

INFO 7015 APPLIED CYBERSECURITY

Credit Points 10

Legacy Code 301235

Coordinator Jim Basilakis (<https://directory.westernsydney.edu.au/search/name/Jim Basilakis/>)

Description This subject covers the current approaches, technologies, and applied practices pertinent to cybersecurity and helps the student to understand important related protocols and standards. It describes the features needed for the mitigation of cyber vulnerabilities for improving the reliability of the underlying systems, privacy preservation, and achieving protections against cybercrime and internet fraud. It also examines the basics of ethical hacking, network assurance, cyber risk management, and incident analysis. The subject discusses the trends in applied cybersecurity and introduces some of the relevant current key research issues and features of the field.

School Computer, Data & Math Sciences

Discipline Security Science

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

Pre-requisite(s) COMP 7013 OR
COMP 7004

Restrictions

Students must be enrolled in a postgraduate program.

Learning Outcomes

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

1. Describe the fundamental concepts of applied cybersecurity
2. Identify cybersecurity threats and the services applied to combat them
3. Explain cybersecurity technologies and practices
4. Analyse and describe the advantages and shortcomings of the more commonly applied cybersecurity approaches
5. Discuss the trends in cybersecurity
6. Explain key research issues in applied cybersecurity

Subject Content

- Applied Cybersecurity: Overview
- Applied Cybersecurity: Concepts, Threats, and Fundamental Solutions
- Cybercrime and Digital Forensics
- Cyber Incident Detection, Analysis, and Recovery
- Ethical Hacking
- Cyber Identification and Authentication
- Applied Software and Web Security
- Cybersecurity: Cloud, Mobile, and Wireless Environments
- Cyber Assurance and Risk Management

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	Mandatory Task
Practical	2 hours	20	N	Individual	N
Applied Project	4,000 words and 10 minutes	30	N	Group	N
Final Exam	2 hours	50	N	Individual	N

Teaching Periods

Sydney City Campus - Term 1 (2025)

Sydney City

On-site

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

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO7015_25-SC1_SC_1#subjects)

Spring (2025)

Parramatta - Victoria Rd

On-site

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

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFO7015_25-SPR_PS_1#subjects)