The onus is on the student to provide proof of the despatch date, if requested by the Examiner. (ii) If requested, students will be required to provide a copy of an assignment submitted for assessment purposes. This should be despatched to the USQ within 24 hours of receipt of a request being made. (iii) The Examiner may grant an extension of the due date of an assignment in extenuating circumstances. (iv) The Examiner will normally only accept assessments that have been written, typed or printed on paper-based media. (v) In the event that a due date for an assignment falls on a local public holiday in their area, such as a Show holiday, the due

date for the assignment will be the next day. Students are to note on the assignment cover the date of the public holiday for the Examiner's convenience.

- 2 Course Weightings: Course weightings of topics should not be interpreted as applying to the number of marks allocated to questions testing those topics in an examination paper.
- 3 Referencing in Assignments: Unless otherwise directed by the Examiner, all written and oral assignments submitted by students must conform to the guidelines laid out in the 'Communication skills handbook: How to succeed in written and oral communication'. Any work not prepared in accordance with these guidelines may be subject to penalty or requirement for resubmission.
- 4 Make-up Work: Students who have undertaken all of the required assessments in a course but who have failed to meet some of the specified objectives of a course within the normally prescribed time may be awarded the temporary grade: IM (Incomplete - Make up). An IM grade will only be awarded when, in the opinion of the Examiner, a student will be able to achieve the remaining objectives of the course after a period of non-directed personal study.
- 5 Deferred Work: Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded: IDS (Incomplete - Deferred Examination); IDM (Incomplete Deferred Make-up); IDB (Incomplete - Both Deferred Examination and Deferred Make-up).
- 6 Appeals: Any appeal against the award of a grade in the course will be conducted in accordance with University Regulations. These Regulations are published in the University Handbook.

## **OTHER REQUIREMENTS**

- 1 Learning Resources: Prescribed texts and materials (see above); recommended reference materials (see above); printed Introductory Book\* and Study Book/s\*; and Studydesk and discussion list accessible via USQConnect. \*part of the study package available from the USQ Bookshop
  - 2 E-mail and Internet Access: Students will require access to e-mail and Internet access to USQConnect for this course.
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