Course progression map for 2025 commencing students

This progression map provides advice on the optimal sequencing of units and guidance on planning unit enrolment for each semester of study in conjunction with the required units outlined in the course 'Requirements' section of the Handbook. Please note that the map may be updated to reflect changes to course requirements. Be sure to review it for the latest information before re-enrolling. *Last updated: 12 October 2025*

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 and VCE Units 3 & 4 Physics >25 study score: You must enrol in Foundation mathematics (ENG1090) and Foundation physics (PHS1001)					
Year 1 Semester 1 February	PHS1001 Foundation physics* *Corequisite: ENG1090 **	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 *Required: ENG1005*	Science unit	Science unit	If two foundation units are required, you must overload to complete ENG1012 Engineering design
If you require two foundation units, you will need to take the remaining core unit ENG1012 Engineering design in Year 2 (Semester 1) as an overload. This increases the total credit points needed for the double degree by 6 points. You cannot swap the semesters of any of the units.					

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	ENG1012 Engineering design	ENG1090 Foundation mathematics*	Science unit	Science unit
Year 1 Semester 2 July	ENG1013 Engineering smart systems	ENG1005 Engineering mathematics *Required: ENG1090 **	Science unit	Science unit
Year 2 Semester 1 February	ENG1011 Engineering methods	ENG1014 Engineering numerical analysis *Required: ENG1005*	Science unit	Science unit

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

You have completed VCE Units 3 & 4 Physics >25 study score and VCE Units 3 and 4 Specialist Maths >30 study score: No foundation units are required				
Year 1 Semester 1 February	ENG1014 Engineering numerical analysis *Required: ENG1005*	ENG1005 Engineering mathematics *Required: ENG1090 **	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 breadth study	Science unit	Science unit

NOTE:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- * 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.
- For enrolment advice, please refer to the Course advisers webpage.

Course progression map for 2025 commencing students

This progression map provides advice on the optimal sequencing of units and guidance on planning unit enrolment for each semester of study in conjunction with the required units outlined in the course 'Requirements' section of the Handbook. Please note that the map may be updated to reflect changes to course requirements. Be sure to review it for the latest information before re-enrolling. *Last updated: 12 October 2025*

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, you must overload to complete ENG1012 Engineering design
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	MMA2003 Thermofluids 1 Replacing combined MAE2402, MAE2404	Level 2 science major unit	Level 1 science elective	
Year 3 Semester 1 February	MMA2002 Solid mechanics 1 Replacing MEC2403	MAE3001 Aero and gas dynamics Replacing combined MAE2402, MAE2404	Level 3 science major unit	Level 2 or 3 science elective	
Year 3 Semester 2 July	MMA2005 Modelling and control Replacing MAE3408	MMA2004 Dynamics 1 Replacing MAE2505	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 1 February	MMA2001 Design 1 Replacing MEC2402	MAE3002 Aerospace dynamics 2 Replacing MAE3404	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	Complete one Professional Practice domain unit	MAE4416 Orbital mechanics and spaceflight dynamics	MAE3401 Aerodynamics 2	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	MAE4410 Flight vehicle design	MMA4001 Finite element analysis Replacing MAE4426	MMA3001 Numerical methods and machine learning	

NOTE:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- **MAE2505** - If you have completed this unit as a First Year breadth study unit, it will count towards your aerospace engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study 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.
- For enrolment advice, please refer to the Course advisers webpage.

Course progression map for 2025 commencing students

This progression map provides advice on the optimal sequencing of units and guidance on planning unit enrolment for each semester of study in conjunction with the required units outlined in the course 'Requirements' section of the Handbook. Please note that the map may be updated to reflect changes to course requirements. Be sure to review it for the latest information before re-enrolling. *Last updated: 12 October 2025*

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, you must overload to complete ENG1012 Engineering design
Year 2 Semester 2 July	CHE2161 Mechanics of fluids	CHE2163 Heat and mass transfer	Level 2 science major unit	Level 1 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	Level 2 or 3 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	Complete one Professional Practice domain unit	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:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- **CHM1011, CHM1051, CHE2161** - If you have completed one of these units as a First Year breadth study unit, it will count towards your chemical engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study unit.
- 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.
- For enrolment advice, please refer to the Course advisers webpage.

