

INFS 7008 SYSTEMS AND NETWORK SECURITY

Credit Points 10

Legacy Code 300696

Coordinator Linh Pham (<https://directory.westernsydney.edu.au/search/name/Linh Pham/>)

Description This subject 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

Check your fees via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

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.

Type	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

Sydney City Campus - Term 1 (2024)

Sydney City

On-site

Subject Contact Mahsa Razavi (<https://directory.westernsydney.edu.au/search/name/Mahsa Razavi/>)

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Spring (2024)

Melbourne

On-site

Subject Contact Linh Pham (<https://directory.westernsydney.edu.au/search/name/Linh Pham/>)

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Parramatta - Victoria Rd

On-site

Subject Contact Linh Pham (<https://directory.westernsydney.edu.au/search/name/Linh Pham/>)

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Sydney City Campus - Term 3 (2024)

Sydney City

On-site

Subject Contact Linh Pham (<https://directory.westernsydney.edu.au/search/name/Linh Pham/>)

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