UNIT OVERVIEW

Introduction

The unit develops an understanding of the basic concepts related to information systems, particularly in the systems analysis and design phases in the systems development life cycle. It builds the basic skills and techniques employed by a professional system analyst in systems analysis and design. It also provides the opportunities to practise the use of information systems modelling and design tools. The unit covers topics such as systems requirements engineering and its methods; systems modelling, information systems applications in organisations, systems designs, problem solving, systems management, roles of systems analysts, use of electronic information resources.

Prerequisites

KXO101 or BSA101

Unit Weight

12.5% of one academic year

Teaching Pattern

Teaching is grouped into 13 modules which include: 19 lectures, 12 tutorials, and 8 directed learning activities.

Unit Content

The unit content is grouped into 5 major topics:

- Foundations for the Systems Development
- Systems Planning & Selection
- Systems Analysis
- Systems Design
- Systems Implementation & Operation


For more information see the section titled 'Content' on the unit website.

Prior Knowledge and/or Skills
Knowledge and skills covered in KXO101 (BSA101) Business Information Systems. Similarly, a basic knowledge of the various computerised systems in operation in the business world, public organisations and the social community can help in the understanding of the unit.

Learning Outcomes

On successful completion of this unit, you will be able to:

1. Understand the core concepts of information systems, mainly in the systems analysis and design phases;
2. Understand the overall systems development process, systems theory and the problem solving processes involved in systems analysis;
3. Understand and apply various techniques for gathering systems requirements and use different techniques and tools for modelling systems process and data;
4. Understand systems design issues and learn to apply good design practices;
5. Understand the various use and management of information systems in organizations and be familiar with the different roles of major stakeholders and the required skills of these people in systems analysis and design.

Generic graduate attributes

The university has defined a set of generic graduate attributes expected in its graduates. 

http://www.utas.edu.au/policy/subject.html#graduates Your course is designed to enable you to develop generic skills that are valued in, and expected of, graduates. These are skills that you will need to develop over time. Hence you are encouraged to look for opportunities, as you study each unit, to reflect on and improve these skills.

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Descriptor</th>
<th>Unit Specifics</th>
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</table>
| Knowledge                  | Graduates will have an in-depth knowledge in their chosen field of study and the ability to apply that knowledge in practice. They will be prepared for lifelong learning in pursuit of personal and professional development. | ♦ A knowledge of information requirements engineering techniques and tools;  
♦ A knowledge of business process modelling techniques and tools;  
♦ A knowledge of data modelling techniques and tools;  
♦ An understanding of the information system development life cycle and how various activities fit into the big picture of the systems development process. |
| Communication Skills       | Graduates will be able to communicate effectively across a range of contexts. | ♦ An awareness of the importance of adequate client consultation when developing the requirements for an information system;  
♦ Discussion of relevant problems with others, present their own opinions and critically assess the opinions of others;  
♦ Develop understanding of how to produce business reports, memos and letters and be able to use a variety of communication forms. |
| Problem Solving Skills     | Graduates will be effective problem-solvers, capable of applying logical, critical and creative thinking in a range of problems. They will have developed competencies in information literacy. | ♦ Develop the ability to solve a range of business problems through case study analysis and group discussion;  
♦ Conceptualise problems and formulate a range of solutions;  
♦ Find, acquire, evaluate, manage and use relevant information in a range of media. |

UNIT ASSESSMENT

Assessment Pattern

Internal (30%), Exam (70%)

Assessment Summary
<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>Directed Learning</td>
<td>15%</td>
<td>9:00 pm (Shanghai time) Friday of each Module</td>
</tr>
<tr>
<td>Specifications Report</td>
<td>15%</td>
<td>9:00 pm (Shanghai time) Monday, Jan 12, 2009</td>
</tr>
<tr>
<td>Final examination</td>
<td>70%</td>
<td>University Examination Period</td>
</tr>
</tbody>
</table>

**Assessment Items**

**Item 1**
**Title:** Directed Learning  
**Type:** In-Semester - learning tasks  
**Task Length:**  
**Weighting:** 15%  
**Links to Learning Outcomes:** 1, 2, 5  
**Due:** 9:00 pm (Shanghai time) Friday of each Module  
**Description:** This is an individual assignment that requires logging onto MyLO to complete a series of True / False and Multiple-choice questions that relate to the textbook chapter and case study for each module. This allows students to demonstrate knowledge of the topics covered in the corresponding module, and to familiarise themselves with the module's case study.

**Item 2**
**Title:** Specifications Report  
**Type:** In-Semester - group assignment  
**Task Length:** maximum 2,500 words technical report  
**Weighting:** 15%  
**Links to Learning Outcomes:** 1, 2, 3, 4, 5  
**Due:** 9:00 pm (Shanghai time) Monday, Jan 12, 2009  
**Description:** This is a group assignment requiring a report to demonstrate knowledge of the methods and techniques used for process and data modelling and understanding of good systems design practises.

