

# CYBER SECURITY AND ETHICAL HACKING, TESTAMUR MAJOR (T145)

Western Sydney University Major Code: T145

Available to students in other Western Sydney University programs?

No

Cyber Security is an essential aspect of today's information systems. The Cyber Security and Ethical Hacking major aims to develop graduates with skills in network security, cloud security, information security, in the ethical and legal aspects of activities in cyber space. With the widespread use of networked systems, protecting these systems from various attacks is more important than ever. Students apply system security knowledge and security protocols, from basic cryptography algorithms to their applications, in computer systems, networked systems, blockchain technologies and crypto currencies. Students learn how to analyse security vulnerabilities and to implement cybersecurity solutions using ethical hacking techniques and following legal and professional standards.

## Location

Campus	Attendance	Mode	Advice
Parramatta Victoria Road Campus	Full-time	Internal	cdms@westernsydney.edu.au
Parramatta Victoria Road Campus	Part-time	Internal	cdms@westernsydney.edu.au
Penrith Campus	Full-time	Internal	cdms@westernsydney.edu.au
Penrith Campus	Part-time	Internal	cdms@westernsydney.edu.au

This sequence applies to students who commenced in Autumn 2023.

Students must complete 80 credit points as follows

Subject	Title	Credit Points
MATH 1006	Discrete Mathematics	10
COMP 3007	Computer Networks and Internets	10
COMP 2028	Cryptography, Cryptocurrencies and Blockchain	10
COMP 3037	Cloud Security	10
INFO 3002	Ethical Hacking Principles and Practice	10
INFO 2004	Cyber Crime and Social Engineering	10
INFO 3014	Digital Investigations and Forensics	10
Select one of the following:		10
INFO 3015	Internet of Things and Smart Environments	
COMP 3036	Full Stack Development	

This sequence applies to students who commenced in Spring 2023.

If you commenced in Autumn 2023 please refer to the Autumn 2023 Sequence tab for details.

Students must complete 80 credit points as follows

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COMP 3007	Computer Networks and Internets	10
COMP 2028	Cryptography, Cryptocurrencies and Blockchain	10
COMP 3037	Cloud Security	10

INFO 3002	Ethical Hacking Principles and Practice	10
INFO 2004	Cyber Crime and Social Engineering	10
INFO 3014	Digital Investigations and Forensics	10
Select one of the following:		10

INFO 3015	Internet of Things and Smart Environments	
COMP 3036	Full Stack Development	

\*\* Select one of the following 10

\*\* Students who completed MATH 1006 in the program core, MUST complete one of the following as part of their major: MATH 2009, MATH 2010

MATH 2009	Introduction to Data Science	
MATH 2010	Linear Algebra	

\*\* Students who completed MATH 1038 in the program core, MUST complete one of the following as part of their major: MATH 1006, MATH 2009, MATH 2010

MATH 1006	Discrete Mathematics	
MATH 2009	Introduction to Data Science	
MATH 2010	Linear Algebra	

Bachelor of Information and Communications Technology (3639) (<https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelor-information-communications-technology/>)

Bachelor of Information and Communications Technology (Advanced) (3684) (<https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelor-information-communications-technology-advanced/>)