

COURSE PLANNER

Bachelor of Engineering (Honours) (Software) BH-ESE1

Intake: 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 course.

Year One

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Semester 1 Sept 2025					
Unit Code	Unit Name	Pre-requisites			
COS10009	Introduction to Programming	Nil			
PHY10001	Energy and Motion	Nil			
ENG10001	Humanitarian Engineering Design Project	Nil			
MTH10012	Calculus and Applications	Nil			
MPU3272	Integrity and Anti-Corruption	Nil			
	(Malaysian and International Students))				
Semester	2 Feb/Mar 2026				
COS10025	Technology in an indigenous Context Project	Nil			
ENG10002	Engineering Materials	Nil			
ENG10003	Engineering Mechanics	Nil			
MTH10013	Linear Algebra and Applications	Nil			
MPU3192	Philosophy and Current Issues	Nil			
	(Malaysian and International Students)				
Winter Term June 2026					
MPU3212	Bahasa Kebangsaan A (Malaysian students who do not have SPM BM credit)	Nil			

Year Two

Semester	3 Aug/Sept 2026			
Unit Code	Unit Name	Pre-requisites		
ENG20009	Engineering Technology Inquiry Project	Nil		
COS20007	Object Oriented Programming	COS10009/SWE20004		
MTH20017	Mathematical Methods and Statistics for Engineering	MTH10012 & MTH10013		
COS10026	Web Technology Project	Nil		
MPU3182	Penghayatan Etika dan Peradaban (Malaysian Students Only)	Nil		
MPU3142	Malay Language Communication 2 (International Students Only)	Nil		
Semester 4 Feb/Mar 2027				
COS20019	Cloud Computing Architecture	50 cp		
ENG20010	Engineering Technology Design Project	Nil		
TNE20003	Internet and Cybersecurity for Engineering Applications	Nil		
TNE10006	Networks & Switching	Nil		
MPU3412	Service Learning	Nil		

Year Three

Semester	5 Aug/Sept 2027	
Unit Code	Unit Name	Pre-requisites
COS30008	Data Structures and Patterns*	COS20007
SWE30009	Software Testing and Reliability*	COS20007
COS30017	Software Development for Mobile Devices*	COS20007
ENG30002	Engineering Technology Sustainability Project*	Nil
EAT20008	Professional Experience in Engineering#	Introductory Seminar
Semester	6 Feb/Mar 2028	
COS30043	Interface Design and Development*	COS20007 & ENG20009
SWE30004	Software Deployment and Evolution*	COS20031 OR ENG20010
ENG40011	Engineering Technology Innovation Project*	Nil
SWE30003	Software Architecture and Design*	COS20007 & 150 cps

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, or a Minor.

1 Industry Placement Unit

0 credit point

A compulsory, not-for-credit unit

General Studies / Mata Pelajaran Umum

0 credit points

Compulsory units to complete as a pre-requisite to graduate (see statement below) Advisable to enrol in Year One

Email <u>Itu@swinburne.edu.my</u> 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%.

Year Four

Semester	7 Aug/Sept 2028				
Unit Code	Unit Name	Pre-requisites			
EAT40005	Engineering Technology Project A*	250 cps			
TNE30024	Deploying Secure Engineering Applications Online	TNE20003			
COS40003	Concurrent Programming*	COS20007			
COS30015	IT Security	COS10009 & COS10026 & TNE10006			
Semester					
EAT40006	Engineering Technology Project B*	EAT40005			
COS40007	Artificial Intelligence for Engineering	COS10009 & 100CP			
COS30019	Introduction to Artificial Intelligence*	COS20007			
INF10024	Business Digitalisation	Nil			

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

Notes

- # EAT20008 Professional Experience in Engineering is compulsory for all engineering students and must be taken before the last semester of study as part of EAC's requirement. Introductory Seminar will be conducted in week 4 of normal semester.
- * Honours merit units