

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

BB-EMEBUS3

Semester 2 | 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

Semester 1   Aug/Sept 2025		
Unit Code	Unit Name	Pre-requisites
ENG10001	Humanitarian Engineering Design Project	Nil
COS10009	Introduction to Programming	Nil
MTH10012	Calculus and Applications	Nil
PHY10001	Energy and Motion	Nil
MPU3272	Integrity and Anti-Corruption <i>(Malaysian and International Students)</i>	Nil
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 <i>(Malaysian and International Students)</i>	Nil
Winter Term   June/July 2026		
MPU3212	Bahasa Kebangsaan A <i>(Malaysian students who do not have SPM Bahasa Melayu credit)</i>	Nil

Year Two

Semester 3   Aug/Sept 2026		
Unit Code	Unit Name	Pre-requisites
MEE20003	Fluid Mechanics 1: Forces and Energy	MTH10013 & MTH10012
MEE20006	Engineering Dynamics	MTH10013 & MTH10012 & PHY10001
ECO10005	Economics for Business Decision Making	Nil
MKT10009	Marketing and the Consumer Experience	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   Feb/Mar 2027		
MEE20001	Thermodynamics	PHY10001
MTH20010	Statistics and Computation for Engineering	MTH10013 & MTH10012
MEE20004	Structural Mechanics	ENG10002 OR ENG10003
ACC10007	Financial Information for Decision Making	Nil
MPU3412	Service Learning	Nil

Year Three

Semester 5   Aug/Sept 2027		
Unit Code	Unit Name	Pre-requisites
MEE20005	Materials Processing and Machining	ENG10002
MEE30004 *	Solid Mechanics	MEE20004
MME30002 *	Engineering Management Project	100 credit points
INF10024	Business Digitalisation	Nil
EAT20008 #	Professional Experience in Engineering	Introductory Seminar
Semester 6   Feb/Mar 2028		
MEE20007	Design and Product Visualisation Project	ENG10001
MEE30001 *	Manufacturing Engineering	MEE20005
MEE30005 *	Machine Design Project	MEE20004
BUS10014	Business for Sustainability, Social Change and Impact	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 Management 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 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 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 take and pass the units as a prerequisite for the award of their degree

## Year Four

Semester 7   Aug/Sept 2028		
Unit Code	Unit Name	Pre-requisites
MEE40001 *	Heat Transfer	MEE20001 OR MTH20010
MEE40004 *	Fluid Mechanics 2: Machine, Supersonics and Modelling	MEE20003
MEE40010 *	Integrated Engineering Design Project	MEE30005
MEE40011 *	Renewable Energy and Hydrogen Technologies	Nil
Semester 8   Feb/Mar 2029		
MEE20008	Vibration and Signal Analysis	MTH10012 & MTH10013
MEE30002 *	Control Engineering	Co-requisite: MEE20008 Or Pre-requisites: MTH20011
MEE40003 *	Machine Dynamics	MEE20006
MGT10010	Ethics of Innovation	50 Credit Points

## Year Five

Semester 9   Aug/Sept 2029		
Unit Code	Unit Name	Pre-requisites
ENG40012 *	Final Year Capstone Project 1 (Eng/Bus)	350 credit points & MKT10009, ECO10005, ACC10007 and INF10024
MGT30008	Leadership Practice and Skills	MME30002 & 187.5 credit points
HRM30012	Digital Management and the Future of Work	ENG10001 & COS10025 & 150 credit points
PRM30001	Project Management Essentials	100 credit points
Semester 10   Feb/Mar 2030		
ENG40013 *	Final Year Capstone Project 2 (Eng/Bus)	ENG40003
MGT20008	Business, Society and Sustainability	MME30002
MGT20007	Organisational Behaviour	MME30002 & 87.5 credit points OR ENG10001 & COS10025
MGT30005	Strategic Planning	187.5 credit points

### 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.