**Item 3**
**Title:** Final examination  
**Type:** Formal Examination  
**Task Length:** 2 hours  
**Weighting:** 70%  
**Links to Learning Outcomes:** 1, 2, 3, 4, 5  
**Due:** University Examination Period  
**Description:** This is a closed book exam. However, two A4 sides (one sheet of A4 paper with writing on both sides, or two sheets of A4 paper with writing on one side of each sheet) of handwritten notes to be handed in with the exam booklet are permitted.

See the 'Assessment' section in unit website for more detailed information about assessment items.

**How your Final Grade will be determined**

Overall assessment will be based on the student's performance throughout the semester as well as in a formal examination. In order to achieve a pass (or better) result, a student must obtain:

1. at least 45% of the total mark for in-semester assessment items  
2. at least 45% of the mark for the formal examination  
3. at least 50% of the overall mark

**UNIT RESOURCES**

**Unit Web Site**

This unit is Web Dependent: content. This means that you will need to use the Web for this unit. The unit website contains unit information and resources. The unit website is accessed from http://www.utas.edu.au/coursesonline/. You will need to use your University of Tasmania email pop account username and password to log on to the MyLO system. Once authenticated by the system your personalised MyLO Learning Online area will be displayed. It contains links to the websites that you have permission to access - including the website for this unit.

If you are not able to access the unit website, please contact the technical staff at SOU.

**Prescribed Text**


**Readings**

(Recommended for all Information Systems units)

**Software**

The software that you will need to access the unit website and to study this unit, including general purpose software such as word processors, is provided on the computers in the computing labs. If you intend to use software on other
computers please check that the versions are compatible.

**Other Resources**

Textbook's online resources: www.prenhall.com/valacich

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**GENERAL RESOURCES**

**School Website**

School of Computing and Information Systems - Faculty of Science, Engineering, and Technology.
http://www.cis.utas.edu.au

**Faculty Website**

Information and Resources for Faculty of Science, Engineering and Technology students are available on the faculty website at: http://www.utas.edu.au/scieng

**University Website**

Information and Resources for 'Current Students' are available on the university website at:
http://www.utas.edu.au/students/

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**GENERAL ASSESSMENT**

**Approach to Learning**

The University is committed to high standards of professional conduct in all activities, and holds its commitment and responsibilities to its students as being of paramount importance. Likewise, it holds expectations about the responsibilities students have as they pursue their studies within the special environment the University offers.

The University's Code of Conduct for Teaching and Learning states:

Students are expected to participate actively and positively in the teaching/learning environment. They must attend classes when and as required, strive to maintain steady progress within the subject or unit framework, comply with workload expectations, and submit required work on time.

You are expected to spend about 130 hrs studying in this unit - this includes attendance at scheduled teaching sessions. (For a 13 week semester this is, on average, 10 hr/wk.) This is the amount of study time that the 'typical' student will need to reach the level of competence and understanding required to fulfil the unit objectives. You are expected to:

- attend all scheduled teaching sessions, unless otherwise notified by the unit coordinator
- prepare for, and actively participate in all scheduled teaching sessions
- complete the assigned learning tasks
- review what has been learnt
- complete assessment items and submit them on time
- access and be familiar with the information and resources available on the unit website
- seek help from teaching staff if you have any questions or difficulties in studying this unit

You are encouraged to read the university's Code of Conduct for Teaching and Learning. Part A describes the 'Responsibility of the University to Students' and part B describes the 'Responsibilities of Students to the University'.

It is expected that students will familiarise themselves with access and use of the MyLO system operated by the University for the electronic delivery of course materials, and for various forms of communication.

It is expected that students will consult email sent to their University email address at least twice a week for notices relating to the administration of the unit, and for notification of the results of assignments.

It is expected that students will read the background material specified in the course curriculum, will actively attend and participate in tutorials, and be prepared to discuss relevant issues arising with tutors, lecturers and fellow students.

**Student Expectations of the Unit**

Students enrolled in this Unit may reasonably expect the following:

1. To be able to contact a lecturer or tutor by electronic mail, to raise issues arising in the unit, either relating to content or student performance within the unit.
2. Subject to availability, to be able to discuss such issues in person with the lecturer or tutor.
3. That assignments will be marked and the marks will normally be returned within 3 weeks of due dates.
4. That all relevant notices regarding the administration of the unit, including any necessary changes, will be communicated to all students enrolled in the unit via email.
These expectations are in addition to those specified in relevant University regulations.

