

## Course progression map for 2022 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 does not substitute for the list of required units as described in the course 'Requirements' section of the [Handbook](#). Please note that the map is subject to updates. Update version: 18 December 2023

### E3007 Bachelor of Engineering (Honours) and Bachelor of Science

#### Common first year

If no foundation units are required:				
Year 1 Semester 1 February	<a href="#">ENG1014</a> Engineering numerical analysis <i>Required: ENG1005</i>	<a href="#">ENG1005</a> Engineering mathematics <i>Required: ENG1090 *</i>	Science unit	Science unit
Year 1 Semester 2 July	<a href="#">ENG1012</a> Engineering design	<a href="#">ENG1013</a> Engineering smart systems	Science unit	Science unit
Year 2 Semester 1 February	<a href="#">ENG1011</a> Engineering methods	<a href="#">First Year engineering technical elective</a>	Science unit	Science unit
Tip: You can swap the semester of ENG1013 and your Engineering elective unit.				

If you need to enrol in foundation physics and maths*:				
Year 1 Semester 1 February	<a href="#">PHS1001</a> Foundation physics* <i>Corequisite: ENG1090 *</i>	<a href="#">ENG1090</a> Foundation mathematics*	Science unit	Science unit
Year 1 Semester 2 July	<a href="#">ENG1012</a> Engineering design	<a href="#">ENG1005</a> Engineering mathematics	Science unit	Science unit
Year 2 Semester 1 February	<a href="#">ENG1011</a> Engineering methods	<a href="#">ENG1014</a> Engineering numerical analysis <i>Required: ENG1005</i>	Science unit	Science unit
1. If you require two foundation units, you will need to take the remaining core unit ENG1013 Engineering smart systems in semester one of year two as an overload, and increase the total credit points needed for the double by 6 points.				<a href="#">ENG1013</a> Engineering smart systems
Tip: You can swap the semesters of ENG1013 and ENG1005.				

If you need to enrol in foundation maths:				
Year 1 Semester 1 February	<a href="#">ENG1012</a> Engineering design	<a href="#">ENG1090</a> Foundation mathematics*	Science unit	Science unit
Year 1 Semester 2 July	<a href="#">ENG1014</a> Engineering numerical analysis <i>Required: ENG1005</i>	<a href="#">ENG1005</a> Engineering mathematics <i>Required: ENG1090 *</i>	Science unit	Science unit
Year 2 Semester 1 February	<a href="#">ENG1011</a> Engineering methods	<a href="#">ENG1013</a> Engineering smart systems	Science unit	Science unit
Tip: You can swap the semesters of ENG1013 and ENG1005.				

If you need to enrol in foundation physics:				
Year 1 Semester 1 February	<a href="#">ENG1012</a> Engineering design	<a href="#">PHS1001</a> Foundation physics*	Science unit	Science unit
Year 1 Semester 2 July	<a href="#">ENG1014</a> Engineering numerical analysis <i>Required: ENG1005</i>	<a href="#">ENG1005</a> Engineering mathematics <i>Required: ENG1090 *</i>	Science unit	Science unit
Year 2 Semester 1 February	<a href="#">ENG1011</a> Engineering methods	<a href="#">ENG1013</a> Engineering smart systems	Science unit	Science unit
Tip: You can swap the semesters of ENG1013 and ENG1005.				

