COURSE PLANNER

SWINBURNE UNIVERSITY OF TECHNOLOGY

Bachelor of Engineering (Honours) (Civil)

BH-ECV

Semester 1 | 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

Unit Code	Unit Name	Pre-requisites
**Semester 1	Feb/Mar 2023**		
ENG10001	Humanitarian Engineering Design Project	Nil
COS10009	Introduction to Programming	Nil
MTH10012	Calculus and Applications	Nil
PHY10001	Energy and Motion	Nil
MPU3193	Philosophy and Current Issues *(Malaysian and International Students)*	Nil
**Winter Term	June 2023**		
MPU3212	Bahasa Kebangsaan A (Malaysian students who do not have SPM Bahasa Melayu credit)	Nil
**Semester 2	Aug/Sept 2023**		
ENG10002	Engineering Materials	Nil
ENG10003	Engineering Mechanics	Nil
MTH10013	Linear Algebra and Applications	Nil
COS10025	Technology in an Indigenous Context Project	Nil
MPU3183	Penghayatan Etika dan Peradaban *(Malaysian Students Only)*	Nil
MPU3143	Malay Language Communication 2 *(International Students Only)*	Nil

Year Two

Unit Code	Unit Name	Pre-requisites
**Semester 3	Feb/Mar 2024**		
CVE20001	Topographical Engineering	MTH10012
MME30001†	Engineering Management 1	100 CPS
MEE20004	Structural Mechanics	ENG10003
MTH20010	Statistics and Computation for Engineering	MTH10012 & MTH10013
**Semester 4	Aug/Sept 2024**		
MEE20003	Fluid Mechanics 1	MTH10012 & MTH10013
CVE20003	Design of Concrete Structures	MEE20004
CVE20005	Road Engineering	CVE20001
CVE20015	Digital Engineering Project	Concurrent CVE10002, ENG10003

Year Three

Unit Code	Unit Name	Pre-requisites
**Semester 5	Feb/Mar 2025**		
CVE30001†	Urban Water Resources	MEE20003
CVE30002†	Design of Steel Structures	MEE20004
CVE30003†	Transport Engineering	CVE20005
Elective code**	Approved Elective 1	Unit dependent
EAT20008#	Professional Experience in Engineering	Introductory Seminar
**Semester 6	Aug/Sept 2025**		
CVE20004	Geomechanics	ENG10003
CVE30005†	Cost Engineering Project	175 CPS
CVE40010*†	Water Engineering Design Project	CVE30001
CVE40011†	Engineering Data Analytics and Applications	CVE20015 OR CVE20002

Year Four

Unit Code	Unit Name	Pre-requisites
**Semester 7	Feb/Mar 2026**		
ENG40001*†	Final Year Research Project 1	287.5 CPS
CVE40001*†	Geotechnical Engineering	CVE20004
CVE40002*†	Structural Design of Low Rise Buildings	CVE20003 & CVE30002
Elective code**	Approved Elective 2	Unit dependent
**Semester 8	Aug/Sept 2026**		
ENG40002*†	Final Year Research Project 2	ENG40001
CVE40006*†	Infrastructure Design Project	CVE20003 & CVE30002
Elective code**	Approved Elective 3	Unit dependent
Elective code**	Approved Elective 4	Unit dependent

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. The introductory Seminar will be conducted in week 4 of the normal semester.

* 6 Outcome units – completion demonstrates the attainment of course learning outcomes

† 12 Honours merit units – the results are used in the honours merit calculation

** 4 Elective units (including IR 4.0 units)

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 32 units (400 credit points), EAT20008 and the General Studies/Mata Pelajaran Umum, comprising of:

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

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

4 Recommended Elective Units
50 credit points
A combination of elective units**, including Fourth Industrial Revolution (IR 4.0) units.

1 Industry Placement Unit
0 credit point
EAT20008# is a COMPULSORY, non-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 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