MONASH University

Course progression map for 2017 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. The map is subject to updates. Update version: 18 December 2023

E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Aerospace engineering

	Bachelor of Aerospace Engineering (Honours)		Bachelor of Arts		
YEAR 1 Semester 1	ENG1001 Engineering design: Lighter, faster, stronger *or* ENG1002 Engineering design: Cleaner, safer, smarter	ENG1003 Engineering mobile apps *or* ENG1005 Engineering mathematics	Foundation unit *or* ENG1060 Computing for engineers	Arts major	
YEAR 1 Semester 2	ENG1002 Engineering design: Cleaner, safer, smarter *or* ENG1001 Engineering design: Lighter, faster, stronger	ENG1005 Engineering mathematics *or* ENG1003 Engineering mobile apps	Engineering elective *or* ENG1060 Computing for engineers (if not taken in S1)	Arts major	
YEAR 2 Semester 1	ENG2005 Advanced engineering mathematics	MEC2401 Dynamics	Arts minor	Arts major	If two foundation units are required then overload is required for PHS1080 Foundation physics *This unit is replaced by PHS1001 Foundation physics from 2018*
YEAR 2 Semester 2	MAE2404 Aerodynamics 1	MAE2405 Aircraft performance	Arts minor	Arts major	
YEAR 3 Semester 1	MAE2401 Aircraft structures 1 Replace with MEC2403 from 2023	MAE3401 Aerodynamics 2	Arts minor	Arts major	
YEAR 3 Semester 2	MAE2402 Thermodynamics and heat transfer Unit title change in 2021	MAE3405 Flight vehicle propulsion Unit title change in 2022	Arts minor	Arts major	
YEAR 4 Semester 1	MAE3456 Aerospace computational mechanics Replace with MEC3456 from 2023	MAE3404 Flight vehicle dynamics	Arts elective	Arts major	
YEAR 4 Semester 2	MAE3426 Computer-aided design	MAE3408 Aerospace control	Arts elective	Arts major	
YEAR 5 Semester 1	MEC4401 Final year project Replace with ENG4701 from 2021/22	MAE4404 Aerospace practices Replace with MEC4404 from 2023	MAE4411 Aircraft structures 2	Arts elective	
YEAR 5 Semester 2	MEC4402 Final year – thesis Replace with ENG4702 from 2022	MAE4410 Flight vehicle design	MAE4408 Damage tolerance and airworthiness	Arts elective	

Note:

Double degree students requiring two foundation units will need to overload in year 1 or 2 and increase the total credit points needed for the double by 6 points
All Bachelor of Engineering (Honours) students are required to complete Continuous Professional Development (CPD) in order to graduate. For CPD advice, refer to the CPD webpage.

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Course progression map for 2017 commencing students

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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Chemical engineering

	Bachelor of Chemical Engineering (Honours)		Bachelor of Arts		
YEAR 1 Semester 1	ENG1001 Engineering design: Lighter, faster, stronger *or* ENG1002 Engineering design: Cleaner, safer, smarter	ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics	Foundation unit *or* ENG1060 Computing for engineers	Arts major	
YEAR 1 Semester 2	ENG1002 Engineering design: Cleaner, safer, smarter *or* ENG1001 Engineering design: Lighter, faster, stronger	ENG1005 Engineering mathematics *or* ENG1003 Engineering mobile apps	Engineering elective *or* ENG1060 Computing for engineers (if not taken in Sem 1)	Arts major	
YEAR 2 Semester 1	CHM1011 Chemistry 1 (if not already completed at level one) *or* CHM1051 Chemistry 1 advanced	CHE2161 Mechanics of fluids (if not already completed at level one)	Arts minor	Arts major	If two foundation units are required then overload is required for PHS1080 Foundation physics *This unit is replaced by PHS1001 Foundation physics from 2018*
YEAR 2 Semester 2	CHE2162 Material and energy balances	ENG2005 Advanced engineering mathematics	Arts minor	Arts major	
YEAR 3 Semester 1	CHE2164 Thermodynamics 1	CHE3167 Transport phenomena and numerical methods	Arts minor	Arts major	
YEAR 3 Semester 2	CHE2163 Heat and mass transfer	CHE3162 Process control	Arts minor	Arts major	
YEAR 4 Semester 1	CHE3161 Chemistry and chemical thermodynamics	CHE3165 Separation processes	Arts elective	Arts major	
YEAR 4 Semester 2	CHE3166 Process design	CHE3164 Reaction engineering	Arts elective	Arts major	
YEAR 5 Semester 1	CHE4164 Integrated industrial project (18 points) For selected students taking a period of integrated industrial training in the first semester of their final year. This will replace the two core units below [CHE4161 and CHE4180 (or ENG4701 and ENG4702)]			Arts elective	
OR					
YEAR 5 Semester 1	CHE4180 Chemical engineering project Replace with ENG4701 from 2021. *See footnote.*	CHE4162 Particle technology	CHE4161 Engineer in society	Arts elective	
YEAR 5 Semester 2	ENG4702 Final year project B See footnote	CHE4170 Design project (12 points)		Arts elective	

