

# Course progression map for 2018 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**

### Common first year

If no foundation units are required:					
Year	Sem	Units			
1	1	ENG1001 Engineering design: lighter, faster, stronger	ENG1005 Engineering mathematics	ENG1060 Computing for engineers	Arts major
	2	ENG1002 Engineering design: cleaner, safer, smarter	ENG1003 Engineering mobile apps	First year engineering elective unit	Arts major

Tip: You can swap the semester of your engineering elective and your semester 1 Arts unit.

If you need to enrol in foundation physics and maths*:					
1	1	ENG1002 Engineering design: cleaner, safer, smarter	PHS1001 Foundation physics or ENG1003 Engineering mobile apps	ENG1090 Foundation mathematics	Arts major
	2	ENG1001 Engineering design: lighter, faster, stronger	ENG1005 Engineering mathematics	ENG1060 Computing for engineers	Arts major

- Double degree students wanting to complete **Software Engineering** must complete ENG1003 Engineering mobile apps in Year 1 (Semester 1) and PHYS1001 Foundation physics in Year 2 (Semester 1) as an overload, and increase the total credit points needed for the double by 6 points.
- Other double-degree students will need to take the core unit ENG1003 Engineering mobile apps in Year 2 (Semester 1) as an overload. You cannot swap the semesters of any of the units.

If you need to enrol in foundation maths:					
1	1	ENG1002 Engineering design: cleaner, safer, smarter	ENG1003 Engineering mobile apps	ENG1090 Foundation mathematics	Arts major
	2	ENG1001 Engineering design: lighter, faster, stronger	ENG1005 Engineering mathematics	ENG1060 Computing for engineers	Arts major

Tip: You can swap the semester of ENG1003 and your semester 2 Arts unit.

If you need to enrol in foundation physics:					
1	1	ENG1002 Engineering design: cleaner, safer, smarter	ENG1003 Engineering mobile apps	PHS1001 Foundation physics	Arts major
	2	ENG1001 Engineering design: lighter, faster, stronger	ENG1005 Engineering mathematics	ENG1060 Computing for engineers	Arts major

Tip: You can swap the semester of ENG1003 and your semester 2 Arts unit.

#### Note:

All students 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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## **E3002 Bachelor of Engineering (Honours) and Bachelor of Arts**

### **Specialisation - Aerospace engineering**

	Bachelor of Aerospace Engineering (Honours)		Bachelor of Arts		
Year 1 Semester 1	Common first year			Arts major	
Year 1 Semester 2				Arts major	
Year 2 Semester 1	ENG2005 Advanced engineering mathematics	MAE2406 Orbital mechanics and space flight dynamics	Arts minor	Arts major	6 points overload if two foundation units are required
Year 2 Semester 2	MAE2404 Aerodynamics 1	MAE2402 Thermodynamics and heat transfer <small>Unit title change from 2021</small>	Arts minor	Arts major	
Year 3 Semester 1	MAE2401 Aircraft structures 1 <small>Replace with <a href="#">MEC2403</a> from 2023</small>	MAE3401 Aerodynamics 2	Arts minor	Arts major	
Year 3 Semester 2	MAE2405 Aircraft performance	MAE3405 Flight vehicle propulsion <small>Unit title change from 2022</small>	Arts minor	Arts major	
Year 4 Semester 1	MAE3456 Aerospace computational mechanics <small>Replace with <a href="#">MEC3456</a> from 2023</small>	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 <small>Replace with <a href="#">ENG4701</a> from 2021/22.</small>	MAE4404 Aerospace practices <small>Replace with <a href="#">MEC4404</a> from 2023</small>	<a href="#">Level 3 or 4 aerospace engineering technical elective</a>	Arts elective	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2	MEC4402 Final year – thesis <small>Replace with <a href="#">ENG4702</a> from 2022</small>	MAE4410 Flight vehicle design	MAE3411 Aircraft structural mechanics	Arts elective	

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## **E3002 Bachelor of Engineering (Honours) and Bachelor of Arts**

### **Specialisation - Chemical engineering**

	<b>Bachelor of Chemical Engineering (Honours)</b>		<b>Bachelor of Arts</b>	
Year 1 Semester 1	<b>Common first year</b>			Arts major
Year 1 Semester 2				Arts major
Year 2 Semester 1	CHM1011 Chemistry 1 (if not already completed at level 1) or CHM1051 Chemistry 1 Advanced	ENG2005 Advanced engineering mathematics	Arts minor	Arts major
Year 2 Semester 2	CHE2162 Material and energy balances	CHE2161 Mechanics of fluids	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	<b>CHE4164 Integrated industrial project (18 points)</b> For selected students taking a period of integrated industrial training in the first semester of their final year. CHE4164 (18 cp) will be replaced by CHE4164 (6 cp) and CHE4165 (6 cp) from 2022. You must now also complete CHE4161. See footnote.		Arts elective	<b>ENG0001 Continuous Professional Development (0 credit points)</b>
OR				
Year 5 Semester 1	CHE4180 Chemical engineering project Replace with ENG4701 from 2021/22. 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.
- [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.
- Students should not overload in the semester of undertaking CHE4170.
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## **E3002 Bachelor of Engineering (Honours) and Bachelor of Arts**

