

## Enterprise Network Management 612 (ENM612)

### Unit Outline Semester 2, 2008

<b>Unit Index Number</b>	11454
<b>Hours per Week</b>	3 hours
<b>Weekly Tuition Pattern</b>	1 hour lecture/seminar, and 2 hour tutorial/laboratory
<b>Credit Value</b>	25 credits
<b>Pre-requisites</b>	Technological Infrastructure 502
<b>Unit Controller</b>	Peter Dell
<b>Unit Controller's office</b>	Building 408 Room 3011
<b>Unit Controller's email</b>	P.T.Dell@curtin.edu.au
<b>Contact Telephone Numbers</b>	9266 4485
<b>School Telephone &amp; Fax Numbers</b>	9266 7685 (tel) or 9266 3076 (fax)
<b>Website for Unit Materials</b>	<a href="http://elearn.cbs.curtin.edu.au">http://elearn.cbs.curtin.edu.au</a>
<b>Student Consultation Times</b>	Available from the school office

#### IMPORTANT NOTICE

The Unit Outline (this document) gives the student important information about the unit, aims, outcomes, syllabus, materials, timetable, program and assessment.

Note that important information relating to policies, expectations, examinations, copyright, referencing, academic misconduct, plagiarism, assistance with communication skills, guidelines for assessment, and CV development is contained in the publication titled: **Student Passport A-Z Guide**. This document is available for collection from CBS Student Services Office or can be accessed at <http://business.curtin.edu.au/studentpassport> .

You are required to be aware of, and fulfil, your responsibilities under the University's statutes, rules, policies and procedures so it is important that you review the content in **Student Passport A-Z Guide** in detail.

CRICOS provider code 00301J

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# UNIT INFORMATION

## 1. Aims

The aims of this unit are to:

1. Provide students with an understanding of issues relevant to enterprise networks.
2. Provide students with practical skills in network administration.

## 2. Outcomes

### 2.1 Learning Outcomes

On successful completion of this unit, students should be able to:

1. Ability to conduct basic administration of Cisco network devices
2. Ability to design access lists
3. Ability to communicate network configuration details

### 2.2 Graduate Attributes and Professional Skills Outcomes

Employers worldwide want graduates who have developed effective professional skills and attributes. The CBS graduate attributes and professional skills program includes communication (writing, interpersonal interactions and cultural awareness, and presenting), critical and creative thinking (problem solving and decision making), team work, IT literacy, information literacy, international perspectives and life-long learning.

On successful completion of this unit, students should be able to:

1. Improved ability to communicate technical information in a written medium
2. Improved ability to synthesise relevant technical information from complex sources

## 3. Syllabus

TCP/IP. WAN technologies. Network layer concepts. Traffic engineering and MPLS. QoS. IPX/SPX. Security. Mobile computing.

## 4. Materials

### 4.1 Texts, References, Other Resources

### 4.2 Texts

Cisco Systems (2005) *CCNA 1 and 2 Companion Guide*, Cisco Press, Indianapolis, Indiana, USA. ISBN: 1-58713-150-1.

### 4.3 References

In addition to the textbook(s) above the following references will be useful:

In addition to the set textbook(s) the following references will be useful:

- Buckwalter, J.T. (2000) *Frame Relay: Technology and Practice*, Addison Wesley Longman, Inc., MA, USA.
- Carr, H.H. & Snyder, C.A. (2003) *The Management of Telecommunications* (2<sup>nd</sup> edn), McGraw-Hill Irwin, Boston, MA, USA.

- Chappell, L.A. & Tittel, E. (2002) *Guide to TCP/IP*, Course Technology, Cambridge, MA, USA.
- Ciampa, M. (2002) *Guide to Wireless Communications*, Course Technology, Cambridge, MA, USA.
- Dean, T. (2003) *Guide to Telecommunications Technology*, Course Technology, MA, USA.
- DiMarzio, J.F. (2001) *Network Architecture and Design: A Field Guide for IT Consultants*, SAMS, Indianapolis, Indiana, USA.
- Forouzan, B.A. (2003) *TCP/IP Protocol Suite* (2<sup>nd</sup> edn), McGraw Hill, Boston, MA, USA.
- Goncalves, M. & Niles, K. (1998) *IPv6 Networks*, McGraw Hill, Boston, MA, USA.
- Hudson K, Caudle K, Cannon K (2003) *CCNA Guide to Cisco Networking* (Third Edition), Course Technology.
- Hudson, K & Caudle, K. (2000) *CCNA Guide to Cisco Routing*, Course Technology, MA, USA.
- Marcus, J.S. (1999) *Designing Wide Area Networks and Internetworks: A Practical Guide*, Addison-Wesley, Reading, MA, USA.
- McQuerry, S. (2004) *CCNA Self-Study: Introduction to Cisco Networking Technologies (INTRO)*, Cisco Press.
- Palmer, M. & Sinclair, R.B. (2003) *Designing and Implementing Local and Wide Area Networks* (2<sup>nd</sup> edn), Course Technology, Canada.
- Tanenbaum, A.S. (2003) *Computer Networks* (4<sup>th</sup> Edition), Prentice Hall, New Jersey, USA.

