Bachelor of Cyber Security

Structure

3 years FTE 144 UoC

Core 60 UoC

COMP1511 COMP1521	Programming Fundamentals Computer Systems Fundamentals	Existing Existing
COMP1441 MATH1081 COMP2521	Foundations of Security (simplified on 6441) Discrete Mathematics Data Structures and Algorithms	Based on Existing Existing Existing
COMP1???	Human Centric Security Cyber Security Workshop 1 (simplified COMP6841)	New Based on Existing
COMP2841	Cyber Security Workshop 2 – Pen testing	New
COMP3841	Workshop 3 - Professional Capstone — red/blue teaming	New
COMP4920	Professional Issues and Ethics in Information Technology (or equivalent)	Existing

PLUS General Education 12 UoC

Any two GE subjects taken outside the Faculty

PLUS Cyber Electives 36 UoC

At least 36 UoC drawn from the cyber electives (list below)

Subject to

COMP Requirement

Must take at least 36 UoC in COMP courses at 3000 level or above

Cyber Electives

- COMP6??? Cloud Security
- COMP6443 Web Application Security (or Extended/6843)
- COMP6447 System and Software Security Assessment
- COMP6??? Hardware Security new
- COMP6445 Digital Forensics (or Extended/6845)
- COMP6453 Applied Cryptography new
- COMP2??? Privacy Engineering new
- COMP2??? Introduction to Cryptography new
- COMP6131 Software Security Analysis new
- MATH3411 Information, Codes and Ciphers
- COMP9417 Machine Learning and data mining
- COMP9444 Neural Networks and Deep Learning

- COMP4337 Network Security (currently Securing Fixed and Wireless Networks)
- COMP9418 Advanced Topics in Statistical Machine Learning
- LAWS8398 Introduction to Law and Policy for Cyber Security
- PSYC1001 Psychology 1A
- PSYC1011 Psychology 1B
- SOSS1000 Policy and Society
- PSYC2061 Social and Developmental Psychology

Named Majors (specialisations)

Students can optionally take certain combinations of courses as a named specialisation. Students may qualify for more than one specialisation. If students do not qualify for any specialisations they are awarded Bachelor of Cyber Security.

Bachelor of Cyber Security (Security Engineering)

4 courses from:

- COMP6??? Cloud Security
- COMP6443 Web Application Security (or Extended/6843)
- COMP6447 System and Software Security Assessment
- COMP6??? Hardware Security
- COMP6445 Digital Forensics (or Extended/6845)

Bachelor of Cyber Security (Information Security)

4 courses from:

- COMP6453 Applied Cryptography
- COMP2??? Privacy Engineering
- COMP6131 Software Security Analysis
- MATH3411 Information, Codes and Ciphers

Bachelor of Cyber Security (AI and Data)

4 courses from:

- COMP4337 Network Security
- COMP9417 Machine Learning and data mining
- COMP3411 Artificial Intelligence
- COMP9444 Neural Networks and Deep Learning
- COMP9418 Advanced Topics in Statistical Machine Learning

Bachelor of Cyber Security (Human Factors)

4 courses from:

- LAWS8398 Introduction to Law and Policy for Cyber Security
- PSYC1001 Psychology 1A
- PSYC1011 Psychology 1B
- SOSS1000 Policy and Society
- PSYC2061 Social and Developmental Psychology

Bachelor of Cyber Security (Hons)

Structure

4 years FTE 192 UoC

Core 60 UoC

As for 3 year degree

PLUS General Education (12 UoC)

Any two GE subjects taken outside the Faculty

PLUS Cyber Electives (54 UoC)

At least 54 UoC drawn from the cyber electives (list below)

PLUS 3 Cyber Hons Courses (18 UoC)

Subject to

COMP Requirement

Must take at least 54 UoC in COMP courses at 3000 level or above

ADVANCED Requirement

Must take at least 30 UoC in courses at 4000 or above.

POSTGRAD Indicative Structure

Graduate Certificate in Cyber Security (24 UoC)

COMP9??? - Foundations of Cyber Security (

COMP9??? - Principles of Security Engineering

LAWS8398 - Introduction to Law and Policy for Cyber Security

COMP1841 - Cyber Security Workshop (need to rebadge?)

Graduate Diploma in Cyber Security (48 UoC)

Certificate courses (24 UoC)

As for the certificate

PLUS

Elective (48 UoC)

4 courses from the Security Elective list (can these include 1000 or 2000 level courses?)

Masters in Cyber Security (96 UoC)

Diploma Courses (48 UoC)

As for the Diploma

PLUS

COMP Electives (24 UoC)

4 COMP Courses (expect these to be RPL-ed for students with cognate undergrad degree)

PLUS

Project / Capstone / Research (18 UoC)

PLUS

Free Elective (6 UoC)

SUBJECT TO

Advanced Disciplinary Content

Cyber Electives at 4000 level and above of at least 48 UoC