BACHELOR OF INFORMATION TECHNOLOGY

Applicable for students who joined BIT from SP52/2023 onwards
Students commences in Carousel/Block intake(SP82, SP84, SP86) please refer to page 2 for subjects offering of the respective intake.

JAMES COOK UNIVERSITY SINGAPORE

COURSE STRUCTURE

6 CORE SUBJECTS LEVEL 1 **+** 7 CORE SUBJECTS LEVEL 2 **+** 7 CORE SUBJECTS LEVEL 3 **+** 4 ANY UNDERGRADUATE (UG) ELECTIVE SUBJECTS LEVEL 1/2/3

IMPORTANT NOTE :

1) 1 subject is equivalent to 3 credit points.

2) Maximum 10 Level 1 subjects (including core subjects, elective subjects and advanced standing components) are allowed for enrolment in BIT program.

3) Pay attention at the requirement of subjects at the "Pre-requisites" column

	Subject Code	Subject Name	Prerequisites	SP51 2024	TR2 2024	TR3 2024	TR1S 25	TR2 2025	TR3 2025
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 Scie		√	√		√	√	
Core Subjects Level 2	CP2403	Information Processing and Visualisation	Minimum 12 credit points of subjects.(Inadmissi		√	√		√	√
	CP2404	Database Modelling		√	√		√		√
	CP2406	Programming III	CP1404	√		√	√		√
	CP2408	Design Thinking II	CP1403	√	√	√	√		√
	CP2414	Network Security	For BBUS Student: 3 credit points of CP subjects;	√		√	√		√
	CP2501	Cloud Computing	Inadmissible Subject Combinations: 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 sub	√	√		√	√	
	CP3404	Information Security	(CP2414) or (18 credit points of subjects includin		√		√		√
	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 ** CP3103	Professional Internship or Multidisciplinary Project or Independent Project		✓	✓	✓	✓	✓	✓

* 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.

** CP3103 requires you to be already in paid employment in an organization to develop an independent IT related project for the workplace/industry. Students will be required to prepare a project proposal relevant to their degree (which would require subject coordinator/lecturer approval).

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:

	Subject Name	Prerequisites	SP51 2024	TR2 2024	TR3 2024	TR1S 2025	TR2 2025	TR3 2025
CP1409	Operating Systems and Shell Scripting		√	√	√		√	√
CP1410	Cybersecurity and Cryptography Fundamenta	CP1402 and CP1409	√	√	√		√	√
CP2405	Collective Intelligence and Entrepreneurship	Minimum 24 credit points.	√	√		√		
CP2409	Network Forensics and Data Communication	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 Centre Security	CP1401		√	√		√	√
CP2423	Cybersecurity Infrastructure and Managemen	CP1401 and CP1410	√		√		√	√
CP2424	Cybersecurity Risk Management	12 credit points of CP subjects including CP1410	√	√		√		
CP3414	Ethical Hacking	CP2422, CP2423	√	√	√	√	√	√
CP3415	Strategy and Governance	CP2424	√		√		√	
CP3416	Behavioural Cybersecurity	36 credit points of CP or MA subjects	√		√		√	
CP3417	Cybersecurity for Operational Technology	CP2423		√		√		√
CP3418	Best Practices in Cybersecurity	CP3414	√	√		√		√
MA1000	Mathematical Foundations	MA1020 OR Maths B OR Maths C	√	√	√	√		√
MA1020	Preparatory Mathematics		√	√	√	√	√	√

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

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.

SUBJECTS OFFERED IN CAROUSEL / BLOCK INTAKES (SP82,84,86)

(Applicable for students whose first study period is in Carousel/Block intake i.e. SP82 or SP84 or SP86)

General Information
1) 1 Subject is equal to 3 credit points
2) The subject's level is indicated in the subject code after the prefix, eg: CP1401 = Level 1

IMPORTANT NOTE:

Maximum enrolment load 2 subjects in Carousell intakes

From the second study period onwards, all students must enrol in Trimester intakes (for eg: TR2/24, TR3/24, TR1/25)
 - For students who commences in SP82/24 , second study period will be TR2/24, followed by TR3/24, TR1/25, etc.
 - For students who commences in SP84/24 , second study period will be TR3/24, followed by TR1/25, TR2/25, etc.
 - For students who commences in SP86/24 , second study period will be TR1/25, followed by TR2/25, TR3/25, etc.
Please refer to page 1 to check subjects offering in TR1, TR2, TR3 intakes