Course progression map for 2025 commencing students

This progression map provides advice on the optimal sequencing of units and guidance on planning unit enrolment for each semester of study in conjunction with the required units outlined in the course 'Requirements' section of the Handbook. Please note that the map may be updated to reflect changes to course requirements. Be sure to review it for the latest information before re-enrolling. *Last updated: 12 October 2025*

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, you must overload to complete ENG1012 Engineering design
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	Level 1 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	Complete one Professional Practice domain unit	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:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- 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.
- For enrolment advice, please refer to the Course advisers webpage.

Course progression map for 2025 commencing students

This progression map provides advice on the optimal sequencing of units and guidance on planning unit enrolment for each semester of study in conjunction with the required units outlined in the course 'Requirements' section of the Handbook. Please note that the map may be updated to reflect changes to course requirements. Be sure to review it for the latest information before re-enrolling. *Last updated: 12 October 2025*

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, you must overload to complete ENG1012 Engineering design
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	ECE2191 Probability and AI for engineers	Level 2 science major unit	Level 1 science elective	
Year 3 Semester 1 February	ECE2071 Systems programming	ECE2131 Electrical circuits	Level 3 science major unit	Level 2 or 3 science elective	
Year 3 Semester 2 July	ECE2072 Digital systems	ECE2111 Signals and systems	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 1 February	ECE3051 Electrical energy systems	ECE3073 Computer systems	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 2 July	ECE3121 Engineering electromagnetics	ECE3161 Analogue electronics	Level 3 science major unit	Level 2 or 3 science elective	
Year 5 Semester 1 February	ENG4701 Final year project A	ECE3141 Information and networks	Complete one Professional Practice domain unit	Core List A elective	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	ECE4191 Engineering integrated design	ECE4132 Control system design	Core List A or B elective	

NOTE:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- **ECE2072** - If you have completed this unit as a First Year breadth study unit, it will count towards your ECSE engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study 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.
- For enrolment advice, please refer to the Course advisers webpage.

Course progression map for 2025 commencing students

This progression map provides advice on the optimal sequencing of units and guidance on planning unit enrolment for each semester of study in conjunction with the required units outlined in the course 'Requirements' section of the Handbook. Please note that the map may be updated to reflect changes to course requirements. Be sure to review it for the latest information before re-enrolling. *Last updated: 12 October 2025*

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, you must overload to complete ENG1012 Engineering design
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	ENE2268 Hydrology and climate change	Level 2 science major unit	Level 1 science elective	
Year 3 Semester 1 February	ENE2021 Energy and the environment	CIV2263 Water systems	Level 3 science major unit	Level 2 or 3 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	ENE4043 Quantifying sustainability in urban systems	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	Complete one Professional Practice domain unit	CIV4212 Civil and environmental engineering practice	ENE4041 Soil remediation and solid waste management	

NOTE:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- 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.
- For enrolment advice, please refer to the Course advisers webpage.

Course progression map for 2025 commencing students

This progression map provides advice on the optimal sequencing of units and guidance on planning unit enrolment for each semester of study in conjunction with the required units outlined in the course 'Requirements' section of the Handbook. Please note that the map may be updated to reflect changes to course requirements. Be sure to review it for the latest information before re-enrolling. *Last updated: 12 October 2025*

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, you must overload to complete ENG1012 Engineering design
Year 2 Semester 2 July	MTE2201 Plastics and the planet: Health, impact and sustainability	ENG2005 Advanced engineering mathematics	Level 2 science major unit	Level 1 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	MTE2204 Materials in a complex world 1: People, projects and data	MTE3203 Introduction to ceramics: Properties, processing and applications	Level 3 science major unit	Level 3 science major unit	
Year 4 Semester 1 February	MTE3104 Electronic and photonic materials	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 Magnetic and spintronic materials	Level 2 or 3 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	Complete one Professional Practice domain unit	Level 4 or 5 MTE-coded materials engineering technical elective	Level 3 science major unit	

NOTE:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- 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.
- For enrolment advice, please refer to the Course advisers webpage.

