

Course progression map for 2023 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

You do not have VCE Units 3 & 4 Specialist Maths >30 study score <u>and</u> VCE Units 3 & 4 Physics >25 study score: You must enrol in Foundation mathematics (ENG1090) <u>and</u> Foundation physics (PHS1001)				
Year 1 Semester 1 February	PHS1001 Foundation physics* <i>Corequisite: ENG1090 *</i>	ENG1090 Foundation mathematics*	Science unit	Science unit
Year 1 Semester 2 July	ENG1013 Engineering smart systems	ENG1005 Engineering mathematics	Science unit	Science unit
Year 2 Semester 1 February	ENG1011 Engineering methods	ENG1014 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. Tip: You can swap the semesters of ENG1013 and ENG1005.				

You do not have VCE Units 3 & 4 Specialist Maths >30 study score: You must enrol in Foundation mathematics (ENG1090)				
Year 1 Semester 1 February	ENG1013 Engineering smart systems	ENG1090 Foundation mathematics*	Science unit	Science unit
Year 1 Semester 2 July	ENG1014 Engineering numerical analysis <i>Required: ENG1005</i>	ENG1005 Engineering mathematics <i>Required: ENG1090 *</i>	Science unit	Science unit
Year 2 Semester 1 February	ENG1011 Engineering methods	ENG1012 Engineering design	Science unit	Science unit
Tip: You can swap the semesters of ENG1013 and ENG1005.				

You do not have VCE Units 3 & 4 Physics >25 study score: You must enrol in Foundation physics (PHS1001)				
Year 1 Semester 1 February	ENG1013 Engineering smart systems	PHS1001 Foundation physics*	Science unit	Science unit
Year 1 Semester 2 July	ENG1011 Engineering methods	ENG1005 Engineering mathematics <i>Required: ENG1090 *</i>	Science unit	Science unit
Year 2 Semester 1 February	ENG1014 Engineering numerical analysis <i>Required: ENG1005</i>	ENG1012 Engineering design	Science unit	Science unit
Tip: You can swap the semesters of ENG1013 and ENG1005.				

You have completed VCE Units 3 & 4 Physics >25 study score <u>and</u> VCE Units 3 and 4 Specialist Maths >30 study score: No foundation units are required				
Year 1 Semester 1 February	ENG1014 Engineering numerical analysis <i>Required: ENG1005</i>	ENG1005 Engineering mathematics <i>Required: ENG1090 *</i>	Science unit	Science unit
Year 1 Semester 2 July	ENG1012 Engineering design	ENG1013 Engineering smart systems	Science unit	Science unit
Year 2 Semester 1 February	ENG1011 Engineering methods	First Year engineering technical elective	Science unit	Science unit
Tip: You can swap the semester of ENG1013 and your Engineering elective unit.				

