

Software Engineering Re-enrolment Guide 2027

(Prepared by Course Director, Associate Professor Ir Dr Tan Chee Keong &
Course Director, Common Engineering, Dr Khong Wei Leong - Version 14.9.2026)

- 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/October 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.	

Intake: Commencing July/October 2026 (New Course Map)

Software Engineering

Non-IBL Pathway

Semester 2 2027 units

MAT1830	Discrete mathematics for computer science
FIT2099	Object-oriented design and implementation
FIT2101	Software engineering process and management
FIT2107 (FIT3197)	Software quality and testing

IBL Pathway

Semester 2 2027 units

MAT1830	Discrete mathematics for computer science
FIT2099	Object-oriented design and implementation
FIT2101	Software engineering process and management
FIT2107 (FIT3197)	Software quality and testing

***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 (New Course Map)

Software Engineering

Non-IBL Pathway

Semester 1 2027 units

MAT1830	Discrete mathematics for computer science
FIT2094	Databases
FIT2099	Object-oriented design and implementation
Level 1, 2 or 3 elective or engineering technical elective	

Semester 2 2027 units

FIT2101	Software engineering process and management
FIT2085	Introduction to computer science for engineers
FIT2107 (FIT3197)	Software quality and testing
FIT2100	Operating Systems

IBL Pathway

Semester 1 2027 units

MAT1830	Discrete mathematics for computer science
FIT2094	Databases
FIT2099	Object-oriented design and implementation
Level 1, 2 or 3 elective or engineering technical elective	

Semester 2 2027 units

FIT2101	Software engineering process and management
FIT2085	Introduction to computer science for engineers
FIT2107 (FIT3197)	Software quality and testing
FIT2100	Operating Systems

Intake: Commencing July/October 2025

Software Engineering

Non-IBL Pathway

Semester 1 2027 units

FIT3170	Software engineering practice
FIT3077	Software engineering architecture & design
FIT3159	Computer architecture
FIT2094	Databases

Note: FIT3171 is replaced with FIT2094

Semester 2 2027 units

FIT3184	Cloud Computing
FIT2004	Algorithms and data structures
FIT2100	Operating systems
Level 3 or 4 software engineering technical elective	

Note: SE technical elective list: [Link](#)

Note: Starting in 2027, FIT3170 will be converted from a 12 CP full-year unit to a 6 CP unit offered in Semester 1. Students will be required to complete FIT3184 Cloud Computing, a 6 CP core unit, in Semester 2.

IBL Pathway

Semester 1 2027 units

FIT3077	Databases
FIT3159	Object-oriented design and implementation
FIT2094	Databases
Level 3 or 4 software engineering technical elective	

Note: FIT3171 is replaced with FIT2094

Note: SE technical elective list: [Link](#)

Semester 2 2027 units

FIT4042	Industry Based Learning
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Note: Students who intend to go for IBL can move FIT3170 to their fourth year of study. BSE students who intend to go for IBL will need to express their interest in Y2S2 (March-April 2027). The IBL interview will be conducted in April 2027 (tentatively). Actual IBL placement will be in Y3S1 (July 2027). Upon successful placement, you will enroll into FIT4042 in Semester 2 2027.

Intake: Commencing February 2025

Software Engineering

Non-IBL Pathway

Semester 1 2027 units

FIT3170	Software engineering practice
FIT3077	Software engineering architecture & design
FIT3159	Computer architecture
FIT2094	Databases

Note: FIT3171 is replaced with FIT2094

Semester 2 2027 units

FIT3184	Cloud computing
FIT2004	Algorithms and data structures
FIT2100	Operating systems
Level 3 or 4 software engineering technical elective	

Note: SE technical elective list: [Link](#)

Note: Starting in 2027, FIT3170 will be converted from a 12 CP full-year unit to a 6 CP unit offered in Semester 1. Students will be required to complete FIT3184 Cloud Computing, a 6 CP core unit, in Semester 2.

