COURSE PLANNER

Bachelor of Engineering (Honours)(Chemical) SK401

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

Semester 1 Unit Code	Feb/Mar 2023 Unit Name	Dro roquisitos		
ENG10001 COS10009 MTH10012 PHY10001	Humanitarian Engineering Design Project Introduction to Programming Calculus and Applications Energy and Motion	Pre-requisites Nil Nil Nil 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				
COS10025	Technology in an Indigenous Context Project	Nil		
MTH10013	Linear Algebra and Applications	Nil		
ENG10002	Engineering Materials	Nil		
ENG10003	Mechanics of Structures	Nil		
MPU3183	Penghayatan Etika dan Peradaban (Malaysian Students Only)	Nil		
MPU3143	Malay Language Communication 2 (International Students Only)	Nil		

Year Two

Semester 3 Feb/Mar 2024				
Unit Code	Unit Name	Pre-requisites		
CEE20001	Introduction to Chemical Engineering Design	ENG10001		
CEE20005	Engineering Chemistry	Nil		
MTH20010	Statistics and Computation for Engineering	MTH10013 & MTH10012		
COS10022**	Introduction to Data Science	Nil		
Semester 4 Aug/Sept 2024				
CEE20002	Chemical Engineering Thermodynamics	Nil		
CEE20003	Fluid Mechanics C	MTH10012 & MTH10013		
CEE20004	Process Safety and Sustainability	ENG10001		
SWE20004**	Technical Software Development	ENG10004		

Year Three

Year Four

Semester 7 Feb/Mar 2026				
Unit Code	Unit Name	Pre-requisites		
CEE30008	Environmental Engineering	CEE20001		
CEE40002*	Process Plant Design 1	CEE30006 & 275 Credit points		
ENG40005*	Final Year Capstone Project 1	287.5 credit points		
COS20083**	Advance Data Analytics	COS10081 & SWE20004		
Semester 8 Aug/Sept 2026				
CEE40004*	Process Plant Design 2	CEE40002		
MME40011*	Renewable Energy and Hydrogen Technologies	100 Credit points		
ENG40006*	Final Year Capstone Project 2	ENG40005		
BIO10003**	Concepts of Biotechnology	250 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 (tentative)

** Elective 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 33 units (400 credit points) comprising of:

12 Core Units

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

16 Chemical Major Units

200 credit points A set of compulsory units you MUST

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 or a Minor package.

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 prerequisite to graduate (see statement below)

* Advisable to enrol in Year One

* Email <u>ltu@swinburne.edu.my</u> 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