Course Specification

Description: E-Business Security

Subject  Cat-Nbr  Class  Term  Mode  Units  Campus
CIS      8018    24285  2, 2003 WEB  1.00   TWMB A

Academic Group: FOBUS
Academic Org: FOB005
HECS Band: 2
ASCED Code: 029901

STAFFING
Examiner: Jianming Yong
Moderator: Shelly Grist

PRE-REQUISITES
Pre-requisite: CIS8100

SYNOPSIS
This course examines the security concerns and problems resulting from the increased reliance on information technology to enhance business functions. There is an urgent need for management and professionals to have an in-depth understanding of the threats information and communication systems face and the controls or countermeasures that can prevent or limit their devastating effects. E-business and e-commerce foundations, the regulatory environment, the risks associated with Internet transactions will be discussed, and various risk management strategies as well as Internet security standards, cryptography and authentication, firewalls, and the future of secure Internet-based business transactions will be analysed. Students will address internal and external threats to security and develop appropriate plans to cope with all types of e-business vulnerabilities.

OBJECTIVES
Successful completion of this course should enable a student to:

- discuss the major security concerns and identify important legal issues impacting upon e-business;
- understand the role of self-regulatory practices versus government regulation;
- identify the risks of insecure systems including different categories of malicious techniques;
- understand the risk management paradigm and methodology including the role of internal controls;
- identify and explain common Internet standards and protocols;
• compare alternative encryption techniques and describe how these can be used to secure e-business applications;
• understand the structure and components of firewalls, including their benefits and limitations;
• demonstrate a sound knowledge of the logical, physical and procedural controls of e-business.

TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Overview of E-Business</td>
<td>20.00</td>
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<tr>
<td>2. The Regulatory Environment</td>
<td>10.00</td>
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<td>3. EDI, E-Business and the Internet</td>
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<td>4. Risks of Insecure Systems</td>
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<td>5. Risk Management</td>
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<td>6. Internet Security Standards</td>
<td>10.00</td>
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<td>7. Cryptography and Authentication</td>
<td>10.00</td>
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<td>8. Firewalls</td>
<td>10.00</td>
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<td>9. Securing the Future of E-Business</td>
<td>10.00</td>
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TEXT and MATERIALS required to be PURCHASED or ACCESSED:

Books can be ordered by fax or telephone. For costs and further details use the 'Book Search' facility at http://bookshop.usq.edu.au by entering the author or title of the text.


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>Directed Study</td>
<td>165</td>
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**ASSESSMENT DETAILS**

<table>
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<tr>
<th>Description</th>
<th>Marks Out of</th>
<th>Wtg(%)</th>
<th>Required</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>ASSIGNMENT 1</td>
<td>100.00</td>
<td>20.00</td>
<td>Y</td>
<td>05 Sep 2003</td>
</tr>
<tr>
<td>ASSIGNMENT 2</td>
<td>100.00</td>
<td>20.00</td>
<td>Y</td>
<td>17 Oct 2003</td>
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<tr>
<td>3 HOUR EXAMINATION</td>
<td>100.00</td>
<td>60.00</td>
<td>Y</td>
<td>END S2</td>
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*NOTES:*

The examination is scheduled to be held in the end-of-semester examination period. Students will be advised of the official examination date after the timetable has been finalised.

**IMPORTANT ASSESSMENT INFORMATION**

1. Attendance requirements:
   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 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/SECARIAT/calendar/Part5/ or in the printed version of the current USQ Handbook. Students should also read The Guide to Policies and Procedures of the Faculty which can be found at the URL: http://www.usq.edu.au/handbook/2003/title663.html or in the printed version of the current USQ Handbook.

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 24 hours 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 before the due date or include 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) 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 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'. 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).

OTHER REQUIREMENTS

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