

Bachelor of Engineering (Honours) (Robotics and Mechatronics) / Bachelor of Computer Science (All Majors) BB-ERMSCS2

Intake: August 2023

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

Semester 1 Aug/Sept 2023			
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	
MPU3193	Philosophy and Current Issues	Nil	
	(Malaysian and International Students)		
Semester 2	Feb/Mar 2024		
COS10025	Technology in an indigenous Context Project	Nil	
ENG10002	Engineering Materials	Nil	
ENG10003	Engineering Mechanics	Nil	
MTH10013	Linear Algebra and Applications	Nil	
MPU3183	Penghayatan Etika dan Peradaban	Nil	
	(Malaysian Students Only)		
MPU3143	Malay Language Communication 2	Nil	
	(International Students Only)		
Winter Terr	n June 2024		
MPU3212	Bahasa Kebangsaan A	Nil	
	(Malaysian students who do not have SPM Bahasa		
	Melayu credit)		

Year Two

Semester 3 Aug/Sept 2024			
Unit Code	Unit Name	Pre-requisites	
COS10004	Computer Systems	COS10009	
COS20007	Object Oriented Programming	COS10009/SWE20004	
MTH20017	Mathematical Methods and Statistics for Engineering	MTH10012 & MTH10013	
ENG20010	Engineering Technology Design Project	Nil	
Semester 4 Feb/Mar 2025			
TNE10006	Networks and Switching	Nil	
COS10026	Computing Technology Inquiry Project	Nil	
MEE20004	Structural Mechanics	ENG10003	
EEE20006@	Circuits and Electronics 1	MTH10013 & PHY10004/COS10025	

Year Three

Semester 5	Aug/Sept 2025	
Unit Code	Unit Name	Pre-requisites
MEE20006	Engineering Dynamics	MTH10013 & MTH10012 & PHY10001
ENG40011@	Engineering Technology Innovation Project	Nil
	Computer Science Major Unit	
	Computer Science Major Unit	
EAT20008	Professional Experience in Engineering [#]	Introductory Seminar
Semester 6	Feb/Mar 2026	
MEE20007@	Design and Product Visualisation Project	ENG10001
RME30002@	Control and Automation	PHY10004/EEE20006 &
		MTH20014/MTH20017
TNE20003	Internet and Cybersecurity for Engineering Applications	Nil
ENG20009	Engineering Technology Inquiry Project	Nil
EAT20008 Semester 6 MEE20007® RME30002® TNE20003	Computer Science Major Unit Computer Science Major Unit Professional Experience in Engineering [#] Feb/Mar 2026 Design and Product Visualisation Project Control and Automation Internet and Cybersecurity for Engineering Applications	Introductory Seminar ENG10001 PHY10004/EEE20006 & MTH20014/MTH20017 Nil

Year Four

Semester 7	Aug/Sept 2026	
Unit Code	Unit Name	Pre-requisites
RME30003@	Robotic Control	RME30002
TNE30024	Deploying Secure Engineering Applications Online	TNE20003
RME40002@	Mechatronics Systems Design	EEE20003/ENG20010
EEE40017@	Machine Vision	EEE20006 &
		MTH20014/MTH20010/MTH20017
Semester 8	Feb/Mar 2027	
MEE30005@	Machine Design Project	MEE20004
ENG30002@	Engineering Technology Sustainability Project	Nil
RME40003@	Robot Systems Design	250 CPs
	Computer Science Major Unit	

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 41 units (500 credit points) comprising of:

13 Core Units

162.5 credit points

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

18 Robotics and Mechatronics Major Units

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

9 Computer Science Major Units 112.5 credit points

A structured set of 8 units (100 credit points) in a field of study specific to your Course.

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 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 Five

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Semester 9	Aug/Sept 2027		
Unit Code	Unit Name	Pre-requisites	
EAT40005@	Engineering Technology Project A (ENG/CS)	250 CPs	
	Computer Science Major Unit		
	Computer Science Major Unit		
	Computer Science Major Unit		
Semester 10) Feb/Mar 2027		
EAT40006@	Engineering Technology Project B (ENG/CS)	EAT40005	
	Computer Science Major Unit		
	Computer Science Major Unit		
	Computer Science Major Unit		

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 | BEng(Hons)(R&M)