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](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
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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 ENG1013 Engineering smart systems
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	MAE2402 Thermodynamics and gas dynamics	Level 2 science major unit	Level 2 or 3 science elective	
Year 3 Semester 1 February	MEC2403 Mechanics of materials	MEC2402 Design methods	Level 3 science major unit	Science elective	
Year 3 Semester 2 July	MAE2404 Aerodynamics I	MAE2505 Aerospace dynamics	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 1 February	MAE3401 Aerodynamics 2	MAE3404 Flight vehicle dynamics	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 2 July	MAE3411 Aerospace structural mechanics	MAE3405 Aerospace propulsion	Level 3 science major unit	Level 2 or 3 science elective	
Year 5 Semester 1 February	ENG4701 Final year project A	MEC4404 Professional practice	MAE4416 Orbital mechanics and spaceflight dynamics	MAE3456 Aerospace computational mechanics	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	MAE4410 Flight vehicle design	MAE4426 Finite element analysis and composite structures	MAE3408 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](#).
 - Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
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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	If two foundation units are required then overload is required for ENG1013 Engineering smart systems
Year 2 Semester 2 July	CHE2161 Mechanics of fluids	CHE2163 Heat and mass transfer	Level 2 science major unit	Level 2 or 3 science elective	
Year 3 Semester 1 February	CHM1011 Chemistry 1 (if not already completed at level 1) or CHM1051 Chemistry 1 Advanced	CHE2164 Thermodynamics 1	Level 3 science major unit	Science elective	
Year 3 Semester 2 July	CHE2162 Materials and energy balances	ENG2005 Advanced engineering mathematics	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 1 February	CHE3161 Chemistry and chemical thermodynamics	CHE3165 Separation processes	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 2 July	CHE3166 Process design	CHE3164 Reaction engineering	Level 3 science major unit	Level 2 or 3 science elective	
Year 5 Semester 1 February	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 July	ENG4702 Final year project B	CHE4170 Design project		CHE3162 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.
- 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](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
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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	If two foundation units are required then overload is required for ENG1013 Engineering smart systems
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	Science elective	Level 2 science major unit	Level 2 or 3 science elective	
Year 3 Semester 1 February	CIV2282 Transport and traffic engineering	CIV2263 Water systems	CIV2206 Structural mechanics	Level 3 science major unit	
Year 3 Semester 2 July	CIV2242 Geomechanics 1	CIV2235 Structural materials	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 1 February	CIV3285 Engineering hydrology	CIV3294 Structural design	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 2 July	CIV3247 Geomechanics 2	CIV3221 Building structures and technology	Level 3 science major unit	Level 2 or 3 science elective	
Year 5 Semester 1 February	ENG4701 Final year project A	CIV4249 Foundation engineering	CIV4286 Project management for civil engineers	CIV4280 Bridge design and assessment	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	CIV3283 Road engineering	CIV4212 Civil and environmental engineering practice	CIV4288 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](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
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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	SCI1000 Science communication to influence change	If two foundation units are required then overload is required for ENG1013 Engineering smart systems
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	ECE2072 Digital systems	Level 2 science major unit	Level 2 or 3 science elective	
Year 3 Semester 1 February	ECE2071 Computer organisation and programming	ECE2131 Electrical circuits	Level 3 science major unit	Science elective	
Year 3 Semester 2 July	ECE2111 Signals and systems	ECE2191 Probability models in engineering	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 1 February	ECE3073 Computer systems	ECE3141 Information and networks	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 2 July	ECE3121 Engineering electromagnetics <small>Replace ECE3121 with ECE3122 in 2024</small>	ECE4132 Control system design	Level 3 science major unit	Level 2 or 3 science elective	
Year 5 Semester 1 February	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 July	ENG4702 Final year project B	ECE4191 Engineering integrated design	Level 4 or 5 ECE-coded core elective	ECE4099 Professional Practice	

NOTE:

- [ECE2072](#) - If you have completed the 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.
- 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](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
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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	If two foundation units are required then overload is required for ENG1013 Engineering smart systems
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	CHE2162 Material and energy balances	Level 2 science major unit	Level 2 or 3 science elective	
Year 3 Semester 1 February	ENE2021 Energy and the environment	CIV2263 Water systems	Level 3 science major unit	Science elective	
Year 3 Semester 2 July	CHE2164 Thermodynamics 1	ENE2503 Materials properties and recycling	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 1 February	CIV3248 Groundwater and environmental geomechanics	ENE3031 Building sustainability	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 2 July	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 February	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 July	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:

- 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](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
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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	If two foundation units are required then overload is required for ENG1013 Engineering smart systems
Year 2 Semester 2 July	MTE2201 Polymers	ENG2005 Advanced engineering mathematics	Level 2 science major unit	Level 2 or 3 science elective	
Year 3 Semester 1 February	MTE2101 Atomic-scale structure of materials	MTE2102 Phase equilibria and phase transformations	MTE2103 Mechanical properties of materials	Level 2 or 3 science elective	
Year 3 Semester 2 July	MTE2202 Functional materials 1	MTE3203 Introduction to ceramics: Properties, processing and applications	Level 3 science major unit	Level 3 science major unit	
Year 4 Semester 1 February	MTE3101 Materials in a complex world 1: People, projects and data	MTE3103 Materials life cycle	MTE3102 Plasticity of metals and alloys	Level 2 or 3 science elective	
Year 4 Semester 2 July	MTE3201 Materials in a complex world 2: Characterisation, identification and selection	MTE3202 Functional materials 2	Science elective	Level 2 or 3 science elective	
Year 5 Semester 1 February	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 July	ENG4702 Final year project B	MTE4201 Materials in a complex world 3: Impact in society	Level 4 or 5 MTE-coded materials engineering technical elective	Level 3 science major unit	

