

Bachelor of Engineering (Honours) (Mechanical) / Bachelor of Business (Finance)

BB-EMEBUS3  
Semester 1 | 2026

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   Feb/Mar 2025		
Unit Code	Unit Name	Pre-requisites
ENG10001	Humanitarian Engineering Design Project	Nil
COS10009	Introduction to Programming	Nil
MTH10013	Linear Algebra and Applications	Nil
PHY10001	Energy and Motion	Nil
MPU3272	Integrity and Anti-Corruption <i>(Malaysian and International Students)</i>	Nil
Winter Term   July 2026		
MPU3212	Bahasa Kebangsaan A <i>(Malaysian students who do not have SPM Bahasa Melayu credit)</i>	Nil
Semester 2   Aug/Sept 2026		
ENG10006	Engineering Technology with Indigenous Context	Nil
ENG10002	Engineering Materials	Nil
ENG10003	Engineering Mechanics	Nil
MTH10012	Calculus and Applications	Nil
MPU3192	Philosophy and Current Issues <i>(Malaysian and International Students)</i>	Nil

Year Two

Semester 3   Feb/Mar 2027		
Unit Code	Unit Name	Pre-requisites
MEE20001	Thermodynamics	PHY10001
MEE20004	Structural Mechanics	ENG10002/ENG10003
MTH20010	Statistics and Computation for Engineering	MTH10013 & MTH10012
ACC10007	Financial Information for Decision Making	Nil
MPU3182	Penghayatan Etika dan Peradaban <i>(Malaysian Students Only)</i>	Nil
[OR]	[OR]	
MPU3142	Malay Language Communication 2 <i>(International Students Only)</i>	Nil
Semester 4   Aug/Sept 2027		
MEE20003	Fluid Mechanics 1: Forces and Energy	MTH10013 & MTH10012
MEE20006	Engineering Dynamics	MTH10013 & MTH10012 & PHY10001
ECO10005	Economics for Business Decision Making	Nil
INF10024	Business Digitalisation	Nil
MPU3412	Service Learning <i>(Malaysian and International Students)</i>	Nil

Year Three

Semester 5   Feb/Mar 2028		
Unit Code	Unit Name	Pre-requisites
MEE20007	Design and Product Visualisation Project	ENG10001
MEE30007	Vibration, Data Analysis and Data Decomposition	MTH10012 & MTH10013 & 150 credit points
MEE30005 *	Machine Design Project	MEE20004
MKT10009	Marketing and the Consumer Experience	Nil
EAT20008 #	Professional Experience in Engineering	Introductory Seminar
Semester 6   Aug/Sept 2028		
MEE20005	Materials Processing and Machining	ENG10002
MEE30004 *	Solid Mechanics	MEE20004
MME30002 *	Engineering Management Project	100 credit points
FIN10002	Financial Statistics	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

Each unit is equivalent to 12.5 credit points.  
To qualify for the award of this course, students must complete 41 units (500 credit points) in addition of the General Studies/Mata Pelajaran Umum, comprising of:

10 Core Units for Bachelor of Engineering (Honours)  
125 credit points

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

4 Core Units for Bachelor of Business  
50 credit points

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

17 Mechanical Major Units  
212.5 credit points

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

8 Finance Major Units  
100 credit points

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

1 Recommended Elective Unit  
12.5 credit points

MTH20010 Statistics and Computation for Engineering

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 [ltu@swinburne.edu.my](mailto:ltu@swinburne.edu.my) 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

## Year Four

Semester 7   Feb/Mar 2029		
Unit Code	Unit Name	Pre-requisites
MEE30001 *	Manufacturing Engineering	MEE20005
MEE30002 *	Control Engineering	Co-requisite: MEE20008/ MEE30007 Or Pre-requisites: MTH20011 MEE20006
MEE40003 *	Machine Dynamics	MEE20006
FIN20014	Financial Management	ACC10007 & 75 credit points
Semester 8   Aug/Sept 2029		
MEE40001 *	Heat Transfer	MEE20001 & MTH20010
MEE40004 *	Fluid Mechanics 2: Machine, Supersonics and Modelling	MEE20003
MEE40010 *	Integrated Engineering Design Project	MEE30005
MEE40011 *	Renewable Energy and Hydrogen Technologies	Nil

## Year Five

Semester 9   Feb/Mar 2030		
Unit Code	Unit Name	Pre-requisites
ENG40012 *	Final Year Capstone Project 1 (Eng/Bus)	350 credit points & MKT10009, ECO10005, ACC10007 and INF10024
FIN30016	Management of Investment Portfolios	FIN10002 & FIN20014
BUS10014	Business for Sustainability, Social Change and Impact	Nil
FIN30014	Financial Risk Management	FIN20014
Semester 10   Aug/Sept 2030		
ENG40013 *	Final Year Capstone Project 2 (Eng/Bus)	ENG40012
FIN20016	Ethics and International Finance	ECO10004
FIN30021	Fixed Income and Debt Markets	FIN10002 & FIN20014
FIN30020	Alternative Investments	FIN10002 & FIN20014

### 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.