



The University of Southern Queensland

## Course specification

<b>Description: Network Management</b>						
Subject	Cat-nbr	Class	Term	Mode	Units	Campus
CIS	3005	44575	2, 2005	ONC	1.00	Toowoomba

<b>Academic group:</b>	FOBUS
<b>Academic org:</b>	FOB005
<b>Student contribution band:</b>	2
<b>ASCED code:</b>	020113

### STAFFING

Examiner: Srecko Howard

Moderator: Peter Byrnes

### 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

On completion of this course students will be able to:

1. an in-depth knowledge of the component activities in network management;
2. interpretation of network management standards and related documents;
3. the ability to develop network designs which incorporate network management requirements;
4. development of procedures for network management practices within an organization;
5. an understanding of contemporary methods for network monitoring; and
6. the implementation of appropriate actions when monitoring reveals potential problems.

## TOPICS

Description	Weighting (%)
1. Review of network technologies from previous courses	10.00
2. Network management components	35.00
3. Network management Standards, Models and Language	25.00
4. Impacts of network management on network design	15.00
5. Network monitoring issues and tools	15.00

## 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.

Subramanian, M 2000, *Network management principles and practice*, Addison-Wesley Publishing Company, Reading, Massachusetts.

Summers, J & Smith, B 2004, *Communication skills handbook: how to succeed in written and oral communication*, John Wiley & Sons, Milton, Queensland.

(revised & 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.

Hegering, H & Abeck, S 1994, *Integrated network and system management*, Addison-Wesley Publishing Company, Wokingham, England.

Held, G 1996, *LAN management with SNMP and RMON*, John Wiley Computer Publishing, New York.

Leinwand, A & Conroy, KF 1996, *Network management: a practical perspective*, 2nd edn, Addison-Wesley Publishing Company, Reading, Massachusetts.

Terplan, K 1992, *Communication networks management*, 2nd edn, Prentice-Hall, Englewood Cliffs, New Jersey.

## STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Directed Study	118.00
Lectures	26.00
Tutorials	26.00

## ASSESSMENT DETAILS

Description	Marks out of	Wtg(%)	Due date
ASSIGNMENT	100.00	20.00	17 Oct 2005
3 HOUR EXAMINATION	100.00	80.00	END S2 (see note 1)

### 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 complete the assignment satisfactorily, students must obtain at least 50% of the marks available for the assignment. 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 both of the summative assessment items, achieve at least 50% in the assignment, 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) If requested, students will be required to provide a copy of an assignment submitted for assessment purposes. This should be despatched to the USQ within 24 hours of receipt of a request being made. (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) 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 text and materials (see above); prescribed reference materials (see above); printed Introductory Book\*, Study Book/s\*, and Book/s of

Selected Readings\*; CD (compact disc)\*; 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.
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