

# INFS 7008 SYSTEMS AND NETWORK SECURITY

**Credit Points** 10

**Legacy Code** 300696

**Coordinator** Hon Cheung ([https://directory.westernsydney.edu.au/search/name/Hon Cheung/](https://directory.westernsydney.edu.au/search/name/Hon%20Cheung/))

**Description** This unit is concerned with the protection of information in computing systems and when transferred over networks. It addresses techniques for securing networking applications and their security arrangements. Students gain an understanding of the fundamentals of the provision of security in networks and systems, as well as an appreciation of some of the problems that arise in devising practical security solutions.

**School** Computer, Data & Math Sciences

**Discipline** Information Systems

**Student Contribution Band** HECS Band 2 10cp

**Level** Postgraduate Coursework Level 7 subject

**Equivalent Subjects** LGYA 5882 - Distributed Systems and Network Security

## Restrictions

Students must be enrolled in a postgraduate program.

## Assumed Knowledge

Basic knowledge of networked and computer systems. Basic understanding of cryptography.

## Learning Outcomes

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

1. Describe fundamental concepts of networked system security and security threats.
2. Explain encryption techniques.
3. Analyse and describe common security protocols.
4. Analyse and describe typical authentication protocols and authorization approaches.
5. Explain security issues in networked computer systems.
6. Describe network security in typical networks including LANs and internetworks.
7. Describe security issues and implementation of secure measures on the Internet

## Subject Content

Security concepts and terminology  
 Security threats  
 Cryptography  
 Authentication  
 Authorization  
 Security protocols  
 Network security  
 Computer security

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Item	Length	Percent	Threshold	Individual/Group Task
Intra-session Exam	1 hour	15	N	Individual
Report	2000 words	20	N	Individual
Final Exam	2 hours	45	N	Individual
Practical	5 practicals x 2hrs in duration.	20	N	Individual

Teaching Periods

## Spring

### Parramatta - Victoria Rd

#### Day

**Subject Contact** Hon Cheung ([https://directory.westernsydney.edu.au/search/name/Hon Cheung/](https://directory.westernsydney.edu.au/search/name/Hon%20Cheung/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFS7008\\_22-SPR\\_PS\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFS7008_22-SPR_PS_D#subjects))

#### Evening

**Subject Contact** Hon Cheung ([https://directory.westernsydney.edu.au/search/name/Hon Cheung/](https://directory.westernsydney.edu.au/search/name/Hon%20Cheung/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFS7008\\_22-SPR\\_PS\\_E#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFS7008_22-SPR_PS_E#subjects))