Note:

- From 2021, ENG4701 and ENG4702 will replace the 12 credit points CHE4180, therefore extending the final year project over two semesters. Please seek course advice if needed.
- Double degree students requiring two foundation units will need to overload in Year 1 or 2 and increase the total credit points needed for the double by 6 points.
- Depending on placement location, students who choose CHE4164 may have to overload a semester or extend an additional semester in order to complete their course requirement.
- Students should not overload in the semester of undertaking CHE4170.
- All Bachelor of Engineering (Honours) students are required to complete Continuous Professional Development (CPD) in order to graduate. For CPD advice, refer to the CPD webpage

MONASH University

Course progression map for 2017 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. The map is subject to updates. Update version: 18 December 2023

E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Civil engineering

	Bachelor of Civil Engineering (Honours)		Bachelor of Arts		
YEAR 1 Semester 1	ENG1001 Engineering design: Lighter, faster, stronger *or* ENG1002 Engineering design: Cleaner, safer, smarter	ENG1003 Engineering mobile apps *or* ENG1005 Engineering mathematics	Foundation unit *or* ENG1060 Computing for engineers	Arts major	
YEAR 1 Semester 2	ENG1002 Engineering design: Cleaner, safer, smarter *or* ENG1001 Engineering design: Lighter, faster, stronger	ENG1005 Engineering mathematics *or* ENG1003 Engineering mobile apps	Engineering elective *or* ENG1060 Computing for engineers (if not taken in Sem 1)	Arts major	
YEAR 2 Semester 1	CIV2225 Design of steel and timber structures Replace with CIV2235 from 2021	CIV2206 Mechanics of solids Unit title change from 2019	Arts minor	Arts major	If two foundation units are required then overload is required for PHS1080 Foundation physics *This unit is replaced by PHS1001 Foundation physics from 2018*
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	CIV2242 Geomechanics 1	Arts minor	Arts major	
YEAR 3 Semester 1	CIV2263 Water systems	CIV3284 Design of concrete and masonry structures Replace with CIV3294 from 2022	Arts minor	Arts major	
YEAR 3 Semester 2	CIV3247 Geomechanics 2	CIV3204 Engineering investigation See footnote	Arts minor	Arts major	
YEAR 4 Semester 1	CIV3248 Groundwater and environmental geomechanics	CIV3285 Engineering hydrology	Arts elective	Arts major	
YEAR 4 Semester 2	CIV2282 Transport and traffic engineering	CIV3221 Building structures and technology	Arts elective	Arts major	
YEAR 5 Semester 1	CIV4210 Project A Replace with ENG4701 from 2022. See footnote.	CIV4286 Project management for civil engineers	CIV4280 Bridge design and assessment	Arts elective	
YEAR 5 Semester 2	CIV4287 Road Engineering Replace with ENG4702 from 2022. See footnote	CIV4212 Civil and environmental engineering practice	CIV4288 Water treatment	Arts elective	

Note:

- **FROM 2022:** Following a recent advice by Engineers Australia, you must complete 12 CP of a final year project in order to meet professional accreditation requirements. Please seek course advice from the Student Services at the Faculty of Engineering.
- **CIV4210** – If you are course-completing in 2022/S1, complete CIV4210 (for 6CP FYP) or CIV4211 (if undertaking 12CP FYP). Otherwise, replace CIV4210 with ENG4701 from 2022.
- **CIV3204** – If you have not completed CIV3204 by 2021, replace CIV3204 with CIV3283 Road engineering from 2022.
- **CIV4287** – If you have completed CIV3204 but not CIV4287 by 2021, replace CIV4287 with ENG4702 from 2022. CIV3283 is highly recommended to be taken as a level 3 civil engineering technical elective.
- The placement of units may be rearranged to support sequencing for double degree courses but care should be taken to ensure sequenced units are maintained in sequence.
- 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.
- For enrolment advice, please refer to the Course Advisers webpage

