

Civil Engineering Re-enrolment Guide 2026

(Prepared by Course Director, Associate Professor Dr Daniel Kong &
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](#) (except for final semester students)
- All students MUST complete the [Malaysia General Studies](#) and [Industrial Training](#) before course completion
- 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

Civil Engineering

CIV2235	Structural materials
CIV2242	Geomechanics I
ENG2005	Advanced engineering mathematics
<i>ENG1021 or One (1) Level 1, 2 or 3 elective or engineering technical elective</i>	

Select ONE elective

ENG1021	Spatial Communication in Engineering
	Free Elective

*Students MUST take ENG1021 unless it was already completed in Year 1. If ENG1021 was completed in Year 1, an elective from other engineering disciplines or other schools may be chosen instead.

*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

Civil Engineering

Semester 1 2027 units

CIV2206	Structural mechanics
CIV2263	Water systems
CIV2282	Transport and traffic engineering
<i>One (1) Level 1, 2 or 3 elective or engineering technical elective</i>	

Select ONE elective

CIV2283	Civil engineering construction
	Free Elective

*Students are encouraged to take CIV2283 to gain exposure to civil construction and project management. Alternatively, they may choose an elective from other engineering disciplines or other schools.

Semester 2 2027 units

CIV2235	Structural materials
CIV2242	Geomechanics I
ENG2005	Advanced engineering mathematics
<i>ENG1021 or One (1) Level 1, 2 or 3 elective or engineering technical elective</i>	

Select ONE elective

ENG1021	Spatial communication in engineering
	Free Elective

*Students MUST take ENG1021 unless it was already completed in Year 1. If ENG1021 was completed in Year 1, an elective from other engineering disciplines or other schools may be chosen instead.

Intake: Commencing July and Oct 2025

Civil Engineering

Semester 1 2027 units

CIV2206	Structural mechanics
CIV2263	Water systems
CIV2282	Transport and traffic engineering
<i>One (1) Level 1, 2 or 3 elective or engineering technical elective</i>	

Select ONE elective below

CIV2283	Civil engineering construction
	Free Elective

*Students are encouraged to take CIV2283 to gain exposure to civil construction and project management. Alternatively, they may choose an elective from other engineering disciplines or other schools.

Semester 2 2027 units

CIV3221	Building structures and technology
CIV3247	Geomechanics II
CIV3283	Road engineering
<i>One (1) Level 3 or 4 civil engineering technical elective or an engineering minor</i>	

Select ONE elective below

CIV4268	Water resource management
CIV4284	Traffic systems
CIV4802	Smart urban mobility & digital twins
CIV4803	Electric mobility

Intake: Commencing February 2025

Civil Engineering

Semester 1 2027 units

CIV3285	Engineering hydrology
CIV3294	Structural design
ENG4801	Professional practice (Curriculum embedded)
<i>One (1) Level 3 or 4 civil engineering technical elective or an engineering minor</i>	

Select ONE elective

CIV4100	Autonomous vehicle systems
CIV4234	Advanced structural analysis
CIV4261	Integrated urban water management
CIV4283	Transport planning

Semester 2 2027 units

CIV3221	Building structures and technology
CIV3247	Geomechanics II
CIV3283	Road engineering
<i>One (1) Level 3 or 4 civil engineering technical elective or an engineering minor</i>	

Select ONE elective

CIV4235	Advanced structural design
CIV4268	Water resource management
CIV4284	Traffic systems
CIV4802	Smart urban mobility & digital twins
CIV4803	Electric mobility

Semester Summer Semester A - SSA-02

ENG0002	Industrial Training
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*Students who have completed 120 credit points in their engineering studies and have not yet enrolled in ENG0002 are required to enrol in ENG0002 Industrial Training for the SSA-02 semester.

Intake: Commencing July and Oct 2024

Civil Engineering

Semester 1 2027 units

CIV3285	Engineering hydrology
CIV3294	Structural design
ENG4801	Professional practice (Curriculum embedded)
<i>One (1) Level 3 or 4 civil engineering technical elective or an engineering minor</i>	

Select ONE elective

CIV4100	Autonomous vehicle systems
CIV4234	Advanced structural analysis
CIV4248	Ground hazards engineering
CIV4261	Integrated urban water management

Semester 2 2027 units

ENG4701	Final year project A
CIV4212	Civil and environmental engineering practice
CIV4288	Water treatment
<i>One (1) Level 4 civil engineering technical elective or an engineering minor</i>	

Select ONE elective

CIV4235	Advanced structural design
CIV4268	Water resource management
CIV4284	Traffic systems
CIV4802	Smart urban mobility & digital twins
CIV4803	Electric mobility

Semester Summer Semester A - SSA-02

ENG0002	Industrial Training
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*Students who have completed 120 credit points in their engineering studies and have not yet enrolled in ENG0002 are required to enrol in ENG0002 Industrial Training for the SSA-02 semester.

Intake: Commencing February 2024

Civil Engineering

Semester 1 2027 units

ENG4701	Final year project A
CIV4249	Foundation engineering
CIV4280	Bridge design and assessment
<i>One (1) Level 4 civil engineering technical elective or an engineering minor</i>	

Select ONE elective

CIV4100	Autonomous vehicle systems
CIV4234	Advanced structural analysis
CIV4248	Ground hazards engineering
CIV4261	Integrated urban water management
CIV4283	Transport planning

Semester 2 2027 units

ENG4702	Final year project B
CIV4212	Civil and environmental engineering practice
CIV4288	Water treatment
<i>One (1) Level 4 civil engineering technical elective or an engineering minor</i>	

Select ONE elective

CIV4235	Advanced structural design
CIV4268	Water resources management
CIV4284	Traffic systems
CIV4802	Smart urban mobility & digital twins
CIV4803	Electric mobility

Semester Summer Semester A - SSA-02

ENG0002	Industrial Training
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*Students who have completed 120 credit points in their engineering studies and have not yet enrolled in ENG0002 are required to enrol in ENG0002 Industrial Training for the SSA-02 semester.

Intake: Commencing July and Oct 2023

Civil Engineering

Semester 1 2027 units

ENG4702	Final year project B
CIV4249	Foundation engineering
CIV4280	Bridge design and assessment
<i>One (1) Level 4 civil engineering technical elective or an engineering minor</i>	

Select ONE elective below

CIV4100	Autonomous vehicle systems
CIV4234	Advanced structural analysis
CIV4248	Ground hazards engineering
CIV4261	Integrated urban water management
CIV4283	Transport planning