BACHELOR OF INFORMATION TECHNOLOGY: CORE SUBJECTS			Year 2024
Subjects codes	Subject title	Pre-requisites	SP82, SP84, SP86
CP1401	Problem Solving and Programming I		✓
BACHELOR OF INFORMATION TECHNOLOGY: ELECTIVE SUBJECTS			Year 2024
Subjects codes	Subject title	Pre-requisites	SP82, SP84, SP86
CU1022	Developing Academic Skills		✓
BU1104	Introduction to Management Concepts and Application		✓
BU1105	Professional and Academic Skills for Business		✓
SS1111	Introduction to Mental Health		✓

Notes:
Changes that are recently made will be highlighted in yellow and/or red fonts.
Subjects for 2025 will be made available by middle of 2024
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.

Updated on 26 December 2023

List of some elective subjects and Guideline how to choose elective subjects:

Please refer to the Option Line ("O") on the My Study Plan on eStudent & page 1 of this study plan to know criteria of in the respective elective & select the subjects accordingly. The subject's level is indicated in the prefix of its code, eg: PY1101 = Level 1, BX2012 = Level 2, CP3401 = Level 3.

Please check whether you meet the pre-requisite requirement of that subject, and whether the subject is offered in that trimester. You can read up the subject information including pre-requisite requirements here: Subject Search

You will also need to check the Timetable via StudentFirst when it is released to make sure no clashes with the core subjects you selected

College of Science and Engineering

Subject Code	Subject Name	Pre-requisite	SP51	TR2	TR3	TR1S	TR2	TR3
			2024			**2025**		
CP1405	Gamification		√	√		√		
CP1407	Introductory Machine Learning and Data Science		√	√		√	√	
CP1409	Operating Systems and Shell Scripting		√		√		√	√
CP1410	Cybersecurity and Cryptography Fundamentals	CP1402 and CP1409	√		√		√	√
CP2405	Collective Intelligence and Entrepreneurship	Minimum 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	√		√		√	
CP2412	Game Design and Technologies	6 credit points of CP subjects		√		√		
CP2421	Machine Learning for Cybersecurity	CP1401 and MA1580	√			√		√
CP2422	Cloud and Data Centre Security	CP1401		√		√		√
CP2423	Cybersecurity Infrastructure and Management	CP1401 and CP1410	√		√		√	√
CP2424	Cybersecurity Risk Management	12 credit points of CP subjects including CP1410	√	√		√		√
CP3407	Advanced Software Engineering	CP1404 and 18 credit points of CP subjects	√	√		√	√	√
CP3408	Game Engine and Simulation	CP1404 and 18 credit points of CP subjects		√		√		
CP3413	Information Processing and Visualisation	12 credit points of BU/BX subjects (Inadmissible with CP2403)		√		√		√
CP3414	Ethical Hacking	CP2422, CP2423	√	√		√		√
CP3415	Strategy and Governance	CP2424	√		√		√	
CP3416	Behavioural Cybersecurity	36 credit points of CP or MA subjects	√		√		√	
CP3417	Cybersecurity for Operational Technology	CP2423		√		√		√
CP3418	Best Practices in Cybersecurity	CP3414		√		√		√
MA1020	Preparatory Mathematics			√		√		√
MA1000	Mathematical Foundations	MA1020 OR Maths B OR Maths C	√		√		√	
MA1003	Mathematical Techniques	MA1000		√		√		√
MA1580	Foundations of Data Science	MA1000 or MA1020 or Maths B	√		√		√	
MA2000	Mathematics for Scientists and Engineers	MA1003	√			√		
MA2210	Linear Algebra	MA1003. Recommended to complete MA2000.		√		√		
MA2211	Discrete Mathematics	Maths B or MA1020		√		√		
MA2405	Advanced Statistical Modelling	SC2202 AND MA1000		√		√		
MA2830	Data Visualisation			√		√		
MA3212	Optimisation and Operations Research	MA2000 and MA2210		√		√		
MA3405	Statistical Data Mining for Big Data	MA2405 or MA2000 or SC2202	√		√		√	
SC1101	Science, Technology and Truth		√	√		√		√
SC1102	Modelling Natural Systems	MA1020/Senior Maths or equivalent.	√	√	√	√	√	
SC2202	Quantitative Methods in Science	SC1102 OR Students from BBusEnvSc Program (Assume Knowledge: Good understanding of Level 1 science, including at least 2 Level 1 subjects)	√	√		√		
BS1001	Introduction to Biological Processes	(Assumed Knowledge: Good understanding of English to Grade 12 or equivalents.)	√	√		√		
BS1007	Introduction to Biodiversity	(Assumed Knowledge: Good understanding of English to Grade 12 (Queensland) or equivalent)	√		√		√	
EA1110	Evolution of the Earth			√				
EV1005	Environmental Processes and Global Change		√		√		√	
EV1011	Introduction to Sustainability			√		√		√
EV2003	Introduction to Environmental Economics	12 credit points at Level 1		√			√	
EV2011	The Case for Sustainability		√	√			√	
EV2502	Introduction to Geographic Information Systems	4 level 1 subjects	√		√		√	
EV3011	Sustainability in Practice		√		√		√	
EV3110	Environmental and Social Impact Assessment	4 level 2 subjects	√		√		√	