#### 4.4 Other Resources

Blackboard contains copies of all lecture materials, exercises for private study, and links to other relevant Internet sources. You are urged to read these materials before attending the lecture.

### 5. Timetable of Classes

Refer to “unit information” at <http://www.cbs.curtin.edu.au/students> for timetable updates.

### 6. Program

Please refer to the study guide for details.

### 7. Assessment

#### 7.1 Summary

To pass this unit you must:

- Receive an overall grade of 5 or above and a mark greater than or equal to 50, AND
- Submit all assessment activities, AND
- Pass all assessment activities, AND
- Pass the exam

No.	Assessment Activity	Percentage %
1	Assignment 1	20%
2	Assignment 2	30%
4	Exam	50%
	Total	100%

Please see the study guide for details regarding assessment requirements, due dates, and marking guides.

## 7.2 *Assessment Details*

### 7.2.1 *Assignments*

Please see the study guide for more information about Assignments 1 and 2.

### 7.2.2 *Examination*

The final examination will be conducted during the final examination period. Information is available on Blackboard and in the study guide, and further information will be provided during the semester.

### 7.3 *Assessment Compliance Information*

Due dates will be strictly adhered to. Extensions will be granted only in cases of demonstrated urgent need. It is your responsibility to check the due date.

The Final Exam will be held during the formal examination period. It is the student's responsibility to check the date and time of the Final Exam on the Curtin website.

Official release results for this unit are published on Oasis on the Curtin website at the following URL:

<http://oasis.curtin.edu.au>

### 7.4 *Penalty for Late Submission of Assessments*

If assignments are not submitted by the due date, a penalty of 5% per day will be deducted from the assessment mark and after seven (7) days a zero mark will be recorded. It is the student's responsibility to keep appropriate copies/backups of every assignment submitted.

### 7.5 *Relationship of Assessment Activities to Learning Outcomes and Professional Skills*

This table illustrates how the assessment activities relate to the assessment of the learning outcomes and professional skills.

<b>Outcomes</b>	<b>Assessment Activity</b>		
	<b>Assignment 1</b>	<b>Assignment 2</b>	<b>Exam</b>
<b>Learning Outcomes</b>			
1. Ability to conduct basic administration of Cisco network devices	✓	✓	✓
2. Ability to design access lists		✓	✓
3. Ability to communicate network configuration details	✓	✓	
<b>Professional Skills</b>			
1. Improved ability to communicate technical information in a written medium	✓		
2. Improved ability to synthesis relevant technical information from complex sources		✓	

## 8. **General Information**

Please see the **Curtin A-Z 08 Student Passport guide** as described on Page 1 of this document for important general information. This information can also be accessed at the following URL:

<http://www.business.curtin.edu.au/studentpassport>

## 9. Improvements and Student Feedback

The CBS values student feedback as one of the many ways to continuously inform improvements to this Unit.

Recent student feedback on this Unit is available at: <http://evaluate.curtin.edu.au/reports/>

### END OF UNIT INFORMATION

#### Appendix 1: Assignment 1 Marking Guide

Category	Explanation	Marks
Clarity	Your submission will lose marks if it does not clearly explain what configuration should be done and why. Similarly, high marks will be awarded for very clear explanation.	30
Completeness	Marks will be awarded for technical accuracy and completeness. Where there is more than one way of doing something, you should document each option with an explanation of the differences between them.	40
Consistency	Technical terminology should be used consistently throughout your submission, and terminology used in your submission should match that used by Cisco.	10
Structure	High marks will be awarded to submissions that are well structured, and which are easy to follow.	10
Layout	High marks will be awarded to submissions that are professional and functional. Note that crowded or “busy” documents that distract the reader from the content are neither professional nor functional.	10