#### NOTE:

- \* Foundation units: You enrol in the foundation units ENG1090 and/or PHS1001 if you have not completed the Australian VCE (Units 3 & 4) or equivalent Specialist mathematics and/or Physics with [the required study score](#).
- For enrolment advice, please refer to the [Course advisers 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 February	Common first year		Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 1 Semester 2 July			Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 2 Semester 1 February			Level 2 science major unit	SCI1000 Science communication to influence change
				If two foundation units are required then overload is required for <a href="#">ENG1013</a> Engineering smart systems
Year 2 Semester 2 July	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">MAE2402</a> Thermodynamics and gas dynamics	Level 2 science major unit	Level 2 or 3 science elective
Year 3 Semester 1 February	<a href="#">MEC2403</a> Mechanics of materials	<a href="#">MEC2402</a> Design methods	Level 3 science major unit	Science elective
Year 3 Semester 2 July	<a href="#">MAE2404</a> Aerodynamics I	<a href="#">MAE2505</a> Aerospace dynamics	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 1 February	<a href="#">MAE3401</a> Aerodynamics 2	<a href="#">MAE3404</a> Flight vehicle dynamics	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 2 July	<a href="#">MAE3411</a> Aerospace structural mechanics	<a href="#">MAE3405</a> Aerospace propulsion	Level 3 science major unit	Level 2 or 3 science elective
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">MEC4404</a> Professional practice	<a href="#">MAE4416</a> Orbital mechanics and spaceflight dynamics	<a href="#">MEC3456</a> Engineering computational analysis
				<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">MAE4410</a> Flight vehicle design	<a href="#">MAE4426</a> Finite element analysis and composite structures	<a href="#">MAE3408</a> Aerospace control

#### NOTE:

- **MAE2505** - If you have completed MAE2505 as a First Year technical elective, you must replace the core with another unit from the aerospace engineering technical electives list or from one of the [engineering minors](#). The replacement unit must be of the same level as the core unit or higher.
- Engineering minors are not available in the Engineering double degree courses.
- 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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### E3007 Bachelor of Engineering (Honours) and Bachelor of Science Specialisation - Chemical Engineering

	Bachelor of Chemical Engineering (Honours)		Bachelor of Science	
Year 1 Semester 1 February	Common first year		Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 1 Semester 2 July			Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 2 Semester 1 February			Level 2 science major unit	SCI1000 Science communication to influence change
Year 2 Semester 2 July	<a href="#">CHE2161</a> Mechanics of fluids	<a href="#">CHE2163</a> Heat and mass transfer	Level 2 science major unit	Level 2 or 3 science elective
Year 3 Semester 1 February	<a href="#">CHM1011</a> Chemistry 1 or <a href="#">CHM1051</a> Chemistry 1 Advanced	<a href="#">CHE2164</a> Thermodynamics 1	Level 3 science major unit	Science elective
Year 3 Semester 2 July	<a href="#">CHE2162</a> Materials and energy balances	<a href="#">ENG2005</a> Advanced engineering mathematics	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 1 February	<a href="#">CHE3161</a> Chemistry and chemical thermodynamics	<a href="#">CHE3165</a> Separation processes	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 2 July	<a href="#">CHE3166</a> Process design	<a href="#">CHE3164</a> Reaction engineering	Level 3 science major unit	Level 2 or 3 science elective
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">CHE4162</a> Particle technology	<a href="#">CHE4161</a> Engineer in society	<a href="#">CHE3167</a> Transport phenomena and numerical methods
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">CHE4170</a> Design project		<a href="#">CHE3162</a> Process control

#### NOTE:

- **CHM1011 or CHM1051** - If you have completed either unit as a First Year technical elective, you must replace the core with another unit from the chemical engineering technical electives list or from one of the [engineering minors](#). The replacement unit must be of the same level as the core unit or higher.
- [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.
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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 February	Common first year		Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 1 Semester 2 July			Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 2 Semester 1 February			Level 2 science major unit	SCI1000 Science communication to influence change
Year 2 Semester 2 July	<a href="#">ENG2005</a> Advanced engineering mathematics	Science elective	Level 2 science major unit	Level 2 or 3 science elective
Year 3 Semester 1 February	<a href="#">CIV2282</a> Transport and traffic engineering	<a href="#">CIV2263</a> Water systems	<a href="#">CIV2206</a> Structural mechanics	Level 3 science major unit
Year 3 Semester 2 July	<a href="#">CIV2242</a> Geomechanics 1	<a href="#">CIV2235</a> Structural materials	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 1 February	<a href="#">CIV3285</a> Engineering hydrology	<a href="#">CIV3294</a> Structural design	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 2 July	<a href="#">CIV3247</a> Geomechanics 2	<a href="#">CIV3221</a> Building structures and technology	Level 3 science major unit	Level 2 or 3 science elective
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">CIV4249</a> Foundation engineering	<a href="#">CIV4286</a> Project management for civil engineers	<a href="#">CIV4280</a> Bridge design and assessment
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">CIV3283</a> Road engineering	<a href="#">CIV4212</a> Civil and environmental engineering practice	<a href="#">CIV4288</a> Water treatment

