Description: Computer Communication and Internetworking

<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>
</tr>
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<tbody>
<tr>
<td>CSC</td>
<td>3407</td>
<td>62283</td>
<td>1, 2007</td>
<td>ONC</td>
<td>1.00</td>
<td>Fraser Coast</td>
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Academic group: FOSCI
Academic org: FOS003
Student contribution band: 2
ASCED code: 020113

STAFFING
Examiner: Yan Li
Moderator: David Lai

RATIONALE
Explosive growth in computer networks in the last several decades has changed the uses of computers dramatically. The largest computer network, the Internet, is now connecting millions of computers in the world, providing services like email, file transfer, hypermedia information retrieval across all kinds of different platforms. This course is the introductory course in computer networking. It concentrates on basic concepts and protocols of computer networks. This course serves as a foundation for all further courses in computer networking program.

SYNOPSIS
This course addresses the layered structure of computer communication networks. It focuses on networking basics, routers and routing basics and the most widely used TCP/IP protocol suite. After this course, the students will have not only general knowledge about computer networks but also the understanding and practical skills of cabling and managing routers and TCP/IP Internetworking.

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

1. demonstrate an Understand Networking Basics (Assignment 1 and exam)
2. perform Cable Testing and cabling LAN and WAN (Assignment 1 and exam)
3. demonstrate an Understanding of Ethernet Fundamentals (Assignment 1 and exam)
4. illustrate TCP/IP Protocol Suite and Subnetting (Assignment 1 & 2 and exam)
5. manage and configure Cisco Routers (Assignment 2 and exam)
6. explain Routing and Routing Protocols (Assignment 2 and exam)
TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>Network terminologies, protocols and standards</td>
<td>10.00</td>
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<tr>
<td>Fundamentals of local-area networks (LANs) and wide-area networks (WANs)</td>
<td>10.00</td>
</tr>
<tr>
<td>Cabling and Cabling Tests</td>
<td>10.00</td>
</tr>
<tr>
<td>Routers and Router Programming</td>
<td>20.00</td>
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<tr>
<td>Ethernet</td>
<td>12.00</td>
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<tr>
<td>TCP/IP Protocol Suite and Subnetting</td>
<td>23.00</td>
</tr>
<tr>
<td>Routing and Routing Protocols</td>
<td>15.00</td>
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</table>

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).

A shrink-wrapped version a value pack (at price of $79.95) of the two Companion Guide books if it is available.


Study Book 2007, Course CSC3407 Computer Communication and Internetworking, USQ Distance and e-Learning Centre, Toowoomba.

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>65.00</td>
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<tr>
<td>Examinations</td>
<td>2.00</td>
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<tr>
<td>Private Study</td>
<td>107.00</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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</thead>
<tbody>
<tr>
<td>ASSIGNMENT 1</td>
<td>100.00</td>
<td>20.00</td>
<td>13 Apr 2007</td>
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<tr>
<td>ASSIGNMENT 2</td>
<td>100.00</td>
<td>20.00</td>
<td>08 Jun 2007</td>
</tr>
<tr>
<td>2 HOUR CLOSED EXAMINATION</td>
<td>100.00</td>
<td>60.00</td>
<td>END S1 (see note 1)</td>
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NOTES

1. Examination dates will be available during the semester. Please refer to the examination timetable when published.

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 each of the assessment items satisfactorily, students must obtain at least 50% of the marks available for each assessment item.

3. Penalties for late submission of required work:
   If students submit assignments after the due date without prior approval then a penalty of 10% of the total marks gained by the student 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 a passing grade, students must demonstrate, via the summative assessment items, that they have achieved the required minimum standards in relation to the objectives of the course by obtaining at least 50% of the total weighted marks available for the examination and each assignment.

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:
In a Closed Examination, candidates are allowed to bring only writing and drawing instruments into 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 examination period at the end of the semester of the next offering of this course.

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 or in the current USQ Handbook.

ASSESSMENT NOTES

9 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.

10 In accordance with University policy, the Examiner may grant an extension of the due date of an assignment in extenuating circumstances.

11 The Faculty will NOT accept submission of assignments by facsimile.

12 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 of the course to negotiate such special arrangements.

13 In the event that a due date for an assignment falls on a local public holiday in their areas, 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.

14 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.

15 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 Laboratory: In some of the laboratory sessions, a network diagnostic tool is used to examine and watch the TCP/IP protocols in action on a local network.

2 Students who obtain an overall passing mark, but who do not gain at least 50% of the marks available for the examination, may, at the discretion of the examiner, be granted a supplementary examination.

3 Students will be granted a deferred examination only if they perform satisfactorily in all other assessment items.

4 Plagiarism of other students' work is unacceptable. Any breach will be dealt with in accordance with Faculty and USQ policies.
Candidates should be aware that the University has policies and regulations (Regulation 5.6.2.2) about the use of unfair means and electronic devices in an examination and they should refer to them to determine whether or not actions they intend to take are acceptable to the University.