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](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
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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	If two foundation units are required then overload is required for ENG1013 Engineering smart systems
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	Science elective	Level 2 science major unit	Level 2 or 3 science elective	
Year 3 Semester 1 February	MEC2402 Design methods	MEC2403 Mechanics of materials	MEC2401 Dynamics I	Level 3 science major unit	
Year 3 Semester 2 July	MEC2404 Mechanics of fluids	MEC2405 Thermodynamics	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 1 February	MEC3455 Solid Mechanics	MEC3456 Engineering computational analysis	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 2 July	MEC3416 Machine design	MEC3457 Systems and control	Level 3 science major unit	Level 2 or 3 science elective	
Year 5 Semester 1 February	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 July	ENG4702 Final year project B	MEC4426 Computer-aided design	MEC3453 Dynamics 2	MEC4407 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.
- 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](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
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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	If two foundation units are required then overload is required for ENG1013 Engineering smart systems
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	Science elective	Level 2 science major unit	Level 2 or 3 science elective	
Year 3 Semester 1 February	ECE2071 Computer organisation and programming	MEC2402 Design methods	ECE2131 Electrical circuits	Level 3 science major unit	
Year 3 Semester 2 July	TRC2201 Mechanics	ECE2072 Digital systems	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 1 February	TRC3500 Sensors and artificial perception	TRC3200 Dynamical systems	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 2 July	TRC3600 Modelling and control	TRC4002 Professional practice	Level 3 science major unit	Level 2 or 3 science elective	
Year 5 Semester 1 February	ENG4701 Final year project A	TRC4800 Robotics	ECE3161 Analogue electronics	ECE4076 Computer vision	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	ECE4078 Intelligent robotics	ECE4179 Neural networks and deep learning	ECE4191 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](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
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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 ENG1013 Engineering smart systems
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	Science elective	Level 2 science major unit	Level 2 or 3 science elective	
Year 3 Semester 1 February	ECE2071 Computer organisation and programming	MEC2402 Design methods	ECE2131 Electrical circuits	Level 3 science major unit	
Year 3 Semester 2 July	TRC2201 Mechanics	ECE2072 Digital systems	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 1 February	TRC3500 Sensors and artificial perception	TRC3200 Dynamical systems	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 2 July	TRC3600 Modelling and control	TRC4902 Mechatronics and manufacturing	Level 3 science major unit	Level 2 or 3 science elective	
Year 5 Semester 1 February	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 July	ENG4702 Final year project B	TRC4407 Automation design project	TRC4802 Thermo-fluids and power systems	TRC4002 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](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
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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	If two foundation units are required then overload is required for ENG1013 Engineering smart systems
Year 2 Semester 2 July	FIT2085 Introduction to computer science	FIT2101 Software engineering process and management	Level 2 science major unit	Level 2 or 3 science elective	
Year 3 Semester 1 February	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 July	FIT2107 Software quality and testing	FIT2100 Operating systems	Level 2 or 3 science elective	Level 3 science major unit	
Year 4 Semester 1 February	FIT3170 Software engineering practice (12 credit points)	FIT3077 Software engineering: architecture and design	FIT3159 Computer architecture	Level 3 science major unit	
Year 4 Semester 2 July		FIT3171 Databases	Science elective	Level 3 science major unit	
Year 5 Semester 1 February	FIT4002 Software engineering industry experience studio project (12 credit points)	FIT4701 Final year project A	FIT4165 Computer networks	Level 2 or 3 science elective	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July		FIT4702 Final year project B	Level 4 or 5 software engineering core elective	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 at 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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