#### NOTE:

- Engineering minors are not available in the Engineering double degree courses.
- 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 - Electrical and Computer Systems Engineering

	Bachelor of Electrical and Computer Systems Engineering (Honours)		Bachelor of Science	
Year 1 Semester 1 February	Common first year		Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 1 Semester 2 July			Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 2 Semester 1 February			Level 2 science major unit	SC1000 Science communication to influence change
Year 2 Semester 2 July	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">ECE2072</a> Digital systems	Level 2 science major unit	Level 2 or 3 science elective
Year 3 Semester 1 February	<a href="#">ECE2071</a> Computer organisation and programming	<a href="#">ECE2131</a> Electrical circuits	Level 3 science major unit	Science elective
Year 3 Semester 2 July	<a href="#">ECE2111</a> Signals and systems	<a href="#">ECE2191</a> Probability models in engineering	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 1 February	<a href="#">ECE3073</a> Computer systems	<a href="#">ECE3141</a> Information and networks	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 2 July	<a href="#">ECE3121</a> Engineering electromagnetics <small>Replace ECE3121 with <a href="#">ECE3122</a> in 2024</small>	<a href="#">ECE4132</a> Control system design	Level 3 science major unit	Level 2 or 3 science elective
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">ECE3161</a> Analogue electronics	<a href="#">ECE3051</a> Electrical energy systems	<a href="#">Level 4 or 5 ECE-coded core elective</a>
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">ECE4191</a> Engineering integrated design	<a href="#">Level 4 or 5 ECE-coded core elective</a>	<a href="#">ECE4099</a> Professional Practice

#### NOTE:

- **ECE2071 or ECE2072** - If you have completed either unit as a First Year elective, you must replace the core with another unit from the electrical and computer systems engineering technical electives list or from one of the [engineering minors](#). The replacement unit must be of the same level as the core unit or higher.
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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 February	Common first year		Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 1 Semester 2 July			Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 2 Semester 1 February			Level 2 science major unit	SCI1000 Science communication to influence change
Year 2 Semester 2 July	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">CHE2162</a> Material and energy balances	Level 2 science major unit	Level 2 or 3 science elective
Year 3 Semester 1 February	<a href="#">ENE2021</a> Energy and the environment	<a href="#">CIV2263</a> Water systems	Level 3 science major unit	Science elective
Year 3 Semester 2 July	<a href="#">CHE2164</a> Thermodynamics 1	<a href="#">ENE2503</a> Materials properties and recycling	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 1 February	<a href="#">CIV3248</a> Groundwater and environmental geomechanics	<a href="#">ENE3031</a> Building sustainability	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 2 July	<a href="#">ENE3606</a> The air environment	<a href="#">ENE3032</a> Fate and transport of contaminants	Level 3 science major unit	Level 2 or 3 science elective
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">BTX3100</a> - Sustainability regulation for business	<a href="#">CIV3285</a> Engineering hydrology	<a href="#">ENE4042</a> Environment impact and risk assessment
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">CIV4286</a> Project management for civil engineers	<a href="#">CIV4212</a> Civil and environmental engineering practice	<a href="#">ENE4041</a> Soil remediation and solid waste management

#### NOTE:

- Engineering minors are not available in the Engineering double degree courses.
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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 February	Common first year		Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 1 Semester 2 July			Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 2 Semester 1 February			Level 2 science major unit	SCI1000 Science communication to influence change
Year 2 Semester 2 July	<a href="#">MTE2201</a> Polymers	<a href="#">ENG2005</a> Advanced engineering mathematics	Level 2 science major unit	Level 2 or 3 science elective
Year 3 Semester 1 February	<a href="#">MTE2101</a> Atomic-scale structure of materials	<a href="#">MTE2102</a> Phase equilibria and phase transformations	<a href="#">MTE2103</a> Mechanical properties of materials	Level 2 or 3 science elective
Year 3 Semester 2 July	<a href="#">MTE2202</a> Functional materials 1	<a href="#">MTE3203</a> Introduction to ceramics: Properties, processing and applications	Level 3 science major unit	Level 3 science major unit
Year 4 Semester 1 February	<a href="#">MTE3101</a> Materials in a complex world 1: People, projects and data	<a href="#">MTE3103</a> Materials life cycle	<a href="#">MTE3102</a> Plasticity of metals and alloys	Level 2 or 3 science elective
Year 4 Semester 2 July	<a href="#">MTE3201</a> Materials in a complex world 2: Characterisation, identification and selection	<a href="#">MTE3202</a> Functional materials 2	Science elective	Level 2 or 3 science elective
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">MTE4101</a> Integrated design project	<a href="#">MTE4102</a> Advanced materials processing and manufacturing	Level 3 science major unit
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">MTE4201</a> Materials in a complex world 3: Impact in society	<a href="#">Level 4 or 5 MTE-coded materials engineering core elective</a>	Level 3 science major unit

