Description: Network Management

<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>CIS</td>
<td>3005</td>
<td>66458</td>
<td>2, 2007</td>
<td>ONC</td>
<td>1.00</td>
<td>Toowoomba</td>
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Academic group: FOBUS
Academic org: FOB005
Student contribution band: 2
ASCED code: 020113

STAFFING
Examiner: Srecko Howard

OTHER REQUISITES
Students are required to have access to a personal computer, e-mail capabilities and Internet access to USQConnect. Current details of computer requirements can be found at http://www.usq.edu.au/business/aboutfob.htm

RATIONALE
Telecommunications networks represent one of the most significant investments in information technology being made by industry today. The implementation of these networks has far reaching impacts throughout the organisation. Network management impacts on the effective use of any telecommunications network resource and as such is vital to the configuration and operation of the network. Students with an in depth understanding of the management issues associated with telecommunications networks will be able to design and implement more effective networks which will then be able to be easily controlled and expanded.

SYNOPSIS
This course expands on the knowledge gained in previous courses relating to telecommunications networks. In particular it looks at network management considerations which affect the design process and the impacts of managing the resulting networks. The course will explore network management through an examination of current network management technologies and methods, current network implementations, and networking standards. Networks will be examined from a practical business viewpoint with case studies highlighting issues important to businesses and the development of appropriate networking solutions.

OBJECTIVES
The course objectives define the student learning outcomes for a course. The assessment item/s that may be used to assess student achievement of an objective is/are shown in parentheses after each objective. On successful completion of this course, students should be able to:
1. an in-depth knowledge of the component activities in network management (Assignment, Examination)
2. interpretation of network management standards and related documents (Assignment, Examination)
3. the ability to develop network designs which incorporate network management requirements (Assignment, Examination)
4. development of procedures for network management practices within an organisation (Assignment, Examination)
5. an understanding of contemporary methods for network monitoring (Assignment, Examination)
6. the implementation of appropriate actions when monitoring reveals potential problems (Assignment, Examination).

**TOPICS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Review of network technologies from previous courses</td>
<td>10.00</td>
</tr>
<tr>
<td>2. Network management components</td>
<td>35.00</td>
</tr>
<tr>
<td>3. Network management standards, models and language</td>
<td>25.00</td>
</tr>
<tr>
<td>4. Impacts of network management on network design</td>
<td>15.00</td>
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<tr>
<td>5. Network monitoring issues and tools</td>
<td>15.00</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).

CIS3005 study package available from the USQ Bookshop.


**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>
</tr>
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<tbody>
<tr>
<td>Directed Study</td>
<td>114.00</td>
</tr>
<tr>
<td>Lectures</td>
<td>26.00</td>
</tr>
<tr>
<td>Tutorials</td>
<td>26.00</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>
</tr>
</thead>
<tbody>
<tr>
<td>ASSIGNMENT</td>
<td>100.00</td>
<td>30.00</td>
<td>15 Oct 2007</td>
</tr>
<tr>
<td>2 HOUR EXAMINATION</td>
<td>99.00</td>
<td>70.00</td>
<td>END S2 (see note 1)</td>
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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 after the timetable has been finalised.

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 satisfactorily complete an individual assessment item a student must achieve at least 50% of the marks. (Depending upon the requirements in Statement 4 below, students may not have to satisfactorily complete each assessment item to receive a passing grade in this course.)

3 Penalties for late submission of required work:
   If students submit assignments after the due date without prior approval of the examiner, then a penalty of 5% of the total marks gained by the student for the assignment may apply for each working day late up to ten working days at which time a mark of zero may be recorded.

4 Requirements for student to be awarded a passing grade in the course:
   To be assured of receiving a passing grade a student must achieve at least 50% of the total weighted marks available for the course.

5 Method used to combine assessment results to attain final grade:
   The final grades for students will be assigned on the basis of the aggregate of the weighted 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 Student Academic Misconduct for further information and to avoid actions which might contravene university regulations. These regulations can be found at http://www.usq.edu.au/corporateservices/calendar/part5.htm. Students should also read the Faculty of Business Policies and Procedures which can be found at http://www.usq.edu.au/business/aboutfob.htm.

ASSESSMENT NOTES

1 Assignments: (i) The due date for an assignment is the date by which a student must submit the assignment to the USQ. (ii) Students must retain a copy of each assignment submitted for assessment. This must be produced within 24 hours if required by the examiner. (iii) In accordance with university policy, 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 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 Learning resources: Prescribed texts and materials (see above); recommended reference materials (see above); printed Introductory Book*, Study Book/s*, and Book/s of Selected Readings*; and course Website 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.