

# PROGRAM PLAN

## BACHELOR OF COMPUTER SCIENCE

### Cyber Security Major

**PROGRAM OPTION:**  
Commencing in Semester 2

**START DATE:**  
2020 - 2021

**LOCATION:**  
Callaghan

This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek advice from your Academic Program Advisor to ensure you remain on track.

 [PROGRAM HANDBOOK](#)

 [COURSE HANDBOOK](#)

**NAME:**

**STUDENT NO.:**

#### COURSE STATUS KEY

**C** = Completed

**En** = Enrolled

**NS** = Not Started

Year	Semester	Course Code	Course Name	Requirement
YEAR 1	SEMESTER 1	SENG1050	Web Technologies	CORE
		SENG1110	Object Oriented Programming	CORE
		MATH1110	Mathematics for Engineering, Science and Technology 1	CORE <i>Replaces option of MATH1110 OR MATH1210</i>
		MATH1510	Discrete Mathematics	CORE
	SEMESTER 2	COMP1140	Database and Information Management	CORE
		COMP2230	Algorithms	CORE
		COMP2240	Operating Systems	CORE
		SENG2250	System and Network Security	CORE
YEAR 2	SEMESTER 1	COMP1010	Computing Fundamentals	CORE
		DIRECTED		DIRECTED
		ELECTIVE		ELECTIVE
		SENG1120	Data Structures	CORE
	SEMESTER 2	COMP2270	Theory of Computation	CORE
		COMP3260	Data Security	COMPULSORY
		INFT2031	Systems and Network Administration	COMPULSORY
		SENG2130	Systems Analysis and Design	CORE
YEAR 3	SEMESTER 1	COMP3500	Security Attacks: Analysis and Mitigation Strategies	COMPULSORY
		COMP3851B	Computer Science and Information Technology Work Integrated Learning Part B	CORE
		INFT3800	Professional Practice in Information Technology	CORE
		DIRECTED		DIRECTED
	SEMESTER 2	COMP3600	Security Standards and Practices in Industry	COMPULSORY
		COMP3851A	Computer Science and Information Technology Work Integrated Learning Part A	CORE
		ELEC3500	Telecommunication Networks	CORE
		SENG2260	Human-Computer Interaction	CORE
YEAR 4	SEMESTER 1	COMP3500	Security Attacks: Analysis and Mitigation Strategies	COMPULSORY
		COMP3851B	Computer Science and Information Technology Work Integrated Learning Part B	CORE
		INFT3800	Professional Practice in Information Technology	CORE
		DIRECTED		DIRECTED
	SEMESTER 2	COMP3500	Security Attacks: Analysis and Mitigation Strategies	COMPULSORY
		COMP3851B	Computer Science and Information Technology Work Integrated Learning Part B	CORE
		INFT3800	Professional Practice in Information Technology	CORE
		DIRECTED		DIRECTED

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To be eligible to graduate make sure you have completed 240 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core and Compulsory courses – 210 units.
- Directed courses – 20 units.
- Elective courses – 10 units.
- The duration of this program is 3 years full-time (40 units per semester) or part-time equivalent.
- The maximum time to complete this program is 8 years.
- **Prior to 2021**, students could choose to complete either MATH1110 **OR** MATH1210. Choice of maths courses is based on your assumed knowledge. To find out which MATH course you should enrol in please see the [Enrolling in Maths information](#). More information is in your [Program Handbook](#).
- **After 2021**, the option to do MATH1210 has been removed from the program. **From 2021 onwards**: if you have not yet completed MATH1210 you must complete MATH1110.
- Transition information – students who commenced study in this program prior to 2020 may be affected by transition arrangements. Please refer to the [Program Handbook](#) for further information.



Some courses have assumed knowledge and/or requisites, please refer to the individual [Course Handbook](#). Please refer to the [Program Handbook](#) for specific information on program structure. If you are intending varying from this program plan please seek advice from your [Academic Program Advisor](#).

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#### DIRECTED COURSES

##### CYBER SECURITY MAJOR

Complete 20 units from:

**COMP3330: Machine Intelligence**  
**COMP3340: Data Mining**  
**COMP3350: Advanced Database**  
**INFT2051: Mobile Application Programming**  
**INFT3050: Web Programming**  
**INFT3100: Project Management**  
**SENG3320: Software Verification and Validation**  
**SENG4430: Software Quality**