COURSE PLANNER



Bachelor of Computer Science – Data Science BA-CS

Intake: Aug/Sept 2025

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.

Year One

Semester '	1 Aug/Sept 2025	
Unit Code	Unit Name	Pre-requisites
COS10009	Introduction to Programming	Nil
COS10026	Web Technology Project	Nil
COS10025	Technology in an Indigenous Context Project	Nil
COS10003	Computer and Logic Essentials	Nil
MPU3272	Integrity and Anti-Corruption (Malaysian and International Students)	Nil
Compostor	•	
	2 Feb/Mar 2026	
COS20007	Object-oriented Programming	COS10009
TNE10006	Networks & Switching	Nil
MGT10010	Ethics of Innovation	Nil
COS10022	Data Science Principles	Nil
MPU3192	Philosophy and Current Issues	Nil
	(Malaysian and International Students)	
Winter Ter	m June 2026	
MPU3212	Bahasa Kebangsaan A	
	(Malaysian students who do not have SPM	Nil
	Bahasa Melayu credit)	

Vear Two

Year i	WO			
Semester	1 Aug/Sept 2026			
Unit Code	Unit Name	Pre-requisites		
COS20031	Database Design Project	COS10009 / COS10026		
COS30045	Data Visualisation	COS10009		
COS10082	Applied Analytics in Business	Nil		
COS30019	Introduction to Artificial Intelligence	COS20007		
MPU3182	Penghayatan Etika dan Peradaban (Malaysian Students Only)	Nil		
MPU3142	Malay Language Communication 2 (International Students Only)	Nil		
Semester 2 Feb/Mar 2027				
COS10004	Computer Systems	Co-req: COS10009		
COS30049	Computing Technology Innovation Project	COS10009 / COS10026		
COS20019	Cloud Computing Architecture	50cp		
COS20083	Advanced Data Analytics	COS10022 & COS10009		
MPU3412	Service Learning	Nil		
Winter Term Jun/Jul 2027				
ICT20016	- Completing Work-Integrated Learning Internship (equivalent to 2 elective units) - Students need to complete at least 12 units to enroll - WIL internship placement can be taken in Year Three			

Year Three

Semester 1 Aug/Sept 2027				
Unit Code	Unit Name	Pre-requisites		
COS40005	Computing Technology Project A	175cp		
COS20028	Big Data Architecture and Application	COS10022 & COS20007		
SWE30003	Software Architecture and Design	COS20007 & 150cp		
Semester 2 Feb/Mar 2028				
COS40006	Computing Technology Project B	COS40005		
SWE40006	Software Deployment and Evolution	COS20031 / SWE30003		
COS30015	IT Security	COS10009 & COS10026 & TNE10006		

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 Data Science Major Units

100 credit points

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

6 Elective Units

75 credit points

A combination of elective units

1 WIL Placement Units

25 credit points

An industry placement in a professional organization, corporation, or an institution.

General Studies/MPU

0 credit points

- * Compulsory units to complete as a prerequisite to graduate (see statement below)
- * Advisable to enroll in Year One
- * Email <u>ltu@swinburne.edu.my</u> for queries

Work-Integrated Learning Placement (3 month) - Offer in Winter/Summer Term

* ICT20016 Completing Work-Integrated Learning Internship (25 credit points).

(before your final semester)

* Students must complete at least 12 units * WIL placement can be taken in Year 3

All commencing students of Master, Degree, Diploma and Foundation programs 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 inthis 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 all the students pursuing Degree program (International and Malaysian) to complete 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