### **Specialisation - Civil engineering**

	<b>Bachelor of Civil Engineering (Honours)</b>		<b>Bachelor of Arts</b>	
Year 1 Semester 1	<b>Common first year</b>			Arts major
Year 1 Semester 2				Arts major
Year 2 Semester 1	CIV2225 Design of steel and timber structures <small>Replace with CIV2235 from 2021</small>	CIV2206 Mechanics of solids <small>Unit title change in 2019</small>	Arts minor	Arts major
Year 2 Semester 2	ENG2005 Advanced engineering mathematics	CIV2242 Geomechanics 1	Arts minor	Arts major
Year 3 Semester 1	CIV2263 Water systems	CIV2282 transport and traffic engineering	Arts minor	Arts major
Year 3 Semester 2	CIV3221 Building structures and technology	CIV3204 Engineering investigation <small>See footnote</small>	Arts minor	Arts major
Year 4 Semester 1	CIV3248 Groundwater and environmental geomechanics	CIV3285 Engineering hydrology	Arts elective	Arts major
Year 4 Semester 2	CIV3247 Geomechanics 2	CIV3284 Design of concrete and masonry structures <small>Replace with CIV3294 from 2022</small>	Arts elective	Arts major
Year 5 Semester 1	CIV4210 Project A <small>Replace with ENG4701 from 2022. See footnote.</small>	CIV4286 Project management for civil engineers	CIV4280 Bridge design and assessment	Arts elective
Year 5 Semester 2	CIV4287 Road engineering <small>Replace with ENG4702 from 2022. See footnote.</small>	CIV4212 Civil and environmental engineering practice	CIV4288 Water treatment	Arts elective
If two foundation units are required then overload is required for ENG1003 Engineering mobile apps				
ENG0001 Continuous Professional Development (0 credit points)				

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.
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## **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	Common first year			Arts major	
Year 1 Semester 2				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 ENG1003 Engineering mobile apps
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 <small>Replace ECE3121 with ECE3122 in 2024</small>	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 <small>Replace with ECE4191 from 2022. See footnote</small>	<a href="#">Level 4 or 5 ECE-coded core elective</a>	Arts elective	Arts major	
Year 5 Semester 1	ECE4094 Project A <small>Replace with ENG4701 from 2022</small>	ECE3051 Electrical energy systems	<a href="#">Level 4 or 5 ECE-coded core elective</a>	Arts elective	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2	ECE4095 Project B <small>Replace with ENG4702 from 2022</small>	ECE4132 Control system design	ECE4099 Professional practice	Arts elective	

**Note:**

- **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.
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## **E3002 Bachelor of Engineering (Honours) and Bachelor of Arts** **Specialisation - Environmental engineering**

	Bachelor of Environmental Engineering (Honours)		Bachelor of Arts		
Year 1 Semester 1	Common first year			Arts major	
Year 1 Semester 2				Arts major	
Year 2 Semester 1	BTX3100 Sustainability regulation for business <i>See footnote.</i>	ENE2021 Energy and the environment	Arts minor	Arts major	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	Arts minor	Arts major	
Year 3 Semester 1	ENE3031 Building sustainability	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	ENE3032 Fate and transport of contaminants	ENE3606 The air environment	Arts elective	Arts major	
Year 5 Semester 1	CIV4210 Project A <i>Replace with ENG4701 from 2022. See footnote.</i>	CIV4286 Project management for civil engineers	ENE4042 Environment impact and risk assessment	Arts elective	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2	Level 4 environmental engineering technical elective <i>Replace with ENG4702 from 2022. See footnote.</i>	CIV4212 Civil and environmental engineering practice	ENE4041 Soil remediation and solid waste management	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 reserve the level 4 technical elective (the 6 CP elective that counts towards the Part C and D of the course requirement) for the ENG4702 FYP.
- **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.
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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	Common first year			Arts major	
Year 1 Semester 2				Arts major	
Year 2 Semester 1	MTE2541 Crystal structures, thermodynamics and phase equilibria <small>See footnote 1</small>	MTE2544 Functional materials <small>Replace with MTE2202 from 2021 (Semester 2 offering)</small>	Arts minor	Arts major	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
Year 2 Semester 2	ENG2005 Advanced engineering maths	MTE2542 Microstructural development <small>Replace with MTE2102 from 2021 (Semester 1 offering).</small>	Arts minor	Arts major	
Year 3 Semester 1	MTE2546 Mechanics of materials <small>Replace with MTE2103 from 2021.</small>	MTE3541 Materials durability <small>Replace with MTE3103 from 2022</small>	Arts minor	Arts major	
Year 3 Semester 2	MTE2545 Polymers and ceramics 1 <small>See footnote 2</small>	MTE3545 Functional materials and devices <small>Replace with MTE3202 from 2022</small>	Arts minor	Arts major	
Year 4 Semester 1	MTE3543 Microstructure to applications: The mechanics of materials <small>See footnote 3</small>	MTE3542 Microstructural design in structural materials <small>Replace with MTE3102 from 2022.</small>	Arts elective	Arts major	
Year 4 Semester 2	MTE3547 Materials characterisation and modelling <small>See footnote 1</small>	MTE3546 Polymers and ceramics 2 <small>Replace with MTE3203 from 2022. See footnote 2</small>	Arts elective	Arts major	
Year 5 Semester 1	MTE4525 Project 1 <small>Replace with ENG4701 from 2022</small>	MTE4571 Materials engineering design and practice <small>See footnote 3</small>	MTE4572 Polymer and composite processing and engineering <small>See footnote 3</small>	Arts elective	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2	MTE4526 Project 2 <small>Replace with ENG4702 from 2022</small>	MTE4573 Processing and engineering of metals and ceramics <small>See footnote 3</small>	<a href="#">Level 4 or 5 MTE-coded materials engineering core elective</a>	Arts elective	

