COURSE PLANNER

Bachelor of Engineering (Honours) (Software)

October Intake | 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

Unit Code	Unit Name	Pre-requisites
**October Intake 2022	Oct 2022**		
ENG10003	Mechanics of Structures	Nil
MTH10012	Calculus and Applications	Nil
**Summer	Jan 2023**		
PHY10001	Energy and Motion	Nil
MTH10013	Linear Algebra and Applications	Nil
**Semester 2	Feb/Mar 2023**		
COS10009	Introduction to Programming	Nil
ENG10001	Engineering, Design and Innovation	Nil
ENG10002	Engineering Materials	Nil
	Elective 1	
**Winter Term	July 2023**		
MPU3212	Bahasa Kebangsaan A *(Malaysian students who do not have SPM Bahasa Melayu credit)*	Nil

Year Two

Unit Code	Unit Name	Pre-requisites
**Semester 3	Aug/Sept 2023**		
COS20007	Object-oriented Programming	COS10009
COS20015	Technology in an Indigenous Context Project	Nil
	Elective 2	
	Elective 3	
**Semester 4	Feb/Mar 2024**		
ENG20009	Engineering Technology Inquiry Project	Nil
TNE20003	Internet and Cybersecurity for Engineering Applications	Nil
COS20019	Cloud Computing Architecture	COS20007
MTH20017	Mathematical Methods and Statistics for Engineering	MTH10012 & MTH10013

Year Three

Unit Code	Unit Name	Pre-requisites
**Semester 5	Aug/Sept 2024**		
ENG20010	Engineering Technology Design Project	Nil
COS30008	Data Structures and Patterns	COS20007
SWE30009	Software Testing and Reliability	COS20007
COS30019	Software Development for Mobile Devices	COS20007
EAT20008	Professional Experience in Engineering#	Introductory Seminar
**Semester 6	Feb/Mar 2025**		
ENG30002	Engineering Technology Sustainability Project	Nil
COS30043	Interface Design and Development	COS20007 & ENG20009
SWE30003	Software Architecture and Design	COS20007
COS30019	Introduction to Artificial Intelligence	COS20007

Year Four

Unit Code	Unit Name	Pre-requisites
**Semester 7	Aug/Sept 2025**		
ENG40005	Engineering Technology Project A	250 credit points
TNE30024	Deploying Secure Engineering Applications Online	TNE20003
ENG40011	Engineering Technology Innovation Project	Nil
COS40003	Concurrent Programming	COS20007
Semester 8| Feb/Mar 2026		
ENG40006	Engineering Technology Project B	ENG40005
COS40007	Artificial Intelligence for Engineering	COS10009 & 100CP
SWE40006	Software Deployment and Evolution	50 credit points
	Elective 4	

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

To qualify for the award of this course, students must complete 33 units (400 credit points) comprising of:

10 Core Units
125 credit points
A set of compulsory units you MUST complete as part of your Course.

18 Software Major Units
225 credit points

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

4 Elective Units
50 credit points
A combination of elective units

1 Industry Placement Unit
0 credit point
A compulsory, not-for-credit unit

General Studies/Mata Pelajaran Umum
*Compulsory units to complete as a pre-requisite to graduate (see statement below)
*Advisable to enrol in Year One
*Email ltu@swinburne.edu.my for queries

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 take and pass the units as a prerequisite for the award of their degree