MONASH University

Course progression map for 2017 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. The map is subject to updates. Update version: 18 December 2023

E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Electrical and computer systems engineering

	Bachelor of Electrical and Computer Systems Engineering (Honours)		Bachelor of Arts		
YEAR 1 Semester 1	ENG1001 Engineering design: Lighter, faster, stronger *or* ENG1002 Engineering design: Cleaner, safer, smarter	ENG1003 Engineering mobile apps *or* ENG1005 Engineering mathematics	Foundation unit *or* ENG1060 Computing for engineers	Arts major	
YEAR 1 Semester 2	ENG1002 Engineering design: Cleaner, safer, smarter *or* ENG1001 Engineering design: Lighter, faster, stronger	ENG1005 Engineering mathematics *or* ENG1003 Engineering mobile apps	Engineering elective *or* ENG1060 Computing for engineers (if not taken in S1)	Arts major	
YEAR 2 Semester 1	ENG2005 Advanced engineering mathematics	ECE2071 Computer organisation and programming	Arts minor	Arts major	If two foundation units are required then overload is required for PHS1080 Foundation physics *This unit is replaced by PHS1001 Foundation physics from 2018*
YEAR 2 Semester 2	ECE2072 Digital systems (if not already taken at level one)	ECE2191 Probability models in engineering	Arts minor	Arts major	
YEAR 3 Semester 1	ECE2131 Electrical circuits	ECE3073 Computer systems	Arts minor	Arts major	
YEAR 3 Semester 2	ECE2111 Signals and systems	ECE3121 Engineering electromagnetics Replace ECE3121 with ECE3122 in 2024	Arts minor	Arts major	
YEAR 4 Semester 1	ECE3161 Analogue electronics	ECE3141 Information and networks	Arts elective	Arts major	
YEAR 4 Semester 2	ECE3091 Engineering design Replace with ECE4191 from 2022. See footnote	ECE3051 Electrical energy systems	Arts elective	Arts major	
YEAR 5 Semester 1	ECE4094 Project A Replace with ENG4701 from 2021/22	Level 4 or 5 ECE-coded core elective	Level 4 or 5 ECE-coded core elective	Arts elective	
YEAR 5 Semester 2	ECE4095 Project B Replace with ENG4702 from 2022	ECE4132 Control system design**	ECE4099 Professional practice	Arts elective	

* This unit replaces ECE4151 Electrical energy systems
** This unit replaces ECE3132 Control systems design

ECE3091 – Replace with ECE4191 if you have not completed ECE3091 by 2021. ECE4191 should be undertaken in your final year of study by swapping placement on the course map with ECE4132 or the level 4 ECSE technical elective.
Double degree students requiring two foundation units will need to overload in year 1 or 2 and increase the total credit points needed for the double by 6 points.

All Bachelor of Engineering (Honours) students are required to complete Continuous Professional Development (CPD) in order to graduate. For CPD advice, refer to the CPD webpage

MONASH University

Course progression map for 2017 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. The map is subject to updates. Update version: 18 December 2023