#### NOTE:

- Engineering minors are not available in the Engineering double degree courses.
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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 February	Common first year		Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 1 Semester 2 July			Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 2 Semester 1 February			Level 2 science major unit	SCI1000 Science communication to influence change
Year 2 Semester 2 July	<a href="#">ENG2005</a> Advanced engineering mathematics	Science elective	Level 2 science major unit	Level 2 or 3 science elective
Year 3 Semester 1 February	<a href="#">MEC2402</a> Design methods	<a href="#">MEC2403</a> Mechanics of materials	<a href="#">MEC2401</a> Dynamics I	Level 3 science major unit
Year 3 Semester 2 July	<a href="#">MEC2404</a> Mechanics of fluids	<a href="#">MEC2405</a> Thermodynamics	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 1 February	<a href="#">MEC3455</a> Solid Mechanics	<a href="#">MEC3456</a> Engineering computational analysis	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 2 July	<a href="#">MEC3416</a> Machine design	<a href="#">MEC3457</a> Systems and control	Level 3 science major unit	Level 2 or 3 science elective
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">MEC4408</a> Thermodynamics and heat transfer	<a href="#">MEC3451</a> Fluid Mechanics 2	<a href="#">MEC4404</a> Professional practice
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">MEC4426</a> Computer-aided design	<a href="#">MEC3453</a> Dynamics 2	<a href="#">MEC4407</a> Design project

#### NOTE:

- **MEC2404** - If you have completed MEC2404 as a First Year elective, you must replace the core with another unit from the mechanical engineering technical electives list or from one of the [engineering minors](#). The replacement unit must be of the same level as the core unit or higher.
- Engineering minors are not available in the Engineering double degree courses.
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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 February	Common first year		Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 1 Semester 2 July			Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 2 Semester 1 February			Level 2 science major unit	SCI1000 Science communication to influence change
Year 2 Semester 2 July	<a href="#">ENG2005</a> Advanced engineering mathematics	Science elective	Level 2 science major unit	Level 2 or 3 science elective
Year 3 Semester 1 February	<a href="#">ECE2071</a> Computer organisation and programming	<a href="#">MEC2402</a> Design methods	<a href="#">ECE2131</a> Electrical circuits	Level 3 science major unit
Year 3 Semester 2 July	<a href="#">TRC2201</a> Mechanics	<a href="#">ECE2072</a> Digital systems	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 1 February	<a href="#">TRC3500</a> Sensors and artificial perception	<a href="#">TRC3200</a> Dynamical systems	Level 3 science major unit	Level 2 or 3 science elective
Year 4 Semester 2 July	<a href="#">TRC3600</a> Modelling and control	<a href="#">TRC4002</a> Professional practice	Level 3 science major unit	Level 2 or 3 science elective
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">TRC4800</a> Robotics	<a href="#">ECE3161</a> Analogue electronics	<a href="#">ECE4076</a> Computer vision
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">ECE4078</a> Intelligent robotics	<a href="#">ECE4179</a> Neural networks and deep learning	<a href="#">ECE4191</a> Engineering integrated design

#### NOTE:

- **ECE2071 or ECE2072** - If you have completed either unit as a First Year technical elective, you must replace the core with another unit from the robotics and mechatronics engineering technical electives list or from one of the [engineering minors](#). The replacement unit must be of the same level as the core unit or higher.
- Engineering minors are not available in the Engineering double degree courses.
- 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 – Robotics and Mechatronics Engineering – *Automation stream*

