Description: Advanced Systems Analysis and Design

<table>
<thead>
<tr>
<th>Subject</th>
<th>Cat-nbr</th>
<th>Class</th>
<th>Term</th>
<th>Mode</th>
<th>Units</th>
<th>Campus</th>
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<tr>
<td>CIS</td>
<td>3002</td>
<td>38128</td>
<td>3, 2004</td>
<td>EXT</td>
<td>1.00</td>
<td>TW MBA</td>
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Academic group: FOBUS
Academic org: FOB005
Student contribution band: 2
ASCED code: 020305

STAFFING
Examiner: Fiona Darroch
Moderator: Dave Roberts

REQUISITES
Pre-requisite: CIS2000 and CIS2002

RATIONALE
We are in a climate of technological progress and increasing demand for management information systems. This changing work environment for the system analyst has resulted in the emergence of a variety of new and effective system development methodologies to enhance the traditional tools of the analyst.

SYNOPSIS
This course introduces the student to the techniques of systems analysis and design with an emphasis on object oriented methodologies and interpersonal communication skills. The latest data analysis methods are given a prominence in accord with their currently accepted importance as are written and verbal communication skills. The course will enable students to comprehend the phases in the development of an information system; understand and undertake the major activities that occur during the analysis and design phases; select and use appropriate tools; plan the transition into the design phase; and undertake data analysis and logical design of a system. Major trends and issues effecting systems analysis and design in the business sector are also studied.

OBJECTIVES
Completion of this course will enable students to:
1. demonstrate strong communication skills in the preparation and delivery of formal systems documentation to management and user groups;
2. outline the phases in the development of a business system and describe purposes of each;
3. apply the major activities that occur during the analysis and design phases;
4. discuss the advantages and disadvantages of the major methodologies for information systems development;
5. accurately and consistently develop a systems proposal; define systems requirements; and prepare systems specification;
6. demonstrate basic literature research and academic report writing skills.

**TOPICS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tr>
<td>1. Communication Skills</td>
<td>25.00</td>
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<tr>
<td>2. SA&amp;D Methodologies and Techniques</td>
<td>50.00</td>
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<tr>
<td>3. SA&amp;D Issues</td>
<td>25.00</td>
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**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).

Students are encouraged to use a case tool package (see CIS3002 Introductory Book).


(revised and updated edition)

**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.


**STUDENT WORKLOAD REQUIREMENTS:**

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>Private Study</td>
<td>50.00</td>
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<tr>
<td>Project Work</td>
<td>120.00</td>
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ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks out of</th>
<th>Wtg(%)</th>
<th>Due date</th>
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<tr>
<td>ASSIGNMENT 1</td>
<td>100.00</td>
<td>15.00</td>
<td>20 Dec 2004</td>
</tr>
<tr>
<td>ASSIGNMENT 2</td>
<td>100.00</td>
<td>15.00</td>
<td>17 Jan 2005</td>
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<tr>
<td>EXAM PART A (MULTI-CHOICE)</td>
<td>35.00</td>
<td>25.00</td>
<td>END S3</td>
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<tr>
<td>EXAM PART B (WRITTEN)</td>
<td>65.00</td>
<td>45.00</td>
<td>END S3</td>
</tr>
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NOTES:
1. Software requirements specification.
2. Software design description.
3. 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 and B) after the timetable has been finalised. The total working time for Exam (Parts A and B) is 3 hours.

IMPORTANT ASSESSMENT INFORMATION

1. Attendance requirements:
   If you are an international student in Australia you are advised to attend all classes at your campus. Failure to attend may infringe the conditions of your student visa. For all other students, there are no attendance requirements for this course. However, it is the students’ responsibility 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 may 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.

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.

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) Students must retain a copy of each item submitted for assessment. This must be produced within five days if required by the Examiner. (iii) The Examiner may grant an extension of the due date of an assignment in extenuating circumstances. Students may apply for an extension through the DEC before the due date or by including an application with the submitted assignment after the due date. Such applications should be in writing and include supporting documentary evidence. The authority for granting extensions rests with the relevant Examiner. (iv) The Examiner will normally only accept assessments that have been written, typed or printed on paper-based media. (v) Students who do not have regular access to postal services or who are otherwise disadvantaged by these regulations may be given special consideration. They should contact the Examiner to negotiate such special arrangements. (vi) 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. The examination may test material already tested in assignments.
3 Guidelines for 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' and the 'Information systems developers handbook: A road map for students'. Any work not prepared in accordance with these guidelines may be subject to penalty or requirement for resubmission.

4 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).

OTHER REQUIREMENTS

1 E-mail and Internet Access: Students will require access to e-mail and Internet access to USQConnect for this course.