Bachelor of Data Science BA-DS

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

	· 11 · 0			
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		
Semester 2 Feb/Mar 2026				
COS20007	Object-oriented Programming	COS10009		
TNE10006	Networks & Switching	Nil		
COS10022	Data Science Principles	Nil		
COS10082	Applied Analytics in Business	Nil		
MPU3192	Philosophy and Current Issues (Malaysian and International Students)	Nil		
Winter Term June 2026				
MPU3212	Bahasa Kebangsaan A (Malaysian students who do not have SPM Bahasa Melayu credit)	Nil		

Year Two

rear i	WO			
Semester	1 Aug/Sept 2026			
Unit Code	Unit Name	Pre-requisites		
COS20031	Database Design Project	COS10009 / COS10026		
COS30045	Data Visualisation	COS10009		
COS30019	Introduction to Artificial Intelligence	COS20007		
COS30018	Intelligent Systems	COS20007		
MPU3183	Penghayatan Etika dan Peradaban (Malaysian Students Only)	Nil		
MPU3143	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		
Summer 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 2026				
Unit Code	Unit Name	Pre-requisites		
COS40005	Computing Technology Project A	175ср		
COS20028	Big Data Architecture and Application	COS10022 & COS20007		
COS30082	Applied Machine Learning	COS30019 / COS30018		
Semester 2 Feb/Mar 2028				
COS40006	Computing Technology Project B	COS40005		
SWE40006	Software Deployment and Evolution	COS20031 / SWE30003		
SWE30003	Software Architecture and Design	COS20007 & 150cp		

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).
- * Students must complete at least 12 units

 * WIL placement can be taken in Year 3
 (before your final semester)

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 guiz comprised of 10 guestions and achieve a score of at least 90%.

Ministry of Education requires that all NEW Cohorts pursuing Degree program (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