Course progression map for 2025 commencing students

This progression map provides advice on the optimal sequencing of units and guidance on planning unit enrolment for each semester of study in conjunction with the required units outlined in the course 'Requirements' section of the Handbook. Please note that the map may be updated to reflect changes to course requirements. Be sure to review it for the latest information before re-enrolling. *Last updated: 12 October 2025*

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, you must overload to complete ENG1012 Engineering design
Year 2 Semester 2 July	MMA2004 Dynamics 1 Replacing MEC2401	Level 1 science elective	Level 2 science major unit	Level 2 or 3 science elective	
Year 3 Semester 1 February	MMA2001 Design 1 Replacing MEC2402	MMA2002 Solid mechanics 1 Replacing MEC2403	ENG2005 Advanced engineering mathematics	Level 3 science major unit	
Year 3 Semester 2 July	MMA2003 Thermofluids 1 Replacing combined MEC2404, MEC2405	MMA3001 Numerical methods and machine learning Replacing MEC3456	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 1 February	MEC3455 Solid mechanics 2	MEC3001 Material properties and selection	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 2 July	MEC3416 Mechanical design 2	MMA2005 Modelling and control Replacing MEC3457	Level 3 science major unit	Level 2 or 3 science elective	
Year 5 Semester 1 February	ENG4701 Final year project A	MEC4408 Thermodynamics 2 and heat transfer	MEC3451 Fluid mechanics 2	Complete one Professional Practice domain unit	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	MMA4001 Finite element analysis Replacing MEC4426	MEC3453 Mechanical dynamics 2	MEC4407 Mechanical design 3	

NOTE:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- **MEC2404** - If you have completed this unit as a First Year breadth study unit, it will count towards your mechanical engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study 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.
- For enrolment advice, please refer to the Course advisers webpage.

Course progression map for 2025 commencing students

This progression map provides advice on the optimal sequencing of units and guidance on planning unit enrolment for each semester of study in conjunction with the required units outlined in the course 'Requirements' section of the Handbook. Please note that the map may be updated to reflect changes to course requirements. Be sure to review it for the latest information before re-enrolling. *Last updated: 12 October 2025*

E3007 Bachelor of Engineering (Honours) and Bachelor of Science

Specialisation – Robotics and Mechatronics Engineering

	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, you must overload to complete ENG1012 Engineering design
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	Level 1 science elective	Level 2 science major unit	Level 2 or 3 science elective	
Year 3 Semester 1 February	ECE2071 Systems programming	MMA2001 Design 1 Replacing MEC2402	ECE2131 Electrical circuits	Level 3 science major unit	
Year 3 Semester 2 July	MMA2004 Dynamics 1 Replacing TRC2201	ECE2072 Digital systems	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 1 February	TRC3500 Sensors and artificial perception	ECE3073 Computer systems	Level 3 science major unit	Level 2 or 3 science elective	
Year 4 Semester 2 July	MMA2005 Modelling and control Replacing TRC3600	MMA2003 Thermofluids 1 Replacing TRC4802	Level 3 science major unit	Level 2 or 3 science elective	
Year 5 Semester 1 February	ENG4701 Final year project A	TRC3200 Dynamical systems	ECE4076 Computer vision	TRC4800 Robotics	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	TRC4407 Automation design project	ECE4179 Neural networks and deep learning	Complete one Professional Practice domain unit	

NOTE:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- **ECE2072** - If you have completed this unit as a First Year breadth study unit, it will count towards your robotics and mechatronics engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study 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.
- For enrolment advice, please refer to the Course advisers webpage.

Course progression map for 2025 commencing students

This progression map provides advice on the optimal sequencing of units and guidance on planning unit enrolment for each semester of study in conjunction with the required units outlined in the course 'Requirements' section of the Handbook. Please note that the map may be updated to reflect changes to course requirements. Be sure to review it for the latest information before re-enrolling. *Last updated: 12 October 2025*

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, you must overload to complete ENG1012 Engineering design
Year 2 Semester 2 July	FIT2099 Object-oriented design and implementation	FIT2101 Software engineering process and management	Level 2 science major unit	Level 1 science elective	
Year 3 Semester 1 February	MAT1830 Discrete mathematics for computer science	FIT3171 Databases	Level 2 or 3 science elective	Level 3 science major unit	
Year 3 Semester 2 July	FIT2107 Software quality and testing	FIT2085 Fundamentals of algorithms for engineers	FIT2100 Operating systems	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		FIT2004 Algorithms and data structures	Level 2 or 3 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 software engineering 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 software engineering project B	Level 4 or 5 software engineering core elective	Level 2 or 3 science elective	

NOTE:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- If you completed FIT1058 in 2025, it will be counted in place of MAT1830. Otherwise, you must complete MAT1830.
- **FIT2085** - If you have completed this unit as a First Year breadth study unit, it will count towards your software engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study 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.
- For enrolment advice, please refer to the Course advisers webpage.