STUDY PLAN
BACHELOR OF CYBERSECURITY

For student admitted from SP51/2024 onwards

COURSE STRUCTURE FOR BACHELOR OF CYBERSECURITY

James Cook University Singapore

8 core subjects Level 1	➕	8 core subjects Level 2	➕	7 core subjects Level 3	➕	1 any Level 1/2/3 UG elective

GENERAL INFORMATION

1) 1 subject is equal to 3 credit points.

2) CP/MA subjects refers to Computing Science/ IT subjects/ Mathematics/ Statistics subjects (Subjects with prefix MA & CP)

	Subject Code	Subject Name	Prerequisite	Year 2025			Year 2026		
				TR1S 2025	TR2 2025	TR3 2025	TR1S 2026	TR2 2026	TR3 2026
Core subjects Level 1	CP1401	Problem Solving and Programming I		√	√	√	√	√	√
	CP1402	Internet Fundamentals		√	√	√	√	√	√
	CP1404	Programming II	CP1401	√	√	√	√	√	√
	CP1406	Web Design and Development		√		√	√		√
	MA1000 **OR** **Select 1**	Mathematical Foundations	MA1020 OR Maths B OR Maths C	√	√	√	√	√	√
	MA1020	Preparatory Mathematics	This subject is not suitable for anyone who has studied M	√			√		
	MA1580	Foundations of Data Science	MA1000 or MA1020 or Maths B	√		√	√		√
	CP1409	Operating Systems and Shell Scripting		√		√	√		√
	CP1410	Cybersecurity and Cryptography Fundamentals	CP1402 and CP1409	√		√	√		√
Core subjects Level 2	CP2403	Information Processing and Visualisation	Minimum 12 credit points of subjects. (Inadmissible with CP3413)	√		√	√		√
	CP2404	Database Modelling		√		√	√		√
	CP2406	Programming III	CP1404	√		√	√		√
	CP2408	Design Thinking II	CP1403	√	√	√	√	√	√
	CP2409	Network Forensics and Data Communications	CP1402	√					√
	MA2011 **OR** **Select 1**	Discrete Mathematics for Computing	Algebra and arithmetic to a year 10 standard		√			√	
	CP2421	Machine Learning for Cybersecurity	CP1401 and MA1580		√			√	
	CP2422	Cloud and Data Centre Security	CP1401		√			√	
	CP2423	Cybersecurity Infrastructure and Management	CP1401 and CP1410		√			√	
Core subjects Level 3	CP3403	Data Mining	(CP2403 and CP2404) or (18 credit points of subjects including 6 credit points of CP subjects).Inadmissible Subject : CP5634	√	√	√	√	√	√
	CP3405	Design Thinking III	CP2408	√	√	√	√	√	√
	CP3406 **OR** **Select 1**	Mobile Computing	CP1404 and 18 credit points of CP subjects	√		√	√		√
	CP3407	Advanced Software Engineering	CP1404 and 18 credit points of CP subjects	√	√		√	√	
	CP3414	Ethical Hacking	CP2422, CP2423	√	√	√	√	√	√
	CP3416	Behavioural Cybersecurity	36 credit points of CP or MA subjects		√			√	
	CP3417	Cybersecurity for Operational Technology	CP2423	√			√		
	CP3101 **OR** **Select 1**	Professional Internship	36CP OF CP SUBJECTS	√	√	√	√	√	√
	CP3418	Best Practices in Cybersecurity	CP3414	√	√		√	√	

PLUS

Select 3 credit points of **Level 1, 2 or 3** subject. (1 subject) * Pls refer to page 2 for a list of some elective subjects.

* Student can choose subjects from other undergraduate programs (such as BBUS, BCOM, BTHE,..), please make sure you meet the pre-requisite of that subject.

Note: Changes that are recently made will be highlighted in yellow and/or red font.

Disclaimer: The above information is correct as below date. Due to unforeseen situation/s, there might be change/s done in subject offerings before each trimester. Your understanding is greatly appreciated.

Updated on 19 Aug 2025