

Course progression map for 2017 commencing students

This progression map provides advice on the suitable sequencing of units and guidance on how to plan unit enrolment for each semester of study. It should be used in conjunction with the requirements of the course as specified in the [Handbook](#). The map is subject to updates. Update version: 18 December 2023

E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation - Aerospace Engineering

	Bachelor of Aerospace Engineering (Honours)		Bachelor of Commerce	
YEAR 1 Semester 1	ENG1001 Engineering design: lighter, faster, stronger or ENG1002	ENG1003 Engineering mobile apps or ENG1005	Foundation unit or ENG1060 Computing for engineers	ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting
YEAR 1 Semester 2	ENG1002 Engineering design: cleaner, safer, smarter or ENG1001	ENG1005 Engineering mathematics or ENG1003	Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)	ECC1000 Principles of microeconomics
YEAR 2 Semester 1	ENG2005 Advanced engineering mathematics	MEC2401 Dynamics I	ETC1000 Business and economic statistics	BTC1110 Commercial law
YEAR 2 Semester 2	MAE2404 Aerodynamics 1	MAE2402 Thermodynamics and heat transfer <small>Unit title change from 2021</small>	MKC1200 Principles of marketing	MGC1010 Introduction to management
YEAR 3 Semester 1	MAE2401 Aircraft structures 1 <small>Replace with MEC2403 from 2023</small>	MAE3401 Aerodynamics 2	Commerce major	Commerce major
YEAR 3 Semester 2	MAE2405 Aircraft performance (if not already completed at First Year) or 6 credit point unit as directed by the Course Coordinator	MAE3405 Flight vehicle propulsion <small>Unit title change from 2022</small>	Commerce major	Commerce major
YEAR 4 Semester 1	MAE3456 Aerospace computational mechanics <small>Replace with MEC3456 from 2023</small>	MAE3404 Flight vehicle dynamics	Commerce major	Commerce major – at level 3
YEAR 4 Semester 2	MAE3426 Computer-aided design	MAE3408 Aerospace control	Commerce major – at level 3	Commerce major – at level 3
YEAR 5 Semester 1	MEC4401 Final year project <small>Replace with ENG4701 from 2021/22</small>	MAE4404 Aerospace practices <small>Replace with MEC4404 from 2023</small>	MAE4411 Aircraft structures 2	Capstone Portfolio unit – level 3
YEAR 5 Semester 2	MEC4402 Final year project – Thesis <small>Replace with ENG4702 from 2022</small>	MAE4410 Flight vehicle design	MAE4408 Damage tolerance and airworthiness	Commerce elective

If two foundation units are required then overload is required for PHS1080 Foundation physics
*This unit is replaced by PHS1001 Foundation physics from 2018

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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation - Chemical Engineering

	Bachelor of Chemical Engineering (Honours)		Bachelor of Commerce	
YEAR 1 Semester 1	ENG1001 Engineering design: lighter, faster, stronger or ENG1002	ENG1003 Engineering mobile apps or ENG1005	Foundation unit or ENG1060 Computing for engineers	ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting
YEAR 1 Semester 2	ENG1002 Engineering design: cleaner, safer, smarter or ENG1001	ENG1005 Engineering mathematics or ENG1003	Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)	ECC1000 Principles of microeconomics
YEAR 2 Semester 1	CHE2161 Mechanics of fluids (if not already completed at level one) or 6 point unit as directed by coordinator	CHM1011 Chemistry 1 (if not already completed at level one) or CHM1051 Chemistry 1 advanced	ETC1000 Business and economic statistics	BTC1110 Commercial law
YEAR 2 Semester 2	CHE2162 Material and energy balances	ENG2005 Advanced engineering mathematics	MKC1200 Principles of marketing	MGC1010 Intro to management
YEAR 3 Semester 1	CHE2164 Thermodynamics 1	CHE3167 Transport phenomena and numerical methods	Commerce major	Commerce major
YEAR 3 Semester 2	CHE2163 Heat and mass transfer	CHE3162 Process control	Commerce major	Commerce major
YEAR 4 Semester 1	CHE3161 Chemistry and chemical thermodynamics	CHE3165 Separation processes	Commerce major	Commerce major – at level 3
YEAR 4 Semester 2	CHE3166 Process design	CHE3164 Reaction engineering	Commerce major – at level 3	Commerce major – at level 3
YEAR 5 Semester 1	CHE4164 Integrated industrial project (18 points) For selected students taking a period of integrated industrial training in the first semester of their final year. This will replace the two core units below [CHE4161 and CHE4180 (or ENG4701 and ENG4702)]			Capstone portfolio unit - level 3
OR				
YEAR 5 Semester 1	CHE4180 Chemical engineering project Replace with ENG4701 from 2021. See footnote	CHE4162 Particle technology	CHE4161 Engineers in society	Capstone portfolio unit - level 3
YEAR 5 Semester 2	ENG4702 Final year project B See footnote	CHE4170 Design project (12 points)		Commerce 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.
- Depending on placement location, students who choose CHE4164 may have to overload a semester or extend an additional semester in order to complete their course requirement.
- Students should not overload in the semester of undertaking CHE4170.
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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation - Civil Engineering