E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Environmental engineering

	Bachelor of Environmental Engineering (Honours)		Bachelor of Arts		
YEAR 1 Semester 1	ENG1001 Engineering design: Lighter, faster, stronger *or* ENG1002 Engineering design: Cleaner, safer, smarter	ENG1003 Engineering mobile apps *or* ENG1005 Engineering mathematics	Foundation unit *or* ENG1060 Computing for engineers	Arts major	
YEAR 1 Semester 2	ENG1002 Engineering design: Cleaner, safer, smarter *or* ENG1001 Engineering design: Lighter, faster, stronger	ENG1005 Engineering mathematics *or* ENG1003 Engineering mobile apps	Engineering elective *or* ENG1060 Computing for engineers (if not taken in S1)	Arts major	
YEAR 2 Semester 1	ECC2800 Prosperity, poverty and sustainability in a globalised world	BIO2011 Ecology and biodiversity	Arts minor	Arts major	If two foundation units are required then overload is required for PHS1080 Foundation physics *Replaced by PHS1001 from 2018*
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	CHE2162 Material and energy balances	Arts minor	Arts major	
YEAR 3 Semester 1	ENE3048 Energy and the environment Replace with ENE2021 from 2019	CIV2263 Water systems	Arts minor	Arts major	
YEAR 3 Semester 2	CHE2164 Thermodynamics 1	ENE2503 Materials properties and recycling	Arts minor	Arts major	
YEAR 4 Semester 1	CIV3248 Groundwater and environmental geomechanics	CIV3285 Engineering hydrology	Arts elective	Arts major	
YEAR 4 Semester 2	Environmental engineering technical elective at level 4	ENE3606 The air environment	Arts elective	Arts major	
YEAR 5 Semester 1	***Streams: Geomechanics, Transport, Water management*** CIV4210 Project A Replace with ENG4701 from 2022. See footnote.	BTX3100 Sustainability regulation for business	ENE3608 Environmental impact assessment and management systems Replaced by ENE4042	Arts elective	
YEAR 5 Semester 2	ENE4607 Environmental risk assessment Replace with ENG4702 from 2022. See footnote.	***Streams: Geomechanics, Transport, Water management*** CIV4212 Civil and environmental engineering practice ***Stream: Sustainable processing*** CHE4170 Design project	CIV4286 Project management for civil engineers	Arts elective	

Note:

- **FROM 2022:** Following a recent advice by Engineers Australia, you must complete 12 CP of a final year project (FYP) in order to meet professional accreditation requirements. To undertake 12CP FYP units ENG4701 and ENG4702, you must free up 6 credit points by reserving the level 4 technical elective (the 6 CP elective that counts towards the Part C and D of the course requirement) for the FYP or by dropping **ENE4607 or BTX3100** (if you haven't already completed these units by 2021). Please seek course advice from the Student Services at the Faculty of Engineering.
- **CIV4210** – If you are course-completing in 2022/S1, complete CIV4210 (if undertaking 6CP FYP only) or CIV4211 (if undertaking 12CP FYP). Otherwise, replace CIV4210 with ENG4701 from 2022.
- The placement of units may be rearranged to support sequencing for double degree courses but care should be taken to ensure sequenced units are maintained in sequence.
- 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.
- For enrolment advice, please refer to the Course Advisers webpage..

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Course progression map for 2017 commencing students

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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Materials engineering

	Bachelor of Materials Engineering (Honours)		Bachelor of Arts		
YEAR 1 Semester 1	ENG1001 Engineering design: Lighter, faster, stronger *or* ENG1002 Engineering design: Cleaner, safer, smarter	ENG1003 Engineering mobile apps *or* ENG1005 Engineering mathematics	Foundation unit *or* ENG1060 Computing for engineers	Arts major	
YEAR 1 Semester 2	ENG1002 Engineering design: Cleaner, safer, smarter *or* ENG1001 Engineering design: Lighter, faster, stronger	ENG1005 Engineering mathematics *or* ENG1003 Engineering mobile apps	Engineering elective *or* ENG1060 Computing for engineers (if not taken in S1)	Arts major	
YEAR 2 Semester 1	MTE2541 Crystal structures, thermodynamics and phase equilibria See footnote 1	MTE2544 Functional materials Replace with MTE2202 from 2021 (Semester 2 offering)	Arts minor	Arts major	If two foundation units are required then overload is required for PHS1080 Foundation physics *This unit is replaced by PHS1001 Foundation physics from 2018*
YEAR 2 Semester 2	ENG2005 Advanced engineering maths	MTE2542 Microstructural development Replace with MTE2102 from 2021 (Semester 1 offering)	Arts minor	Arts major	
YEAR 3 Semester 1	MTE2546 Mechanics of materials Replace with MTE2103 from 2021.	MTE3541 Materials durability Replace with MTE3103 from 2022.	Arts minor	Arts major	
YEAR 3 Semester 2	MTE2545 Polymers and ceramics 1 See footnote 2	MTE3545 Functional materials and devices Replace with MTE3202 from 2022.	Arts minor	Arts major	
YEAR 4 Semester 1	MTE3543 Microstructure to applications: The mechanics of materials See footnote 3	MTE3542 Microstructural design in structural materials Replace with MTE3102 from 2022.	Arts elective	Arts major	
YEAR 4 Semester 2	MTE3547 Materials characterisation and modelling See footnote 1	MTE3546 Polymers and ceramics 2 Replace with MTE3203 from 2022. See footnote 2	Arts elective	Arts major	
YEAR 5 Semester 1	MTE4525 Project 1 Replace with ENG4701 from 2021/22	MTE4571 Materials engineering design and practice See footnote 3	MTE4572 Polymer and composite processing and engineering See footnote 3	Arts elective	
YEAR 5 Semester 2	MTE4526 Project 2 Replace with ENG4702 from 2022	MTE4573 Processing and engineering of metals and ceramics See footnote 3	Level 4 or 5 MTE-coded materials engineering core elective	Arts elective	

