



THE UNIVERSITY OF
WAIKATO
Te Whare Wānanga o Waikato

Master of Cyber Security



COMPUTING & MATHEMATICAL SCIENCES
ROROHIKO ME NGĀ PŪTAIAO PĀNGARAU

Master of Cyber Security (MCS)

There is a growing global demand for skilled cyber security professionals, with demand growing at 3.5 times the pace of the overall job market.

The University of Waikato is the first New Zealand university to offer a masters degree in Cyber Security that trains new security professionals and converts existing computer science and IT professionals to be cyber security specialists.

The Master of Cyber Security covers the technical, legal and managerial aspects of cyber security and addresses new topics as they emerge in cyber space.

The degree introduces students to the frontiers of knowledge and trains them in the relevant techniques of cyber security. Students will gain an advanced understanding and knowledge of cyber security from the point of view of preventative security (such as applied cryptography), detection of security breaches, and offensive security (such as computer system penetration testing). At the same time, students will gain an advanced understanding and knowledge of cloud computing technologies, computer infrastructure, legal aspects of cyber security and a capacity to think innovatively and be able to use research-led knowledge to advance professional practice.



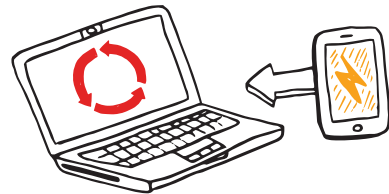
Your career options

- Chief Information Security Officer
- Entrepreneurs of new security products and services
- Penetration Testers/Security Assessment Consultants
- IT Security Consultants

Structure

For students with an undergraduate degree, this degree requires a total of 180 points consisting of 75 points of compulsory 500-level taught papers, a 60 point dissertation, and another 45 points of appropriate 500-level taught papers.

Students with an honours degree or a postgraduate diploma are required to complete 120 points of the compulsory taught papers, including a 60-point dissertation.



waikato.ac.nz/go/cybersecurity
crow.org.nz

Students will be required to take the following papers:

Compulsory Cyber Security papers (total of 120 points):

- COMP518 Cyber Security (15 points)
- COMP527 Cloud Computing Technologies and Security (15 points)
- LEGAL526 Legal Aspects of Cyber Security (30 points)
- COMP592 Dissertation* (60 points).

Compulsory Infrastructure paper – students choose one from the following three papers

- COMP501 Topics in Operating Systems (15 points)
- COMP513 Topics in Computer Networks (15 points)
- COMP514 Carrier and ISP Networks (15 points)

Other recommended papers:

- COMP502 Cryptography (15 points)

*Capable students may opt for COMP593 Computer Science Thesis (90 points) as an alternative to COMP592, subject to the Dean's approval. This will result in 15 points remaining for a relevant 500 level paper, on top of the compulsory 15 point Infrastructure paper.



SJOERD DE FEIJTER

Degree: MCS (Master of Cyber Security)

Sir William Gallagher Cyber Security Scholarship



With the goal of becoming a cyber-security technician for the Government Communications Security Bureau, I am making a conscious effort to make the most of my time at university.

Following schooling at Trident High School in Whakatane, I began a degree at the University of Waikato due to the excellent reputation of the Computer Science department.

I've been able to apply the technical knowledge gained from study at my part-time job at Gallagher Group and was recently awarded the Sir William Gallagher Cyber Security Scholarship.

The scholarship has allowed me to further my study towards a Master of Cyber Security this year, which has proven to be an interesting programme and had a positive impact on my working career.



Scholarship information

The Sir William Gallagher Cyber Security Scholarship was established in 2015 and the healthAlliance Cyber Security Scholarship was established in 2017. These scholarships were set up to support academically talented students studying towards a Master of Cyber Security qualification at The University of Waikato. These scholarships are available to domestic students only.

The value of each scholarship is NZ\$25,000 for students undertaking a 180 point MCS and NZ\$20,000 for a 120 point MCS.

For more information visit:
waikato.ac.nz/go/cyber-security-scholarship

International Excellence Scholarship

This scholarship is aimed at high achieving international students who can demonstrate academic excellence.

Scholarships are available for students from a number of different countries including: China, India, Indonesia, Malaysia, Nepal, Vietnam, Hong Kong, Singapore, Thailand, Taiwan, Japan, Republic of South Korea and the Philippines.

For a full list of eligible countries and for more information please visit:

waikato.ac.nz/go/excellence-scholarship

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WHERE THE WORLD IS GOING

TE AHUNGA O TE AO