MONASH University

Course progression map for 2020 commencing students

This progression map provides advice on the suitable sequencing of units and guidance on how to plan unit enrolment for each semester of study. It should be used in conjunction with the requirements of the course as specified in the Handbook. This map is subject to updates. Update version: 18 December 2023

E3007 Bachelor of Engineering (Honours) and Bachelor of Science

Common first level engineering

If no foundation units are required:				
YEAR 1 Semester 1	ENG1060 Computing for engineers	ENG1005 Engineering mathematics	Science unit	Science unit
YEAR 1 Semester 2	ENG1002 Engineering design: cleaner, safer, smarter	ENG1003 Engineering mobile apps	Science unit	Science unit
YEAR 2 Semester 1	ENG1001 Engineering design: lighter, faster, stronger	First Year engineering elective unit	Science unit	Science unit
Tip: You can swap the semester of ENG1003 and your Engineering elective unit.				

If you need to enrol in foundation physics and maths*:					
YEAR 1 Semester 1	PHS1001 Foundation physics	ENG1090 Foundation Mathematics	Science unit	Science unit	
YEAR 1 Semester 2	ENG1002 Engineering design: cleaner, safer, smarter	ENG1005 Engineering mathematics	Science unit	Science unit	
YEAR 2 Semester 1	ENG1001 Engineering design: lighter, faster, stronger	ENG1060 Computing for engineers	Science unit	Science unit	ENG1003 Engineering mobile apps
1. If you require two foundation units, you will need to take the remaining core unit ENG1003 Engineering mobile apps in semester one of year two as an overload, and increase the total credit points needed for the double by 6 points. 2. If you want to complete Software Engineering, you must complete ENG1003 Engineering mobile apps in Year 1 (Semester 1) and PHYS1001 Foundation physics in Year 2 (Semester 1) as an overload. Tip: You can swap the semesters of ENG1003 and ENG1005.					

If you need to enrol in foundation maths:				
YEAR 1 Semester 1	ENG1002 Engineering design: cleaner, safer, smarter	ENG1090 Foundation Mathematics	Science unit	Science unit
YEAR 1 Semester 2	ENG1060 Computing for engineers	ENG1005 Engineering Mathematics	Science unit	Science unit
YEAR 2 Semester 1	ENG1001 Engineering design: lighter, faster, stronger	ENG1003 Engineering mobile apps	Science unit	Science unit
Tip: You can swap the semesters of ENG1003 and ENG1005.				

If you need to enrol in foundation physics:				
YEAR 1 Semester 1	ENG1002 Engineering design: cleaner, safer, smarter	PHS1001 Foundation physics	Science unit	Science unit
YEAR 1 Semester 2	ENG1060 Computing for engineers	ENG1005 Engineering Mathematics	Science unit	Science unit
YEAR 2 Semester 1	ENG1001 Engineering design: lighter, faster, stronger	ENG1003 Engineering mobile apps	Science unit	Science unit
Tip: You can swap the semesters of ENG1003 and ENG1005.				

Note:

- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information refer to the CPD webpage.
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E3007 Bachelor of Engineering (Honours) and Bachelor of Science

Specialisation - Aerospace Engineering

	Bachelor of Aerospace Engineering (Honours)		Bachelor of Science		
YEAR 1 Semester 1	**Common first level engineering**		Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 1 Semester 2			Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 2 Semester 1			Level 2 science major unit	Level 1 science unit	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	MAE2402 Thermodynamics and heat transfer Unit title change from 2021	Level 2 science major unit	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced) *	
YEAR 3 Semester 1	MAE2401 Aircraft structures 1 Replace with MEC2403 from 2023	MAE2412 Aerospace design Replace with MEC2402 from 2023	Level 3 science major unit	Science elective	
YEAR 3 Semester 2	MAE2404 Aerodynamics I	MAE2505 Aerospace dynamics	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 1	MAE3401 Aerodynamics 2	MAE3404 Flight vehicle dynamics	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 2	MAE3411 Aerospace structural mechanics	MAE3405 Flight vehicle propulsion Unit title change from 2022	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 5 Semester 1	ENG4701 Final year project A	MAE3456 Aerospace computational mechanics Replace with MEC3456 from 2023	MAE4416 Orbital mechanics and spaceflight dynamics	MAE4404 Aerospace practices and airworthiness Replace with MEC4404 from 2023	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	MAE3408 Aerospace control	MAE4426 Finite element analysis and composite structures	MAE4410 Flight vehicle design	

