

COURSE PLANNER

Bachelor of Engineering (Honours) (Civil)

BH-ECV

Semester 2 | 2022

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 2022 | | |
|----------------------------|---|----------------|
| Unit Code | Unit Name | Pre-requisites |
| ENG10001 | Engineering, Design and Innovation | Nil |
| ENG10002 | Engineering Materials | Nil |
| MTH10012 | Calculus and Applications | Nil |
| PHY10001 | Energy and Motion | Nil |
| Semester 2 Feb/Mar 2023 | | |
| ENG10003 | Mechanics of Structures | Nil |
| ENG10004 | Digital and Data Systems | Nil |
| MTH10013 | Linear Algebra and Applications | Nil |
| PHY10004 | Electronics and Electromagnetism | Nil |
| MPU3193 | Philosophy and Current Issues <i>(Malaysian and International Students)</i> | Nil |
| Winter Term July 2023 | | |
| MPU3212 | Bahasa Kebangsaan A <i>(Malaysian students who do not have SPM Bahasa Melayu credit)</i> | Nil |

Year Two

| Semester 3 Aug/Sept 2023 | | |
|----------------------------|--|---------------------|
| Unit Code | Unit Name | Pre-requisites |
| CVE20002 | Computer-Aided Engineering | ENG10001 |
| MEE20003 | Fluid Mechanics 1 | MTH10012 & MTH10013 |
| MME30001 [†] | Engineering Management 1 | 100 CPS |
| Elective code** | Approved Elective | Unit dependent |
| MPU3183 | Penghayatan Etika dan Peradaban <i>(Malaysian Students Only)</i> | Nil |
| MPU3143 | Malay Language Communication 2 <i>(International Students Only)</i> | Nil |
| Semester 4 Feb/Mar 2024 | | |
| CVE20001 | Topographical Engineering | MTH10012 |
| CVE20004 | Geomechanics | ENG10003 |
| CVE30001 [†] | Urban Water Resources | MEE20003 |
| MEE20004 | Structural Mechanics | ENG10003 |

Year Three

| Semester 5 Aug/Sept 2024 | | |
|----------------------------|--|----------------------|
| Unit Code | Unit Name | Pre-requisites |
| CVE20003 | Design of Concrete Structures | MEE20004 |
| CVE20005 | Road Engineering | CVE20001 |
| CVE40001 ^{†*} | Geotechnical Engineering | CVE20004 |
| MME40001 [†] | Engineering Management 2 | 100 CPS |
| EAT20008 [#] | Professional Experience in Engineering | Introductory Seminar |
| Semester 6 Feb/Mar 2025 | | |
| CVE30002 [†] | Design of Steel Structures | MEE20004 |
| CVE30003 [†] | Transport Engineering | CVE20005 |
| MTH20010 | Mathematics 3A | MTH10012 & MTH10013 |
| Elective code** | Approved Elective | Unit dependent |

Year Four

| Semester 7 Aug/Sept 2025 | | |
|----------------------------|---|---------------------|
| Unit Code | Unit Name | Pre-requisites |
| ENG40001 ^{†*} | Final Year Research Project 1 | 287.5 CPS |
| CVE30004 [†] | Cost Engineering | 175 CPS |
| CVE40004 ^{†*} | Water Engineering | CVE30001 |
| CVE40006 ^{†*} | Infrastructure Design Project | CVE20003 & CVE30002 |
| Semester 8 Feb/Mar 2026 | | |
| ENG40002 ^{†*} | Final Year Research Project 2 | ENG40001 |
| CVE40002 ^{†*} | Structural Design of Low Rise Buildings | CVE20003 & CVE30002 |
| Elective code** | Approved Elective | Unit dependent |
| Elective code** | Approved Elective | 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:

12 Core Units

150 credit points

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

16 Civil Major Units

200 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