Note:

1. **MTE2101 and MTE3101 will be replacing MTE2541 and MTE3547** respectively. If you have completed MTE2541 prior to 2021, you must complete MTE3547 (last offering 2021). Otherwise, complete MTE2101 and MTE3101 combination.
2. **MTE2201 and MTE3203 will be replacing MTE2545 and MTE3546** respectively. If you have completed MTE2545 prior to 2021, you must complete MTE3546 (last offering 2021). Otherwise, complete MTE2201 and MTE3203 combination.
3. You must complete the **(MTE3543+MTE4571+MTE4572+MTE4573)** combination (last offerings 2022). Otherwise, complete **(MTE3201+MTE4101+MTE4102+MTE4201)** combination.

- The placement of units may be rearranged to support sequencing for double degree courses but care should be taken to ensure sequenced units are maintained in sequence.
- Double degree students requiring two foundation units will need to overload in year 1 or 2 and increase the total credit points needed for the double by 6 points.
- All Bachelor of Engineering (Honours) students are required to complete Continuous Professional Development (CPD) in order to graduate. For CPD advice, refer to the CPD webpage
- For enrolment advice, please refer to the Course Advisers webpage.

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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Mechanical engineering

	Bachelor of Mechanical Engineering (Honours)		Bachelor of Arts		
YEAR 1 Semester 1	ENG1001 Engineering design: Lighter, faster, stronger *or* ENG1002 Engineering design: Cleaner, safer, smarter	ENG1003 Engineering mobile apps *or* ENG1005 Engineering mathematics	Foundation unit *or* ENG1060 Computing for engineers	Arts major	
YEAR 1 Semester 2	ENG1002 Engineering design: Cleaner, safer, smarter *or* ENG1001 Engineering design: Lighter, faster, stronger	ENG1005 Engineering mathematics *or* ENG1003 Engineering mobile apps	Engineering elective *or* ENG1060 Computing for engineers (if not taken in S1)	Arts major	
YEAR 2 Semester 1	MEC2403 Mechanics of materials	MEC2401 Dynamics 1	Arts minor	Arts major	If two foundation units are required then overload is required for PHS1080 Foundation physics *This unit is replaced by PHS1001 Foundation physics from 2018*
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	MEC2404 - Mechanics of fluids	Arts minor	Arts major	
YEAR 3 Semester 1	MEC2402 Engineering design 1 *Unit title change in 2021*	MEC3456 Engineering computational mechanics	Arts minor	Arts major	
YEAR 3 Semester 2	MEC2405 Thermodynamics	MEC3457 Systems and control	Arts minor	Arts major	
YEAR 4 Semester 1	MEC3455 Solid mechanics	MEC3451 Fluid mechanics 2	Arts elective	Arts major	
YEAR 4 Semester 2	MEC3416 Engineering design 2 *Unit title change in 2021*	MEC3453 Dynamics 2	Arts elective	Arts major	
YEAR 5 Semester 1	MEC4401 Final year project Replace with ENG4701 from 2021/22	MEC4408 Thermodynamics and heat transfer	MEC4404 Professional practice	Arts elective	
YEAR 5 Semester 2	MEC4402 Final year project – Thesis Replace with ENG4702 from 2022	MEC4426 Computer-aided design	MEC4407 Engineering design 3 *Unit title change from 2021*	Arts elective	

Double degree students requiring two foundation units will need to overload in year 1 or 2 and increase the total credit points needed for the double by 6 points.