	Bachelor of Civil Engineering (Honours)		Bachelor of Commerce	
YEAR 1 Semester 1	ENG1001 Engineering design: lighter, faster, stronger or ENG1002	ENG1003 Engineering mobile apps or ENG1005	Foundation unit or ENG1060 Computing for engineers	ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting
YEAR 1 Semester 2	ENG1002 Engineering design: cleaner, safer, smarter or ENG1001	ENG1005 Engineering mathematics or ENG1003	Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)	ECC1000 Principles of microeconomics
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 from 2019</small>	ETC1000 Business and economic statistics	BTC1110 Commercial law
YEAR 2 Semester 2	CIV2242 Geomechanics 1	ENG2005 Advanced engineering mathematics	MKC1200 Principles of marketing	MGC1010 Intro to management
YEAR 3 Semester 1	CIV3221 Building structures and technology	CIV2263 Water systems	Commerce major	Commerce major
YEAR 3 Semester 2	CIV3204 Engineering investigation <small>See footnote</small>	CIV2282 Transport and traffic engineering	Commerce major	Commerce major
YEAR 4 Semester 1	CIV3285 Engineering hydrology	CIV3248 Groundwater and environmental geomechanics	Commerce major	Commerce major – at level 3
YEAR 4 Semester 2	CIV3247 Geomechanics 2	CIV3284 Design of concrete and masonry structures <small>Replace with CIV3294 from 2022</small>	Commerce major – at level 3	Commerce major – at level 3
YEAR 5 Semester 1	CIV4210 Project A <small>Replace with ENG4701 from 2022. See footnote</small>	CIV4280 Bridge design and assessment	CIV4286 Project management for civil engineers	Capstone portfolio unit – level 3
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	Commerce elective

Note:

- **FROM 2022:** Following a recent advice by Engineers Australia, you must complete 12 CP of a final year project in order to meet professional accreditation requirements. Please seek course advice from the [Student Services](#) at the Faculty of Engineering.
- **CIV4210** – If you are course-completing in 2022/S1, complete CIV4210 (for 6CP FYP) or CIV4211 (if undertaking 12CP FYP). Otherwise, replace CIV4210 with ENG4701 from 2022.
- **CIV3204** – If you have not completed CIV3204 by 2021, replace CIV3204 with CIV3283 Road engineering from 2022.
- **CIV4287** – If you have completed CIV3204 but not CIV4287 by 2021, replace CIV4287 with ENG4702 from 2022. CIV3283 is highly recommended to be taken as a level 3 civil engineering technical elective.
- The placement of units may be rearranged to support sequencing for double degree courses but care should be taken to ensure sequenced units are maintained in sequence.
- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information refer to the [CPD webpage](#).

For enrolment advice, please refer to the [Course Advisers webpage](#).

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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation - Electrical and Computer Systems Engineering

