

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 (Malaysian and International Students) | Nil |
| Semester 2 Feb/Mar 2024 | | |
| COS10025 | Technology in an Indigenous Context Project | Nil |
| MTH10013 | Linear Algebra and Applications | Nil |
| ENG10002 | Engineering Materials | Nil |
| ENG10003 | Engineering Mechanics | Nil |
| MPU3183 | Penghayatan Etika dan Peradaban (Malaysian Students Only) | Nil |
| MPU3143 | Malay Language Communication 2 (International Students Only) | Nil |
| Winter Term June 2024 | | |
| MPU3212 | Bahasa Kebangsaan A (Malaysian students who do not have SPM Bahasa Melayu credit) | Nil |

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 |
| CEE30002 [@] | Reaction Engineering | ENG10002 |

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 Feb/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 Technologies | Nil |
| BIO10003 ^{&} | Concepts of Biotechnology | Nil |
| Semester 8 Feb/Mar 2027 | | |
| ENG40006 [@] | Final Year Capstone Project 2 | ENG40005 |
| CEE40004 [@] | Process Plant Design 2 | CEE40002 |
| PEH20002 ^{&} | Food Science | CHE10001/ CEE20005 |
| SOC10005 ^{&} | Environment and Society: Problems and Solutions | Nil |

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 (can be customised). Please consult the Head of Department



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 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 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