	Bachelor of Robotics and Mechatronics Engineering (Honours)		Bachelor of Science		
Year 1 Semester 1 February	Common first year		Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
Year 1 Semester 2 July			Level 1 approved science major sequence 1	Level 1 approved science sequence 2	
Year 2 Semester 1 February			Level 2 science major unit	SCI1000 Science communication to influence change	If two foundation units are required then overload is required for <a href="#">ENG1013</a> Engineering smart systems
Year 2 Semester 2 July	<a href="#">ENG2005</a> Advanced engineering mathematics	Science elective	Level 2 science major unit	Level 2 or 3 science elective	
Year 3 Semester 1 February	<a href="#">ECE2071</a> Computer organisation and programming	<a href="#">MEC2402</a> Design methods	<a href="#">ECE2131</a> Electrical circuits	Level 3 science major unit	
Year 3 Semester 2 July	<a href="#">TRC2201</a> Mechanics	<a href="#">ECE2072</a> Digital systems	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 1 February	<a href="#">TRC3500</a> Sensors and artificial perception	<a href="#">TRC3200</a> Dynamical systems	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 2 July	<a href="#">TRC3600</a> Modelling and control	<a href="#">TRC4902</a> Mechatronics and manufacturing	Level 3 science major unit	Level 2 or 3 science elective	
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">TRC4800</a> Robotics	<a href="#">ECE3161</a> Analogue electronics	<a href="#">TRC4200</a> Engineering cyber-physical systems	<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">TRC4407</a> Automation design project	<a href="#">TRC4802</a> Thermo-fluids and power systems	<a href="#">TRC4002</a> Professional practice	

#### NOTE:

- **ECE2071 or ECE2072** - If you have completed either unit as a First Year technical elective, you must replace the core with another unit from the robotics and mechatronics engineering technical electives list or from one of the [engineering minors](#). The replacement unit must be of the same level as the core unit or higher.
- Engineering minors are not available in the Engineering double degree courses.
- 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 - Software Engineering

	Bachelor of Software Engineering (Honours)		Bachelor of Science	
Year 1 Semester 1 February	Common first year		Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 1 Semester 2 July			Level 1 approved science major sequence 1	Level 1 approved science sequence 2
Year 2 Semester 1 February			Level 2 science major unit	SCI1000 Science communication to influence change
Year 2 Semester 2 July	<a href="#">FIT2085</a> Introduction to computer science	<a href="#">FIT2101</a> Software engineering process and management	Level 2 science major unit	Level 2 or 3 science elective
Year 3 Semester 1 February	<a href="#">MAT1830</a> Discrete mathematics for computer science	<a href="#">FIT2099</a> Object-oriented design and implementation	<a href="#">FIT2004</a> Algorithms and data structures	Level 3 science major unit
Year 3 Semester 2 July	<a href="#">FIT2107</a> Software quality and testing	<a href="#">FIT2100</a> Operating systems	Level 2 or 3 science elective	Level 3 science major unit
Year 4 Semester 1 February	<a href="#">FIT3170</a> Software engineering practice	<a href="#">FIT3077</a> Software engineering: architecture and design	<a href="#">FIT3159</a> Computer architecture	Level 3 science major unit
Year 4 Semester 2 July		<a href="#">FIT3171</a> Databases	Science elective	Level 3 science major unit
Year 5 Semester 1 February	<a href="#">FIT4002</a> Software engineering industry experience studio project	<a href="#">FIT4003</a> Software engineering research project Replace with <a href="#">FIT4701</a> from 2023	<a href="#">FIT4165</a> Computer networks	Level 2 or 3 science elective
Year 5 Semester 2 July		Replace with <a href="#">FIT4702</a> from 2023	<a href="#">Level 4 or 5 software engineering core elective</a>	Level 2 or 3 science elective

#### NOTE:

- **MAT1830 or FIT2085** - If you have completed either unit as a First Year technical elective, you must replace the core with another unit from the software engineering technical electives list. The replacement unit must be of the same level as the core unit or higher.
- Engineering minors are not available in the Engineering double degree courses.
- 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](#).