

**Engineering Re-enrolment Guide 2022**  
**Re-enrolment period: 11 October – 26 November 2021**  
Re-enrolment WES

**Feb 2021 Intake**

Students are required to **re-enrol for both Semester 1 2022 and Semester 2 2022** via [Re-enrolment WES](#)

**REMINDER: General Studies**

- General Studies consist of units which every student enrolled in a public or private higher education institutions (PHEIs) are required to undertake **effective October 2013 intake onwards.**
- All Malaysian and international students are required to enroll, undertake, attend and pass these units as a prerequisite to the award of a certificate, diploma or degree. For further info, please email: [mum.generalstudies@monash.edu](mailto:mum.generalstudies@monash.edu)

**Chemical Engineering**

**1) Semester 1 2022 units**

CHE2164	Thermodynamics I
ENG2005	Advanced engineering mathematics
CHE2873	Introduction to Chemical Processes
CHM1051	Chemistry 1 advanced (if taken in Y1, then to take Level 2 elective unit*)

**\*Elective units**

CHE2167	Process material selection
CHE2871	Biochemistry for engineers

**Industrial Revolution 4.0**

ECE2131	Electrical circuits
ECE2071	Computer organisation and programming

\*\*For those taking IR4 units, ECE2131 and ECE2071 must be taken together. Contact Course Director for more information.

**2) Semester 2 2022 units**

CHE2161	Mechanics of fluids
CHE2162	Material and energy balances
CHE2163	Heat and mass transfer
CHE2166	Introduction to process simulation

## Civil Engineering

### 1) Semester 1 2022 units

CIV2206	Structural mechanics
CIV2263	Water systems
CIV2282	Transport and traffic engineering

**Note: One of the following two units can be taken. Priority is with ENG2801 (if not taken)**

CIV2283	Civil engineering construction
ENG2801	Leadership and innovation

### 2) Semester 2 2022 units

CIV2242	Geomechanics I
CIV2235	Structural materials
ENG2005	Advanced engineering mathematics

**Note: One of the following two units can be taken. Priority is with ENG1021 (if not taken). If taken, a free elective from other schools or other engineering disciplines is acceptable.**

ENG1021	Spatial communication in engineering
	Free Elective

## Electrical and Computer Systems Engineering

### 1) Semester 1 2022 units

ECE2071	Computer organisation and programming
ECE2131	Electrical circuits
ENG2005	Advanced engineering mathematics

**Plus select one of the following elective**

ECW1102	Introductory macroeconomics
BTW1042	Malaysian business law

### 2) Semester 2 2022 units

ECE2111	Signals and systems
ECE2191	Probability models in engineering
ECE3121	Engineering electromagnetics
ECE2072	Digital Systems **

\*\* instead of ECE3121 if the unit was not taken in level 1

**Plus Elective**

TRC2001	Introduction to systems engineering
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## Mechanical Engineering

### 1) Semester 1 2022 units

MEC2401	Dynamics I
MEC2402	Design Methods
MEC2403	Mechanics of materials
ECE2131 or MEC3448	Electrical circuits or Engineering technologies

### 2) Semester 2 2022 units

ENG2005	Advanced engineering mathematics
MEC2405	Thermodynamics
MEC2404	Mechanics of fluids*

\*to select 2 electives if MEC2404 already done in Level 1

Select 1 elective below

MEC2407	Electromechanics
MEC3459	Materials Selection for Engineering Design

## Robotics and Mechatronics Engineering (Artificial Intelligence & Automation Streams)

### 1) Semester 1 2022 units

ECE2131	Electrical circuits
MEC2402	Design methods
ECE2071	Computer organisation and programming

**You can choose from the following electives\***

ECE3141	Information and Network
ECE3073	Computer Systems

*if you have taken ECE2071 in Year 1, then you choose two from the above units.*

### 2) Semester 2 2022 units

ENG2005	Advanced engineering mathematics
TRC2201	Mechanics
ECE2072	Digital systems

**You can choose from the following electives\***

TRC2001	Introduction to systems engineering
ECE2111	Signals & Systems
MEC2407	Electromechanics

\* please check with the school before the start of semester for any update to offerings of electives

## Software Engineering

### 1) Semester 1 2022 units

FIT2099	Object oriented design & implementation
FIT2085	Introduction to computer science for engineers
FIT2081	Mobile application development (Recommended Elective)
MAT1830	Discrete mathematics for computer science

### 2) Semester 2 2022 units

FIT2101	Software engineering process and management
FIT2107	Software quality and testing
FIT2004	Algorithms & data structures
Elective	Choose between FIT2093, FIT2086, FIT3175 or FIT3179