COURSE PLANNER

Bachelor of Engineering (Honours)(Chemical)

SK401

Semester 2 | 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 Aug/Sept 2023				
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		
MPU3193	Philosophy and Current Issues	Nil		
	(Malaysian and International Students)	INII		
Semester 2	Feb/Mar 2024			
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	Nil		
WII 05105	(Malaysian Students Only)	1411		
MPU3143	Malay Language Communication 2	Nil		
	(International Students Only)			
Winter Term June 2024				
MPU3212	Bahasa Kebangsaan A			
	(Malaysian students who do not have SPM Bahasa	Nil		
	Melayu credit)			

Year Two

Semester 3 Aug/Sept 2024				
Unit Code	Unit Name	Pre-requisites		
COS10022 ^{&}	Data Science Principles	Nil		
CEE20002	Chemical Engineering Thermodynamics	Nil		
CEE20003	Fluid Mechanics C	MTH10012 & MTH10013		
CEE20004	Process Safety and Sustainability	ENG10001		
Semester 4 Feb/Mar 2025				
MTH20010	Statistics and Computation for Engineering	MTH10012 & MTH10013		
CEE20001	Introduction to Chemical Engineering Design	ENG10001		
CEE20005	Engineering Chemistry	Nil		
CFF30002@	Reaction Engineering	FNG10002		

Year Three

Semester 5 Aug/Sept 2025				
Unit Code	Unit Name	Pre-requisites		
CEE30001@	Transport Phenomena	CEE20002 & CEE20003		
CEE30005@	Multiphase Processes	CEE20003		
CEE30003@	Process Mass Transfer	CEE20002		
MME30002@	Engineering Management Project	100 credit points		
EAT20008#	Professional Experience in Engineering	Introductory Seminar		
Semester 6 F	eb/Mar 2026			
CEE30004 [®]	Process Heat Transfer	CEE20002		
CEE30006@	Process Modelling and Optimisation	CEE20001 & MTH20010		
CEE30007@	Process Control & Measurements	MTH20010		
CEE40005	Environmental Engineering	CEE20001		
		For other program 250 credit points		

Year Four

Semester 7 Aug/Sept 2026				
Unit Code	Unit Name	Pre-requisites		
ENG40005@	Final Year Capstone Project 1	287.5 credit points		
CEE40002@	Process Plant Design 1	CEE30006 & 275 Credit points		
MEE40011	Renewable Energy and Hydrogen	Nil		
	Technologies			
BIO10003 ^{&}	Concepts of Biotechnology	250 credit points		
Semester 8 Feb/Mar 2027				
ENG40006@	Final Year Capstone Project 2	ENG40005		
CEE40004@	Process Plant Design 2	CEE40002		
PEH20002 ^{&}	Food Science	CHE10001/ CEE20005		
COS20083 ^{&}	Advance Data Analytics	COS10022 & COS10009/SWE20004		

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 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

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