Note:

- * From 2021, you are required to replace SCI2010/SCI2015 with a level two or three science elective.
- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate with a Bachelor of Engineering (Honours). For further information refer to the CPD webpage.
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E3007 Bachelor of Engineering (Honours) and Bachelor of Science

Specialisation - Chemical Engineering

	Bachelor of Chemical Engineering (Honours)		Bachelor of Science		
YEAR 1 Semester 1	**Common first level engineering**		Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 1 Semester 2			Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 2 Semester 1			Level 2 science major unit	Level 1 science unit	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	CHE2161 Mechanics of fluids	CHE2163 Heat and mass transfer	Level 2 science major unit	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced) *	
YEAR 3 Semester 1	CHM1011 Chemistry 1 or CHM1051 Chemistry 1 Advanced	CHE2164 Thermodynamics 1	Level 3 science major unit	Science elective	
YEAR 3 Semester 2	CHE2162 Materials and energy balances	ENG2005 Advanced engineering mathematics	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 1	CHE3161 Chemistry and chemical thermodynamics	CHE3165 Separation processes	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 2	CHE3166 Process design	CHE3164 Reaction engineering	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 5 Semester 1	ENG4701 Final year project A	CHE4162 Particle technology	CHE4161 Engineer in society	CHE3167 Transport phenomena and numerical methods	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	CHE4170 Design project		CHE3162 Process control	

Note:

- * From 2021, you are required to replace SCI2010/SCI2015 with a level two or three science elective.
- CHE4164 and CHE4165 are integrated industrial project units for select students only. The units are undertaken in place of the final year project units ENG4701 and ENG4702. Depending on placement location, you may have to overload a semester or extend an additional semester in order to complete your course.
- CHE4170 - You should not overload in the semester when undertaking this unit.
- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate with a Bachelor of Engineering (Honours). For further information refer to the CPD webpage.
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E3007 Bachelor of Engineering (Honours) and Bachelor of Science

Specialisation - Civil Engineering

	Bachelor of Civil Engineering (Honours)		Bachelor of Science		
YEAR 1 Semester 1	**Common first level engineering**		Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 1 Semester 2			Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 2 Semester 1			Level 2 science major unit	Level 1 science unit	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	Science elective	Level 2 science major unit	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced) *	
YEAR 3 Semester 1	CIV2282 Transport and traffic engineering	CIV2263 Water systems	CIV2206 Structural mechanics	Level 3 science major unit	
YEAR 3 Semester 2	CIV2242 Geomechanics 1	CIV2235 Structural materials	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 1	CIV3285 Engineering hydrology	CIV3294 Structural design	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 2	CIV3247 Geomechanics 2	CIV3221 Building structures and technology	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 5 Semester 1	ENG4701 Final year project A	CIV3248 Groundwater and environmental geomechanics	CIV4286 Project management for civil engineers	CIV4280 Bridge design and assessment	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	CIV4212 Civil and environmental engineering practice	CIV3283 Road engineering	CIV4288 Water treatment	

Note:

- * From 2021, you are required to replace SCI2010/SCI2015 with a level two or three science elective.
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Course progression map for 2020 commencing students

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E3007 Bachelor of Engineering (Honours) and Bachelor of Science

Specialisation - Electrical and Computer Systems Engineering

	Bachelor of Electrical and Computer Systems Engineering (Honours)		Bachelor of Science		
YEAR 1 Semester 1	**Common first level engineering**		Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 1 Semester 2			Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 2 Semester 1			Level 2 science major unit	Level 1 science unit	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	ECE2072 Digital systems	Level 2 science major unit	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced) *	
YEAR 3 Semester 1	ECE2071 Computer organisation and programming	ECE2131 Electrical circuits	Level 3 science major unit	Science elective	
YEAR 3 Semester 2	ECE2111 Signals and systems	ECE2191 Probability models in engineering	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 1	ECE3073 Computer systems	ECE3141 Information and networks	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 2	ECE3121 Engineering electromagnetics Replace ECE3121 with ECE3122 in 2024	ECE4132 Control system design	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 5 Semester 1	ENG4701 Final year project A	ECE3161 Analogue electronics	ECE3051 Electrical energy systems	Level 4 or 5 ECE-coded core elective	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	ECE4191 Engineering integrated design	Level 4 or 5 ECE-coded core elective	ECE4099 Professional Practice	

