

Materials Engineering (2+2) Re-enrolment Guide 2027

(Prepared by Course Director, Dr Goh Kek Boon &
Course Director, Common Engineering, Dr Khong Wei Leong - Version 1.9.2026)

- Students are required to [re-enrol for both Semester 1 and Semester 2](#) via [WES](#)
- All students are required to complete the [Malaysia General Studies](#)
- Official Faculty of Engineering Course Maps, Elective and Minor website [link](#) (follow your commencing year intake)
- If you encounter issues with enrolment, please submit [SORS enrolment form](#)

Intake: Commencing July and Oct 2026

Units to be enrolled for Second Semester of Year 1 - Semester 1 2027

Semester 1 2027 units

Students who have completed ENG1090 combination in previous semester:

ENG1012	Engineering for People and Planet
ENG1014	Engineering Numerical Analysis
ENG1005	Engineering Mathematics
Choose ONE technical elective from below:	
- PHS1002 Physics for engineering - CHM1051 Chemistry 1 advanced (recommended for Chemical Engineering) - MEC2811 Manufacturing Processes - ENG1813 Next-Gen uncrewed vehicle - FIT1045 Introduction to programming - CHE2167 Process material selection - CHE2871 Biochemistry for engineers - BIO1011 Blueprints for life (Compulsory elective for Biomedical Engineering)	
Software Engineering students are recommended to complete FIT1045 as a breadth study unit.	

Students who have completed ENG1005 in previous semester:

ENG1012	Engineering for People and Planet
ENG1014	Engineering Numerical Analysis
Choose TWO technical electives from below:	
- PHS1002 Physics for engineering - CHM1051 Chemistry 1 advanced (recommended for Chemical Engineering) - MEC2811 Manufacturing Processes - ENG1813 Next-Gen uncrewed vehicle - FIT1045 Introduction to programming - CHE2167 Process material selection - CHE2871 Biochemistry for engineers - BIO1011 Blueprints for life (Compulsory elective for Biomedical Engineering)	
Software Engineering students are recommended to complete FIT1045 as a breadth study unit.	

Units to be enrolled for First Semester of Year 2 in Semester 2 2027

Semester 2 2027 units

Materials Engineering

MTE 2204	Materials in a complex world 1: People, projects and data
MTE 2201	Plastics and the planet: Health, impact and sustainability
ENG 2005	Advanced Mathematics

Select ONE elective

*Students are encouraged to take MMA Y2 units to gain exposure to the relationship between mechanics and material properties. Alternatively, they may choose an elective from other engineering disciplines or other schools.

*IMPORTANT NOTE - End of Semester 1 2027

- Kindly ensure that your specialisation ('Area of Study') in WES is the **same as** your offer letter and international student pass.
- When the Semester 1 2027 exam results are released, kindly check that you have met the *prerequisites* of these Year 2 units. If you do not meet the pre / co-requisites, then the unit enrolled will become **INVALID**.
- Students who could **NOT PASS ALL CORE Year 1 UNITS**, MUST seek enrolment advice from the Course Director, Common Engineering (Dr Khong Wei Leong, khong.weileong@monash.edu)

Intake: Commencing February 2026

Semester 1 2027 units

MTE 2101	Atomic-scale structure of materials
MTE 2102	Phase equilibria and phase transformations
MTE 2103	Mechanical properties of materials

Select ONE elective

*Students are encouraged to take MMA Y2 units to gain exposure to the relationship between mechanics and material properties. Alternatively, they may choose an elective from other engineering disciplines or other schools.

Semester 2 2027 units

MTE 2204	Materials in a complex world 1: People, projects and data
MTE 2201	Plastics and the planet: Health, impact and sustainability
ENG 2005	Advanced Engineering Mathematics

Select ONE elective

*Students are encouraged to take MMA Y2 units to gain exposure to the relationship between mechanics and material properties. Alternatively, they may choose an elective from other engineering disciplines or other schools.

IMPORTANT:

- You must submit application for **campus transfer** for their Year 3 and 4 (S1 2028 - S2 2029) to study at Clayton Campus, Australia
- You must submit the application in S2 2027 - refer to the timeline in this website: <https://www.monash.edu/admissions/study-options/internal-transfer>
- If you require advice on campus transfer, please contact Ms Angeline Tan (Angeline.Tan@monash.edu), Course and Campus Transfer Manager

Intake: Commencing July and Oct 2025

Semester 1 2027 units

MTE 2101	Atomic-scale structure of materials
MTE 2102	Phase equilibria and phase transformations
MTE 2103	Mechanical properties of materials

Select ONE elective

*Students are encouraged to take MMA Y2 units to gain exposure to the relationship between mechanics and material properties. Alternatively, they may choose an elective from other engineering disciplines or other schools.

Semester 2 2027 units

MTE 2204	Materials in a complex world 1: People, projects and data
MTE 2201	Plastics and the planet: Health, impact and sustainability
ENG 2005	Advanced Mathematics

Select ONE elective

*Students are encouraged to take MMA Y2 units to gain exposure to the relationship between mechanics and material properties. Alternatively, they may choose an elective from other engineering disciplines or other schools.

IMPORTANT:

- You must submit application for **campus transfer** for their Year 3 and 4 (S2 2027 - S1 2029) to study at Clayton Campus, Australia
- You must submit the application in S1 2027 - refer to the timeline in this website: <https://www.monash.edu/admissions/study-options/internal-transfer>
- If you require advice on campus transfer, please contact Ms Angeline Tan (Angeline.Tan@monash.edu), Course and Campus Transfer Manager