Plagiarism

Unless specifically stated in the specification of the assessment item provided on the unit website, it is required that:

- work submitted by a student is the work of that student alone OR
- where the assessment item is to be completed by a group of students, the work submitted by the group of students is the work of that group of students alone.

While students are encouraged to discuss the assignments in this unit and to engage in active learning from each other, it is important that they are also aware of the University’s policy on plagiarism. Plagiarism is taking and using someone else’s thoughts, writings or inventions and representing them as your own; for example downloading an essay wholly or in part from the internet, copying another student’s work or using an author’s words or ideas without citing the source.

"Plagiarism is a form of cheating. It is taking and using someone else's thoughts, writings or inventions and representing them as your own; for example, using an author's words without putting them in quotation marks and citing the source, using an author's ideas without proper acknowledgment and citation, copying another student's work.

If you have any doubts about how to refer to the work of others in your assignments, please consult your lecturer or tutor for relevant referencing guidelines, and the academic integrity resources on the web at http://www.academicintegrity.utas.edu.au.

The intentional copying of someone else's work as one's own is a serious offence punishable by penalties that may range from a fine or deduction/cancellation of marks and, in the most serious of cases, to exclusion from a unit, a course or the University. Details of penalties that can be imposed are available in the Ordinance of Student Discipline – Part 3 Academic Misconduct, see http://www.utas.edu.au/universitycouncil/legislation/.

The University and any persons authorised by the University may submit your assessable works to a plagiarism checking service, to obtain a report on possible instances of plagiarism. Assessable works may also be included in a reference database. It is a condition of this arrangement that the original author's permission is required before a work within the database can be viewed."

Referencing

The preferred text referencing systems for the School is the Harvard system (also referred to as the author-date system). In your written work you will need to support your ideas by referring to scholarly literature, works of art and/or inventions. For information on presentation of assignments, including referencing styles: http://utas.libguides.com/referencing

It is important that you understand how to correctly refer to the work of others and maintain academic integrity. Failure to appropriately acknowledge the ideas of others constitutes academic dishonesty (plagiarism), a matter considered by the University of Tasmania as a serious offence. The university document on plagiarism contains information about referencing the work or ideas of others (see http://www.utas.edu.au/plagiarism/).

Submissions

The details of the submission method (paper, electronic or other) for each assignment will be supplied in a separate assignment specification sheet. All in-semester assignment submissions (including electronic submissions) are to include an Assignment Cover Sheet which includes a statement confirming that the submission is your own work. If this undertaking is not signed, the assignment will not be marked. The Assignment Cover Sheet is available on the School’s web site http://www.cis.utas.edu.au/cisview/resources.jsp.

Extensions

Assessment items will not be accepted after the due date except under the conditions stated in the School policy on late assessment. http://www.cis.utas.edu.au/downloads/ExtensionPolicy.pdf (PDF - 100KB).

Review of Assessment and Appeals

1. It is expected that students will adhere to the following policy for review of any piece of continuous assessment.
   a. Within 5 days of the release of the assessment result, the student should request an appointment with the Lecturer. The student should be prepared to discuss specifically which section of the marking criteria they are disputing and why they consider the mark is inappropriate.
   b. Following this discussion, students may request a formal remark of the original submission (in accordance with Rule of Academic Assessment 111, clause 22.1). This remark will be undertaken, where
practicable, by an alternative assessor.

2. Students may also request a review of the final result in a unit. The request and payment must be made within 10 days from the date of the result notification. Students are referred to Rule of Academic Assessment 111, clause 23 at http://www.utas.edu.au/universitycouncil/legislation/rule111.pdf and http://www.admin.utas.edu.au/ac_serv/flowchart_review_assesment.pdf.

Complaints Procedure

It is expected that students will adhere to the following policy for making any complaint or grievance directly related to a Unit:

a. In the first instance, students are to approach the Lecturer or Unit Coordinator concerned and arrange a time to speak with them about their concern.

b. If an issue remains unresolved, the student should approach the Head of School and arrange a time to speak with them about their concern.

If the School’s internal policy of complaints is unable to resolve an issue, students should consult Ordinance 8 Student Complaints for further direction, see http://acserv.admin.utas.edu.au/complaints_info.html

Formal Examination

The formal examination will be held at SOU, Shanghai, and is conducted by the University Registrar.

Final Grade

Passing grades will be awarded based on the AVCC guidelines:

- PP at least 50% of the overall mark but less than 60%
- CR at least 60% of the overall mark but less than 70%
- DN at least 70% of the overall mark but less than 80%
- HD at least 80% of the overall mark

In order to comply with the benchmarks set by the Faculty of Science, Engineering & Technology for distribution of grades in units, both the in-semester and examination marks that students obtain may be adjusted either upwards or downwards. See http://fcms.its.utas.edu.au/scieng/scieng/policies.asp for details of the Faculty Assessment Guidelines.