

BACHELOR OF INFORMATION TECHNOLOGY
- Structure and Subjects Offerings Information



COURSE STRUCTURE



Links to Helpful Resources:

- To enrol subject(s) via the MyStudent portal: [Basic Steps to Self-enrol subjects](#)
- To withdraw subject(s) via the MyStudent portal: [Step to Withdraw subjects](#)
- [Course and Subject Handbook](#)
- [StudentFirst](#) (To check your timetable)

				√ = Offered			
				Year 2026	Year 2027		
	Subject Code	Subject Name	Pre-requisites & Anti-requisites Note: 1 subject has 3 credit-point value	TR3	TR1S	TR2	TR3
Core Subjects Level 1	CP1401	Problem Solving and Programming I		✓	✓	✓	✓
	CP1402	Internet Fundamentals		✓	✓	✓	✓
	CP1403	Design Thinking I		✓	✓	✓	✓
	CP1404	Programming II	CP1401	✓	✓	✓	✓
	CP1406	Web Design and Development		✓	✓		✓
	CP1407	Introductory Machine Learning and Data Science			✓	✓	
Core Subjects Level 2	CP2403	Information Processing and Visualisation	Minimum of 12 credit points of subjects Anti-requisite: CP3413	✓		✓	
	CP2404	Database Modelling		✓	✓		✓
	CP2406	Programming III	CP1404	✓	✓	✓	
	CP2408	Design Thinking II	CP1403 or Admission to Bachelor of Cybersecurity	✓	✓	✓	✓
	CP2414	Network Security	CP1402 OR Admission to Bachelor of Business and 3 credit points of CP subjects	✓	✓		✓
	CP2501	Cloud Computing	Anti-requisite: CP3511	✓	✓		✓
	MA2011	Discrete Mathematics for Computing	Algebra and arithmetic to a year 10 standard	✓		✓	✓
Core Subjects Level 3	CP3403	Data Mining	(CP2403 and CP2404) OR (18 credit points of undergraduate subjects including 6 credit points of CP subjects)	✓	✓		✓
	CP3404	Information Security	CP2414 OR (18 credit points of subjects including CP1402)	✓	✓		✓
	CP3405	Design Thinking III	CP2408	✓	✓	✓	✓
	CP3406	Mobile Computing	CP1404 and 18 credit points of CP subjects	✓		✓	✓
	CP3407	Advanced Software Engineering	CP1404 and 18 credit points of CP subjects		✓	✓	
	CP3501	Deep Learning			✓	✓	
	* CP3101 CP3102	Professional Internship / Project or Multidisciplinary Project	36 credit points of CP subjects	✓	✓	✓	✓

* CP3101 : To apply for this subject student need to apply to Careers Office at least 1 term ahead (careers-singapore@jcu.edu.au). To extend 1 trimester of studies so Professional Internship is the last subject remaining.

Plus 4 ANY UNDERGRADUATE (UG) ELECTIVE SUBJECTS LEVEL 1/2/3

12 credit points (4 subjects) of any undergraduate subjects: student can choose subjects from other undergraduate programs. Please make sure you meet pre-requisite of that subject)

Recommended subjects: Subjects listed below:

Recommended subjects: Subjects listed below:			Year 2026	Year 2027		
Subject Code	Subject Name	Pre-requisites & Anti-requisites Note: 1 subject has 3 credit-point value	TR3	TR1S	TR2	TR3
CP1409	Operating Systems and Shell Scripting		✓	✓		✓
CP1410	Cybersecurity and Cryptography Fundamentals	CP1402 and CP1409	✓	✓	✓	
CP2405	Collective Intelligence and Entrepreneurship	Minimum of 24 credit points			✓	
CP2409	Network Forensics and Data Communications	CP1402		✓		✓
CP2410	Algorithms and Data Structures	6 credit points of CP subjects	✓		✓	
CP2411	3D Modelling and Animation	6 credit points of CP subjects			✓	
CP2421	Machine Learning for Cybersecurity	CP1401 and MA1580			✓	
CP2422	Cloud and Data Center Security	CP1401	✓		✓	✓
CP2423	Cybersecurity Infrastructure and Management	CP1401 and CP1410	✓		✓	✓
CP3414	Ethical Hacking	CP2422 and CP2423	✓	✓	✓	✓
CP3416	Behavioral Cybersecurity	36 credit points of CP or MA subjects within the degree	✓	✓		✓
CP3417	Cybersecurity for Operational Technology	CP2423		✓		✓
CP3418	Best Practices in Cybersecurity	CP3414	✓		✓	✓
MA1000	Mathematical Foundations	MA1020 OR High school subjects: Mathematical Methods or Specialist Mathematics (or equivalent such as Maths B or Maths C)		✓	✓	

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.