

Bachelor of Computer Science – Cybersecurity BA-CS

Semester 2 | 2022

Recommended Sequence

Units are listed on your Course Planner in a recommended sequence. However, this can be amended depending on unit availability, unit progression, timetabling and the semester in which you commenced your program.

How to use your Course Planner

Refer to the below table to help explain what units are required each semester throughout your course. The units in your planner are colour-coded to assist you with mapping out your studies.

Year One

| Semester 1 | | |
|------------|---------------------------------|------------------------|
| Unit Code | Unit Name | Pre-requisites |
| COS10009 | Introduction to Programming | Nil |
| COS10011 | Creating Web Applications | Co-requisite: COS10009 |
| COS10003 | Computer and Logic Essentials | Nil |
| TNE10006 | Networks and Switching | Nil |
| Semester 2 | | |
| COS20007 | Object Oriented Programming | COS20007 |
| TNE20002 | Network Routing Principles | TNE10006 |
| COS20015 | Fundamentals of Data Management | COS10009 |
| | Elective 1 | |

Course Information

This course has 24 units (300 credit points) consisting of

8 Core Units

100 credit points

A set of compulsory units you MUST complete as part of your Course.

8 Cybersecurity Major Units

100 credit points

A set of compulsory units you MUST complete as part of your Course.

8 Elective Units

100 credit points

A combination of elective units / second-major / co-major or a Minor

Year Two

| Semester 1 | | |
|------------|-------------------------------|--------------------------------|
| Unit Code | Unit Name | Pre-requisites |
| COS30015 | IT Security | COS10009 & COS10011 & TNE10006 |
| SWE20001 | Managing Software Projects | COS20007 |
| TNE30009 | Network Security & Resilience | TNE10006 |
| | Elective 2 | |
| Semester 2 | | |
| ICT30010 | eForensic Fundamentals | TNE10006 |
| TNE30012 | Secure Remote Access Networks | TNE20002 |
| | Elective 3 | |
| | Elective 4 | |

All commencing students of Master, Degree, Diploma and Foundation courses will be automatically registered for the **Academic Integrity Training Module** in the first semester (Note: Students articulating from Foundation Studies are expected to undertake this unit as a refresher). There are 4 topics in this online module that are recommended for completion during Week 1-4 of your commencing study period. At the end of this module, students are required to complete a quiz comprised of 10 questions and achieve a score of at least 90%.

Year Three

| Semester 1 | | |
|------------|---------------------------------------|--|
| Unit Code | Unit Name | Pre-requisites |
| SWE40001 | Software Engineering Project A | COS20007 |
| INF30020 | Information Systems Risk and Security | 100 Credit Points & INF10003/COS20007/SWE20004 |
| | Elective 5 | |
| | Elective 6 | |
| Semester 2 | | |
| SWE40002 | Software Engineering Project B | SWE40001 |
| ICT30005 | Professional Issues in IT | 200 Credit Points |
| | Elective 7 | |
| | Elective 8 | |

Ministry of Education requires that all NEW Cohorts pursuing Degree course (International and Malaysian) students must take the MPU units as a prerequisite for the award of their degree.

- Malaysian students: Must take and pass the units as a prerequisite for the award of their degree.
- International students: Must attempt all coursework and final exam as a prerequisite for the award of their degree

| Recommended Elective Units | | | |
|----------------------------|---|---------------------|-----------------|
| Unit Code | Unit Name | Pre-requisites | Offered in |
| COS30047 | Security Operations Centre | TNE30009 | Semester 1 only |
| COS10004 | Computer Systems | Nil | Semester 2 only |
| COS20030 | Malware Analysis | TNE10006 | Semester 2 only |
| COS20019 | Cloud Computing Architecture | COS10011 & TNE10006 | Semester 1 only |
| COS30019 | Introduction to Artificial Intelligence | COS20007 | Semester 1 & 2 |
| Minor Big Data Analytics | | | |
| COS10022 | Introduction to Data Science | NIL | Semester 1 & 2 |
| COS10082 | Applied Analytics in Business | NIL | Semester 2 only |
| COS20083 | Advanced Data Analytics | COS10022 & COS10009 | Semester 1 only |
| COS20028 | Big Data Architecture and Application | COS10022 & COS20007 | Semester 2 only |

Notes

- Enrolment in any of the elective unit is subject to:
 - No timetable clash between selected elective units and core / major units
 - Seat availability in the selected electives