College of Arts, Society and Education

Subject Code	Subject Name	Pre-requisite	SP51	TR2	TR3	TR1S	TR2	TR3
			2024			**2025**		
AN1001	Anthropology: Cultural Diversity in Global Perspective			D		D		D
BA1001	Time, Truth and the Human Condition		D			D		
BA1002	Our Space: Networks, Narrative and the Making of Place			D			D	
SS1111	Introduction to Counselling		D		D	D&E		
SS1112	Multicultural, Child and Adolescent Counselling			D		D&E		D
SY1001	Australian Society: An Introduction to Sociology		D		D		D	

College of Healthcare Sciences *

Subject Code	Subject Name	Pre-requisite	SP51	TR2	TR3	TR1S	TR2	TR3
			2024			**2025**		
PY1101	Exploring Psychology 1			D&E		D&E		D&E
PY1102	Exploring Psychology 2		D&E		D&E		D&E	
PY1103	Critical Thinking in Psychology			D&E		D&E		D&E
PY1106	Communicating Psychology: Listening, Translating and Disseminating		D&E		D&E		D&E	

Please refer to the Study Plan of Bachelor of Psychological Science for further subjects in level 2 & level 3

College of Business, Law and Governance

Subject Code	Subject Name	Pre-requisite	SP51	TR2	TR3	TR1S	TR2	TR3
			2024			**2025**		
BU1002	Accounting for Decision Making		√	√	√	√	√	√
BU1003	Principles of Economics		√	√	√	√	√	√
BU1007	Principles of Data Analysis for Business		√	√	√	√	√	√
BU1104	Introduction to Management Concepts and Application		√	√	√	√	√	√
BU1105	Professional and Academic Skills for Business		√	√	√	√	√	√
BU1108	Marketing Matters		√	√	√	√	√	√
BU1112	Business Law		√	√	√	√	√	√
BX2011	Foundation of Accounting Principles	BU1002/BU1902	√	√	√	√	√	√
BX2014	Principles of Finance	BU1002/BU1902 and BU1007/PY2103 OR Allow to study BU1002/BU1902 concurrently	√	√		√	√	√
BX2016	Data Analytics and Business Modelling	BU1002/BU1902	√		√		√	
BX2019	Accounting Information Systems	6 credit points of BU/BX subjects Assumed knowledge: BU1002/BU1902	√		√		√	
BX2021	Managerial Economics	BU1003 OR BU1903	√		√		√	
BX2022	Macroeconomic Policy	BU1003/BU1903		√		√		√
BX2031	Investment and Portfolio Analysis	BX2014 and BU1007/PY2103	√		√		√	
BX2032	Financial Institutions and Markets			√		√		√
BX2051	Managing People		√	√	√	√	√	√
BX2053	Workforce Economics and Analytics	BU1003 and 12 credit points of subjects		√		√		√
BX2062	Operations Management	9 credit points of subjects	√		√		√	
BX2077	Project Management	18 credit points of subjects	√	√	√	√	√	√
BX2081	Consumer Behaviour	BU1108/BU1808	√		√		√	
BX2082	Advertising, Promotions and Mobile Marketing	BU1108/BU1808 OR Allow to study BU1108 concurrently		√		√		√
BX2084	Sales, Services, Business Development and the Digital Frontier	BU1108	√			√		
BX2091	Tourism and Leisure Management	6 credit points of Level 1 subjects (Inadmissible with TO1005)		√		√		√
BX2094	Conference and Events Management	18 credit points of subjects		√		√		√
BX2122	Econometrics and Big Data Analysis	BU1007 and BU1003/BU1903	√		√		√	
BX2123	Economics and Sustainable Resource Management	BU1003/BU1903/EV2003 Allow to study BU1003/EV2003 concurrently		√		√		√
