

Bachelor of Computer Science – Software Development BA-CS

Semester 1 | 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 course.

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	COS10009			
COS20001	User-Centred Design	Nil			
	Elective 1				
	Elective 2				

Year Two

Semester 1					
Unit Code	Unit Name	Pre-requisites			
COS30017	Software Development for Mobile Devices	COS20007			
SWE20001	Managing Software Projects	COS20007			
COS20015	Fundamentals of Data Management	COS10009			
	Elective 3				
Semester 2					
COS30008	Data Structure and Patterns	COS20007			
COS30041	Creating Secure and Scalable Software	COS20007 & COS10011			
SWE30009	Software Testing and Reliability	COS20007			
	Elective 4				

Year Three

Semester 1					
Unit Code	Unit Name	Pre-requisites			
SWE40001	Software Engineering Project A	COS20007			
ICT30005	Professional Issues in IT	200 Credit Points			
SWE30011	IoT Programming	COS20007 & COS10011			
	Elective 5				
Semester 2					
SWE40002	Software Engineering Project B	SWE40001			
	Elective 6				
	Elective 7				
	Elective 8				

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 colourcoded to assist you with mapping out your studies.

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 Software Development 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

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%.

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

Unit Code	Unit Name	Pre-requisites	Offered in		
COS30043	Interface Design and Development	COS10011 & COS20007	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