Note:

- * From 2021, you are required to replace SCI2010/SCI2015 with a level two or three science elective.
- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate with a Bachelor of Engineering (Honours). For further information refer to the CPD webpage.
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Course progression map for 2020 commencing students

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E3007 Bachelor of Engineering (Honours) and Bachelor of Science

Specialisation - Environmental Engineering

	Bachelor of Environmental Engineering (Honours)		Bachelor of Science		
YEAR 1 Semester 1	**Common first level engineering**		Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 1 Semester 2			Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 2 Semester 1			Level 2 science major unit	Level 1 science unit	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	CHE2162 Material and energy balances	Level 2 science major unit	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced) *	
YEAR 3 Semester 1	ENE2021 Energy and the environment	CIV2263 Water systems	Level 3 science major unit	Science elective	
YEAR 3 Semester 2	ENE3031 Building sustainability	ENE2503 Materials properties and recycling	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 1	CIV3248 Groundwater and environmental geomechanics	CHE2164 Thermodynamics 1	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 2	ENE3606 The air environment	ENE3032 Fate and transport of contaminants	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 5 Semester 1	ENG4701 Final year project A	BTX3100 Sustainability regulation for business	CIV3285 Engineering hydrology	ENE4042 Environment impact and risk assessment	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	CIV4286 Project management for civil engineers	CIV4212 Civil and environmental engineering practice	ENE4041 Soil remediation and solid waste management	

Note:

- * From 2021, you are required to replace SCI2010/SCI2015 with a level two or three science elective.
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E3007 Bachelor of Engineering (Honours) and Bachelor of Science

Specialisation - Materials Engineering

	Bachelor of Materials Engineering (Honours)		Bachelor of Science		
YEAR 1 Semester 1	**Common first year engineering**		Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 1 Semester 2			Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 2 Semester 1			Level 2 science major unit	Level 1 science unit	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	MTE2201 Polymers	ENG2005 Advanced engineering mathematics	Level two science major unit	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced) *	
YEAR 3 Semester 1	MTE2101 Atomic-scale structure of materials	MTE2102 Phase equilibria and phase transformations	MTE2103 Mechanical properties of materials	Level 3 science major unit	
YEAR 3 Semester 2	MTE2202 Functional materials 1	MTE3203 Introduction to ceramics: Properties, processing and applications	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 1	MTE3103 Materials life cycle	MTE3101 Materials in a complex world 1: People, projects and data	MTE3102 plasticity of metals and alloys	Level 2 or 3 science elective	
YEAR 4 Semester 2	MTE3202 Functional materials 2	MTE3201 Materials in a complex world 2: Characterisation, identification and selection	Science elective	Level 2 or 3 science elective	
YEAR 5 Semester 1	ENG4701 Final year project A	MTE4101 Integrated design project	MTE4102 Advanced materials processing and manufacturing	Level 3 science major unit	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	MTE4201 Materials in a complex world 3: Impact in society	Level 4 or 5 MTE-coded materials engineering core elective	Level 3 science major unit	

Note:

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E3007 Bachelor of Engineering (Honours) and Bachelor of Science

Specialisation - Mechanical Engineering

	Bachelor of Mechanical Engineering (Honours)		Bachelor of Science		
YEAR 1 Semester 1	**Common first year engineering**		Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 1 Semester 2			Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 2 Semester 1			Level 2 science major unit	Level 1 science unit	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	Science elective	Level 2 science major unit	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced) *	
YEAR 3 Semester 1	MEC2402 Design methods	MEC2403 Mechanics of materials	MEC2401 Dynamics I	Level 3 science major unit	
YEAR 3 Semester 2	MEC2404 Mechanics of fluids	MEC2405 Thermodynamics	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 1	MEC3455 Solid Mechanics	MEC3456 Engineering computational analysis	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 2	MEC3416 Machine design	MEC3457 Systems and control	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 5 Semester 1	ENG4701 Final year project A	MEC4408 Thermodynamics and heat transfer	MEC3451 Fluid Mechanics 2	MEC4404 Professional practice	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	MEC4426 Computer-aided design	MEC3453 Dynamics 2	MEC4407 Design project	