BX2134	International Economics	BU1003	√		√		√	
BX2135	Global Supply Chain Management	BU1104	√		√		√	
BX2136	Trade Negotiations	BU1105 and BU1112	√		√		√	
BX2174	Evidence Based Business Decision-Making	BU1007/PY2103 and 9 credit points of BU/BX subjects	√	√	√	√	√	√
BX2184	Marketing, Consumerism and Sustainability	BU1108/BU1808	√		√		√	
BX3011	Corporate Financial Accounting	BX2011	√		√		√	
BX3012	Contemporary Issues in Accounting	BU1002/BU1902 and BX2011		√		√		√
BX3013	Strategic Performance Management	BX2011 and BX2012 (Inadmissible with BX3033)		√		√		
BX3014	Auditing and Assurance	BX3011 (Recommended to take BX2112 and BX3112/LA4023 before this subject)	√		√		√	
BX3023	Economic Growth and Sustainable Development	BU1003/BU1903/EV2003		√		√		√
BX3024	Economics of Social Policy	BU1003/BU1903	√		√		√	
BX3031	Multinational Business Finance	BX2014		√		√		√
BX3032	Advanced Business Modelling	BX2014 and BX2016	√		√		√	
BX3054	Contemporary Issues in Human Resource Management	42 credit points of subjects including BX2051	√		√		√	
BX3061	International Business	18 credit points of subjects	√		√		√	
BX3081	Social Media Marketing	BU1108/BU1808 and 18 credit points of subjects		√	√		√	√
BX3082	International Marketing in the Global Village	BU1108/BU1808 and 18 credit points of subjects	√		√		√	
BX3095	Visitor and Crowd Behaviour Management	18 credit points of subjects including BX2091 or TO2051	√		√		√	
BX3124	Behavioural Economics for Sustainable Policy	BU1003/BU1903/EV2003		√		√		√
BX3133	Financial Risk Management	BX2014 and BX2032		√		√		√
BX3134	Finance of International Trade	BU1002/BU1902 and BU1003/BU1903	√	√		√	√	√
BX3135	Credit and Lending Decisions	BU1002/BU1902 and BU1003/BU1903	√		√		√	
BX3136	Treasury Management	BU1002/BU1902 and BU1003/BU1903	√		√		√	
BX3137	International Trade Law	18 credit points of level 2 or level 3 BX subjects including BX2136		√		√		√
BX3138	Contemporary Issues in International Trade	12 credit points of level 2 or level 3 BX subjects		√		√		√
BX3152	Managing a Global Workforce	18 credit points of subjects	√		√		√	
BX3172	Management Accounting for Non-Accountants	BU1002/BU1902 and 18 credit points of subjects (Inadmissible with BX2012)	√		√		√	
BX3173	Innovation Driven Entrepreneurship	18 credit points of subjects	√	√		√	√	√
BX3174	Strategic Management and Leadership	18 credit points Level 1 or Level 2 subjects	√	√		√	√	√
BX3182	Digital Analytics for Marketing	BU1007 and BU1108 and 12 credit points of subjects (Inadmissible with BX3181)	√		√		√	
BX3186	Marketing for Social Change	24 credit points of subjects or as approved by the subject coordinator	√			√		
BX3194	Destination Management and Planning	18 credit points of subjects including BX2091 or TO2051		√		√		√
BX3236	International Political Economy	BU1104		√		√		√
EC1010	Foundations in Microeconomics			√			√	
EC1020	Foundations in Macroeconomics		√			√		√

Updated on 13 Mar 2024