IBL Pathway

Semester 1 2027 units

FIT3077	Databases
FIT3159	Object-oriented design and implementation
FIT2094	Databases
Level 3 or 4 software engineering technical elective	

Note: FIT3171 is replaced with FIT2094

Note: SE technical elective list: [Link](#)

Semester 2 2027 units

FIT4042	Industry Based Learning
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Note: Students who intend to go for IBL can move FIT3170 to their fourth year of study. BSE students who intend to go for IBL will need to express their interest in Y2S2 (March-April 2027). The IBL interview will be conducted in April 2027 (tentatively). Actual IBL placement will be in Y3S1 (July 2027). Upon successful placement, you will enroll into FIT4042 in Semester 2 2027.

Intake: Commencing July/October 2024

Software Engineering

Non-IBL Pathway

Semester 1 2027 units

FIT4002	Software engineering studio project
FIT4701	Final Year Project A
FIT3159	Computer architecture
Level 3 or 4 software engineering technical elective	

Note: SE technical elective list: [Link](#)

Semester 2 2027 units

FIT4002	Software engineering studio project
FIT4702	Final Year Project B
FIT2100	Operating systems
Level 3, 4 or 5 software engineering technical elective	

Note: SE technical elective list: [Link](#)

IBL Pathway

Semester 1 2027 units

FIT3170	Software engineering practice
FIT4701	Final Year Project A
FIT3159	Computer architecture
Level 3 or 4 software engineering technical elective	

Note: SE technical elective list: [Link](#)

Semester 2 2027 units

FIT3184	Cloud computing
FIT4702	Final Year Project B
FIT2100	Operating systems
Level 3, 4 or 5 software engineering technical elective	

Note: SE technical elective list: [Link](#)

Note: Starting in 2027, FIT3170 will be converted from a 12 CP full-year unit to a 6 CP unit offered in Semester 1. Students will be required to complete FIT3184 Cloud Computing, a 6 CP core unit, in Semester 2.

Intake: Commencing February 2024

Software Engineering

Non-IBL Pathway

Semester 1 2027 units

FIT4165	Computer networks
FIT4002	Software engineering studio project
FIT4701	Final Year Project A
Level 3, 4 or 5 software engineering technical elective	

Note: SE technical elective list: [Link](#)

Semester 2 2027 units

FIT4002	Software engineering studio project
FIT4702	Final Year Project B
Level 3, 4 or 5 software engineering technical elective	
Level 3, 4 or 5 software engineering technical elective	

Note: SE technical elective list: [Link](#)

IBL Pathway

Semester 1 2027 units

FIT4165	Computer networks
FIT3170	Software engineering practice
FIT4701	Final Year Project A
Level 3, 4 or 5 software engineering technical elective	

Note: SE technical elective list: [Link](#)

Semester 2 2027 units

FIT3170	Software engineering practice
FIT4702	Final Year Project B
Level 3, 4 or 5 software engineering technical elective	
Level 3, 4 or 5 software engineering technical elective	

Note: SE technical elective list: [Link](#)

Intake: Commencing July/October 2023

Software Engineering

Non-IBL Pathway

Semester 1 2027 units

FIT4165	Computer networks
	Level 3 or 4 software engineering technical elective
	Level 3, 4 or 5 software engineering technical elective
	Level 3, 4 or 5 software engineering technical elective

Note: SE technical elective list: [Link](#)

IBL Pathway

Semester 1 2027 units

FIT4165	Computer networks
	Level 3 or 4 software engineering technical elective
	Level 3, 4 or 5 software engineering technical elective
	Level 3, 4 or 5 software engineering technical elective

Note: SE technical elective list: [Link](#)

Graduation Requirements for Software Engineering Technical Electives

To satisfy graduation requirements, students must successfully complete:

- **24 credit points (CPs)** of Level 3 or Level 4 Software Engineering (SE) technical electives.
- **6 credit points (CPs)** of Level 4 or Level 5 SE technical electives.

Note: Students may enroll in a maximum of three Level 5 SE technical electives.