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MONASH University

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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Mechatronics engineering

	Bachelor of Mechatronics Engineering (Honours)		Bachelor of Arts		
YEAR 1 Semester 1	ENG1001 Engineering design: Lighter, faster, stronger *or* ENG1002 Engineering design: Cleaner, safer, smarter	ENG1003 Engineering mobile apps *or* ENG1005 Engineering mathematics	Foundation unit *or* ENG1060 Computing for engineers	Arts major	
YEAR 1 Semester 2	ENG1002 Engineering design: Cleaner, safer, smarter *or* ENG1001 Engineering design: Lighter, faster, stronger	ENG1005 Engineering mathematics *or* ENG1003 Engineering mobile apps	Engineering elective *or* ENG1060 Computing for engineers (if not taken in S1)	Arts major	
YEAR 2 Semester 1	ECE2071 Computer organisation and programming	ECE2131 Electrical circuits	Arts minor	Arts major	If two foundation units are required then overload is required for PHS1080 Foundation physics *This unit is replaced by PHS1001 Foundation physics from 2018*
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	TRC2201 Mechanics	Arts minor	Arts major	
YEAR 3 Semester 1	MEC2402 Engineering design 1 *Unit title change in 2021*	TRC3200 Dynamical systems	Arts minor	Arts major	
YEAR 3 Semester 2	TRC2001 Introduction to systems engineering	ECE3161 Analogue electronics	Arts minor	Arts major	
YEAR 4 Semester 1	TRC3500 Sensors and artificial perception	TRC3802 Thermo-fluids and power systems *This unit is re-coded TRC4802 from 2018*	Arts elective	Arts major	
YEAR 4 Semester 2	TRC3600 Modelling and control	TRC3000 Mechatronics project 2	Arts elective	Arts major	
YEAR 5 Semester 1	TRC4000 Mechatronics final year project 1 Replace with ENG4701 from 2021/22	TRC4800 Robotics	MEC4418 Control systems *This unit is not offered in 2019 and is replaced by ECE3141 Information and networks*	Arts elective	
YEAR 5 Semester 2	TRC4001 Mechatronics final year project 2 Replace with ENG4702 from 2022	TRC4902 Mechatronics and manufacturing	TRC4002 Professional practice	Arts elective	

Double degree students requiring two foundation units will need to overload in year 1 or 2 and increase the total credit points needed for the double by 6 points.

All Bachelor of Engineering (Honours) students are required to complete Continuous Professional Development (CPD) in order to graduate. For CPD advice, refer to the CPD webpage

MONASH University

Course progression map for 2017 commencing students

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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Software engineering

	Bachelor of Software Engineering (Honours)		Bachelor of Arts		
YEAR 1 Semester 1	ENG1001 Engineering design: Lighter, faster, stronger *or* ENG1002 Engineering design: Cleaner, safer, smarter	ENG1003 Engineering mobile apps *or* ENG1005 Engineering mathematics	Foundation unit *or* ENG1060 Computing for engineers	Arts major	
YEAR 1 Semester 2	ENG1002 Engineering design: Cleaner, safer, smarter *or* ENG1001 Engineering design: Lighter, faster, stronger	ENG1005 Engineering mathematics *or* ENG1003 Engineering mobile apps	Engineering elective *or* ENG1060 Computing for engineers (if not taken in S1)	Arts major	
YEAR 2 Semester 1	MAT1830 Discrete mathematics for computer science	FIT2085 Introduction to computer science	Arts major	Arts minor	If two foundation units are required then overload is required for PHS1080 Foundation physics *This unit is replaced by PHS1001 Foundation physics from 2018*
YEAR 2 Semester 2	FIT2004 Algorithms and data structures	FIT2101 Software engineering process and management	Arts major	Arts minor	
YEAR 3 Semester 1	FIT2O99 Object oriented design and implementation	FIT3159 Computer architecture	Arts major	Arts elective	
YEAR 3 Semester 2	FIT2107 Software quality and testing	FIT2100 Operating systems	Arts major	Arts elective	
YEAR 4 Semester 1	FIT3170 Software engineering practice (12 points)	FIT3077 Software engineering: architecture and design	Arts major	Arts elective	
YEAR 4 Semester 2		FIT3171 Databases	Arts major	Arts elective	
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	Arts elective	
YEAR 5 Semester 2		Replace with FIT4702 from 2023	Software engineering technical elective at level 4 or 5	Arts elective	

Double degree students requiring two foundation units will need to overload in year 1 or 2 and increase the total credit points needed for the double by 6 points.

Students in the Industry Based Learning placement program will have a different progression map, with their placement in Semester 2 of year 3, and will need to overload in one semester or complete a summer semester unit.

All Bachelor of Engineering (Honours) students are required to complete Continuous Professional Development (CPD) in order to graduate. For CPD advice, refer to the CPD webpage