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

COURSE PLANNER



SWINBURNE UNIVERSITY OF TECHNOLOGY

Bachelor of Computer Science Major units

Software Development Najor Pre-requistes Offered in COS2001 Cloud Computing Architecture 50 CPs Semester 18.2 COS20031 Computing Technology Design Project Nil Semester 18.2 COS200302 Computing Technology Innovation Project Nil Semester 2 only COS300302 Advanced Web Development COS20007 & 150 CPs Semester 2 only COS300303 Concurrent Programming COS30007/SWE20004 Semester 2 only VEM20045 Software Testing and Reliability COS20007/SWE20004 Semester 2 only Artificial Intelligence Major VCOS20007/SWE20004 Semester 2 only Artificial Intelligence Major SO CPs Semester 1 only COS20019 Cloud Computing Architecture SO CPs Semester 1 & 2 COS20030 Computing Technology Innovation Project Nil Semester 1 only COS20031 Computing Technology Innovation Project Nil Semester 1 only COS20032 Codu Computing Technology Innovation Project Nil Semester 1 only COS20032 Computing Technology Innovation Project Nil					
COS20019 Cloud Computing Architecture 50 CPs Semester 1 & 2 COS20031 Computing Technology Design Project COS20007 & COS10025/COS10026 Semester 1 & 2 COS20032 Advanced Web Development COS20007 & COS10025/COS10026 Web Semester 2 only Semester 1 & 2 COS20007 Semester 1 & 2 COS20007 & COS10025/COS10026 Web Semester 2 only Semester 1 & 2 COS20007 Cos20007 Semester 2 only COS20007/WE20004 Semester 2 only COS20007 Cos20017 COS20007 (COS10025/COS10026 Web Semester 2 only Semester 2 only COS20019 Colud Computing Architecture SO CPs Semester 1 & 2 COS20019 Colud Computing Architecture SO CPs Semester 1 & 2 COS20019 Colud Computing Architecture and Design COS20007/COS10005/COS10026 Semester 1 & 2 COS20019 Colud Computing Architecture and Design COS20007/COS10008 & COS11005/COS10011 Semester 1 & 2 COS20017 Computing Architecture and Design COS20007/COS10008 Semester 1 & 2 COS20017 Structure and Design COS20007/COS10011 Semester 1 & 2 COS20017	Software De	velopment Major			
COS2003 Computing Technology Design Project COS10009 & COS10005/COS10026 Semester 1 & 2 COS20040 Computing Technology Inovation Project Nil Semester 1 & 2 Semester 2 only Semester 1 & 2 Semester 2 only Semester 1 & 2 Semester 2 only Semester 1 & 2 Semester 2 only Semester 1 & 2 Semester 2 only Semester 1 & 2 Semester 2 only Semester 1 & 2 Semester 1 & 2 </th <th>Unit Code</th> <th></th> <th>Pre-requisites</th> <th>Offered in</th>	Unit Code		Pre-requisites	Offered in	
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COS3002 Advanced Web Development COS10008 & COS10028/COS10011 Semester 2 only COS3004 Interface Design and Development COS10007/SW20004 Semester 2 only COS30043 Interface Design and Development COS30008/COS20007/SW20004 Semester 2 only COS30008/Software Architecture and Design Project COS10011/COS10026/COS10007/SW20004 Semester 2 only COS20007/SW20004 Semester 2 only COS20007/SW20004 Semester 2 only COS20007/SW20004 Semester 2 only COS20007/SW20004 Semester 1 & 2 COS3008/COS20007/SW20004 Semester 2 only COS20007/SW20004 Semester 2 only COS20007/SW20004 Semester 2 only COS20007/SW20004 Semester 1 & 2 COS30008 COS10005/COS10026 Semester 1 & 2 COS20007/SW20004 Semester 1 & 2 COS20007/SW20004 Semester 1 only COS30001 Introduction to Artificial Intelligent Setters S COS20007/SW20004 Semester 1 only COS30001 Introduction to Artificial Intelligent Semester 1 only COS30007/SW20004 Semester 1 only COS30007 Artificial Intelligent Semester 1 & 2 COS20007/SW20004 Semester 1 only COS30007 Artificial Intelligent Semester 1 & 2 COS20007/SW20004 Semester 1 only COS30007 Artificial Intelligent Semester 1 only COS30008 COS10026/COS10015 Semester 1 only COS30007 Artificial Intelligent Semester 1 only COS20007/SW20004 Semester 1 only COS30007 Artificial Intelligent Semester 1 only COS20007/SW20004 Semester 1 only COS30007 Artificial Intelligent Semester 1 only COS20007/SW20004 Semester 1 only COS20007 Artificial Intelligent Semester 1 only COS30008 COS10005/COS10026 Semester 1 & 2 COS20007 Artificial Intelligent Semester 1 only COS30007 Semester 2 only COS30007 Semester 2 only COS30007 Semester 2 only COS30007 Semester 2 only COS30007 Semester 1					
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