Note:

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E3007 Bachelor of Engineering (Honours) and Bachelor of Science

Specialisation – Robotics and Mechatronics Engineering *(Artificial intelligence stream)*

	Bachelor of Robotics and Mechatronics Engineering (Honours)		Bachelor of Science		
YEAR 1 Semester 1	**Common first level engineering**		Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 1 Semester 2			Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 2 Semester 1			Level 2 science major unit	Level 1 science unit	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	Science elective	Level 2 science major unit	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced) *	
YEAR 3 Semester 1	ECE2071 Computer organisation and programming	MEC2402 Design methods	ECE2131 Electrical circuits	Level 3 science major unit	
YEAR 3 Semester 2	TRC2201 Mechanics	ECE2072 Digital systems	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 1	TRC3500 Sensors and artificial perception	TRC3200 Dynamical systems	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 2	TRC3600 Modelling and control	TRC4002 Professional practice	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 5 Semester 1	ENG4701 Final year project A	TRC4800 Robotics	ECE3161 Analogue electronics	ECE4076 Computer vision	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	ECE4078 Intelligent robotics	ECE4179 Neural networks and deep learning	ECE4191 Engineering integrated design	

Note:

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E3007 Bachelor of Engineering (Honours) and Bachelor of Science

Specialisation – Robotics and Mechatronics Engineering *(Automation stream)*

	Bachelor of Robotics and Mechatronics Engineering (Honours)		Bachelor of Science		
YEAR 1 Semester 1	**Common first level engineering**		Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 1 Semester 2			Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 2 Semester 1			Level 2 science major unit	Level 1 science unit	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	Science elective	Level 2 science major unit	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced) *	
YEAR 3 Semester 1	ECE2071 Computer organisation and programming	MEC2402 Design methods	ECE2131 Electrical circuits	Level 3 science major unit	
YEAR 3 Semester 2	TRC2201 Mechanics	ECE2072 Digital systems	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 1	TRC3500 Sensors and artificial perception	TRC3200 Dynamical systems	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 4 Semester 2	TRC3600 Modelling and control	TRC3000 Automation project	Level 3 science major unit	Level 2 or 3 science elective	
YEAR 5 Semester 1	ENG4701 Final year project A	TRC4800 Robotics	ECE3161 Analogue electronics	TRC4200 Engineering cyber-physical systems	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	TRC4902 Mechatronics and manufacturing	TRC4802 Thermo-fluids and power systems	TRC4002 Professional practice	

Note:

- * From 2021, you are required to replace SCI2010/SCI2015 with a level two or three science elective.
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E3007 Bachelor of Engineering (Honours) and Bachelor of Science

Specialisation - Software Engineering

	Bachelor of Software Engineering (Honours)		Bachelor of Science		
YEAR 1 Semester 1	**Common first level engineering**		Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 1 Semester 2			Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
YEAR 2 Semester 1			Level 2 science major unit	Level 1 science unit	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	FIT2085 Introduction to computer science	FIT2101 Software engineering process and management	Level 2 science major unit	SCI2010 Scientific practice and communication or SCI2015 Scientific practice and communication (advanced) *	
YEAR 3 Semester 1	MAT1830 Discrete mathematics for computer science	FIT2099 Object-oriented design and implementation	FIT2004 Algorithms and data structures	Level 3 science major unit	
YEAR 3 Semester 2	FIT2107 Software quality and testing	FIT2100 Operating systems	Level 2 or 3 science elective	Level 3 science major unit	
YEAR 4 Semester 1	FIT3170 Software engineering practice (12 points)	FIT3077 Software engineering: architecture and design	FIT3159 Computer architecture	Level 3 science major unit	
YEAR 4 Semester 2		FIT3171 Databases	Science elective	Level 3 science major unit	
YEAR 5 Semester 1	FIT4002 Software engineering industry experience studio project (12 points)	FIT4003 Software engineering research project Replace with FIT4701 from 2023	FIT4165 Computer networks	Level 2 or 3 science elective	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2		Replace with FIT4702 from 2023	Level 4 or 5 software engineering core elective	Level 2 or 3 science elective	

Note:

- * From 2021, you are required to replace SCI2010/SCI2015 with a level two or three science elective.
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