

Bachelor of Computer Science – Software Development

BA-CS

Intake: Feb/Mar 2026

Recommended Sequence

Units are listed on your Program 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 Feb/Mar 2026		
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
Winter Term June 2026		
MPU3212	Bahasa Kebangsaan A (Malaysian students who do not have SPM Bahasa Melayu credit)	Nil
Semester 2 Aug/Sept 2026		
COS20007	Object-oriented Programming	COS10009
TNE10006	Networks & Switching	Nil
COS20019	Cloud Computing Architecture	50cp
INF10024	Business Digitalisation	Nil
MPU3192	Philosophy and Current Issues (Malaysian and International Students)	Nil

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.

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.

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 pre-requisite to graduate (see statement below)

* Advisable to enroll in Year One

* Email ltu@swinburne.edu.my 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)

Year Two

Semester 1 Feb/Mar 2027		
Unit Code	Unit Name	Pre-requisites
COS30043	Interface Design and Development	COS20007 & COS10026
COS20031	Database Design Project	COS10009 / COS10026
COS30019	Introduction to Artificial Intelligence*	COS20007
COS10022	Data Science Principles	Nil
MPU3182	Penghayatan Etika dan Peradaban (Malaysian Students Only)	Nil
MPU3142	Malay Language Communication 2 (International Students Only)	Nil
Semester 2 Aug/Sept 2027		
COS10004	Computer Systems	Co-req : COS10009
COS30049	Computing Technology Innovation Project	COS10009 / COS10026
COS30008	Data Structure and Patterns	COS20007
SWE30009	Software Testing and Reliability	COS20007
MPU3412	Service Learning	Nil
Winter Term Jan 2028		
ICT20016	- Completing Work-Integrated Learning Internship as an exemption to 2 electives - Students need to complete at least 12 units to enroll - WIL internship placement can be taken in Year Three	

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 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 Feb/Mar 2028		
Unit Code	Unit Name	Pre-requisites
COS40005	Computing Technology Project A	175cp
SWE30003	Software Architecture and Design	COS20007 & 150cp
SWE40006	Software Deployment and Evolution	COS20031 / SWE30003
Semester 2 Aug/Sept 2028		
COS40006	Computing Technology Project B	COS40005
COS40003	Concurrent Programming	COS20007
COS30015	IT Security	COS10009 & COS10026 & TNE10006

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

Notes

* Pre-scribed Elective