Note:

1. MTE2101 and MTE3101 replaces MTE2541 and MTE3547 in combination. If you have completed MTE2541 prior to 2021, you must complete MTE3547 (last offering 2021). Otherwise, complete MTE2101 and MTE3101 as a combination.
  2. MTE2201 and MTE3203 replaces MTE2545 and MTE3546 in combination. If you have completed MTE2545 prior to 2021, you must complete MTE3546 (last offering 2021). Otherwise, complete MTE2201 and MTE3203 as a combination.
  3. You must complete the (MTE3543+MTE4571+MTE4572+MTE4573) combination (last offerings 2022). Otherwise, complete (MTE3201+MTE4101+MTE4102+MTE4201) combination.
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## **E3002 Bachelor of Engineering (Honours) and Bachelor of Arts**

### **Specialisation - Mechanical engineering**

	<b>Bachelor of Mechanical Engineering (Honours)</b>		<b>Bachelor of Arts</b>		
Year 1 Semester 1	<b>Common first year</b>			Arts major	
Year 1 Semester 2				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 ENG1003 Engineering mobile apps
Year 2 Semester 2	ENG2005 Advanced engineering mathematics	MEC2404 - Mechanics of fluids	Arts minor	Arts major	
Year 3 Semester 1	MEC2402 Engineering design 1 <small>Unit title change in 2021</small>	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 <small>Unit title change in 2021</small>	MEC3453 Dynamics 2	Arts elective	Arts major	
Year 5 Semester 1	MEC4401 Final year project <small>Replace with ENG4701 from 2022</small>	MEC4408 Thermodynamics and heat transfer	MEC4404 Professional practice	Arts elective	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2	MEC4402 Final year project – Thesis <small>Replace with ENG4702 from 2022</small>	MEC4426 Computer-aided design	MEC4407 Engineering design 3 <small>Unit title change in 2021</small>	Arts elective	

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## **E3002 Bachelor of Engineering (Honours) and Bachelor of Arts**

### **Specialisation - Mechatronics engineering**

	<b>Bachelor of Mechatronics Engineering (Honours)</b>		<b>Bachelor of Arts</b>		
Year 1 Semester 1	<b>Common first year</b>			Arts major	
Year 1 Semester 2				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 ENG1003 Engineering mobile apps
Year 2 Semester 2	ENG2005 Advanced engineering mathematics	TRC2201 Mechanics	Arts minor	Arts major	
Year 3 Semester 1	MEC2402 Engineering design 1 <small>Unit title change in 2021</small>	TRC3200 Dynamical systems	Arts minor	Arts major	
Year 3 Semester 2	TRC2001 Introduction to systems engineering	TRC4802 Thermo-fluids and power systems	Arts minor	Arts major	
Year 4 Semester 1	TRC3500 Sensors and artificial perception	ECE3161 Analogue electronics	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 <small>Replace with ENG4701 from 2022</small>	TRC4800 Robotics	ECE3141 Information and networks	Arts elective	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2	TRC4001 Mechatronics final year project 2 <small>Replace with ENG4702 from 2022</small>	TRC4902 Mechatronics and manufacturing	TRC4002 Professional practice	Arts elective	

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## **E3002 Bachelor of Engineering (Honours) and Bachelor of Arts**

### **Specialisation - Software engineering**

	<b>Bachelor of Software Engineering (Honours)</b>		<b>Bachelor of Arts</b>		
Year 1 Semester 1	<b>Common first year</b>			Arts major	
Year 1 Semester 2				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 ENG1003 Engineering mobile apps
Year 2 Semester 2	FIT2004 Algorithms and data structures	FIT2101 Software engineering process and management	Arts major	Arts minor	
Year 3 Semester 1	FIT2099 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 <small>Replace with <a href="#">FIT4701</a> from 2023</small>	FIT4165 Computer networks	Arts elective	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2		<small>Replace with <a href="#">FIT4702</a> from 2023</small>	<a href="#">Level 4 or 5 software engineering technical elective</a>	Arts elective	

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