# STUDY PLAN
# BACHELOR OF CYBERSECURITY

**For student admitted from SP51/2024 onwards**

**COURSE STRUCTURE FOR BACHELOR OF CYBERSECURITY**

| 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 2024 | | | Year 2025 | | |
|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | SP51 2024 | TR2 2024 | TR3 2024 | TR1S 2025 | TR2 2025 | TR3 2025 |
| 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 |  | √ | √ | √ | √ | √ | √ |
|  | 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 21 March 2024*

# 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 | 2024 SP51 | 2024 TR2 | 2024 TR3 | 2025 TR1S | 2025 TR2 | 2025 TR3 |
|---|---|---|---|---|---|---|---|---|
| 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 (Inadmissable 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 | 2024 SP51 | 2024 TR2 | 2024 TR3 | 2025 TR1S | 2025 TR2 | 2025 TR3 |
|---|---|---|---|---|---|---|---|---|
| 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 | 2024 SP51 | 2024 TR2 | 2024 TR3 | 2025 TR1S | 2025 TR2 | 2025 TR3 |
|---|---|---|---|---|---|---|---|---|
| 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 Pyschological Science for further subjects in level 2 & level 3

## College of Business, Law and Governance

| Subject Code | Subject Name | Pre-requisite | 2024 SP51 | 2024 TR2 | 2024 TR3 | 2025 TR1S | 2025 TR2 | 2025 TR3 |
|---|---|---|---|---|---|---|---|---|
| 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 (Inadmissable 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 (Inadmissable 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