	Bachelor of Electrical and Computer Systems Engineering (Honours)		Bachelor of Commerce	
YEAR 1 Semester 1	ENG1001 Engineering design: lighter, faster, stronger or ENG1002	ENG1003 Engineering mobile apps or ENG1005	Foundation unit or ENG1060 Computing for engineers	ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting
YEAR 1 Semester 2	ENG1002 Engineering design: cleaner, safer, smarter or ENG1001	ENG1005 Engineering mathematics or ENG1003	Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)	ECC1000 Principles of microeconomics
YEAR 2 Semester 1	ENG2005 Advanced engineering mathematics	ECE2071 Computer organisation and programming	ETC1000 Business and economic statistics	BTC1110 Commercial law
YEAR 2 Semester 2	ECE2191 Probability models in engineering	ECE2072 Digital systems	MKC1200 Principles of marketing	MGC1010 Intro to management
YEAR 3 Semester 1	ECE3073 Computer systems	ECE2131 Electrical circuits	Commerce major	Commerce major
YEAR 3 Semester 2	ECE2111 Signals and systems	ECE3121 Engineering electromagnetics <small>Replace ECE3121 with ECE3122 in 2024</small>	Commerce major	Commerce major
YEAR 4 Semester 1	ECE3161 Analogue electronics	ECE3141 Information and networks	Commerce major	Commerce major – at level 3
YEAR 4 Semester 2	ECE3051 Electrical energy systems*	ECE3091 Engineering design <small>Replace with ECE4191 from 2022. See footnote</small>	Commerce major – at level 3	Commerce major – at level 3
YEAR 5 Semester 1	ECE4094 Project A <small>Replace with ENG4701 from 2021/22</small>	Level 4 or 5 ECE-coded core elective	Level 4 or 5 ECE-coded core elective	Capstone portfolio unit – level 3
YEAR 5 Semester 2	ECE4095 Project B <small>Replace with ENG4702 from 2022</small>	ECE4099 Professional practice	ECE4132 Control system design**	Commerce elective

* This unit replaces ECE4151 Electrical energy systems

** This unit replaces ECE3132 Control systems design

ECE3091 – Replace with ECE4191 if you have not completed ECE3091 by 2021. ECE4191 should be undertaken in your final year of study by swapping placement on the course map with ECE4132 or the level 4 ECSE technical elective.

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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation - Environmental Engineering

	Bachelor of Environmental Engineering (Honours)		Bachelor of Commerce	
YEAR 1 Semester 1	ENG1001 Engineering design: lighter, faster, stronger or ENG1002	ENG1003 Engineering mobile apps or ENG1005	Foundation unit or ENG1060 Computing for engineers	ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting
YEAR 1 Semester 2	ENG1002 Engineering design: cleaner, safer, smarter or ENG1001	ENG1005 Engineering mathematics or ENG1003	Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)	ECC1000 Principles of microeconomics
YEAR 2 Semester 1	ECC2800 Prosperity, poverty and sustainability in a globalised world	BIO2011 Ecology and biodiversity	ETC1000 Business and economics statistics	BTC1110 Commercial law
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	CHE2162 Material and energy balances	MKC1200 Principles of marketing	MGC1010 Intro to management
YEAR 3 Semester 1	ENE3048 Energy and the environment <i>Replaced by ENE2021 in 2019</i>	CIV2263 Water systems	Commerce major	Commerce major
YEAR 3 Semester 2	CHE2164 Thermodynamics 1	ENE2503 Materials properties and recycling	Commerce major	Commerce major
YEAR 4 Semester 1	CIV3248 Groundwater and environmental geomechanics	Environmental engineering technical elective at level 4	Commerce major	Commerce major – at level 3
YEAR 4 Semester 2	ENE3606 The air environment	CIV3285 Engineering hydrology <i>Semester 1 offering from 2019</i>	Commerce major – at level 3	Commerce major – at level 3
YEAR 5 Semester 1	<i>Streams: Geomechanics, Transport, Water management</i> CIV4210 Project A <i>Replace with ENG4701 from 2022. See footnote</i>	BTX3100 Sustainability regulation for business	ENE3608 Environmental impact assessment and management systems <i>Replaced by ENE4042 from 2020</i>	Capstone portfolio unit – level 3
YEAR 5 Semester 2	ENE4607 Environmental risk assessment <i>Replace with ENG4702 from 2022. See footnote</i>	<i>Streams: Geomechanics, Transport, Water management</i> CIV4212 Civil and environmental engineering practice <i>Stream: Sustainable processing</i> CHE4170 Design project	CIV4286 Project management for civil engineers	Commerce elective

Note:

- **FROM 2022:** Following a recent advice by Engineers Australia, you must complete 12 CP of a final year project (FYP) in order to meet professional accreditation requirements. To undertake 12CP FYP units ENG4701 and ENG4702, you must free up 6 credit points by reserving the level 4 technical elective (the 6 CP elective that counts towards the Part C and D of the course requirement) for the FYP or by dropping **ENE4607** or **BTX3100** (if you haven't already completed these units by 2021). Please seek course advice from the [Student Services](#) at the Faculty of Engineering.
- **CIV4210** – If you are course-completing in 2022/S1, complete CIV4210 (if undertaking 6CP FYP only) or CIV4211 (if undertaking 12CP FYP). Otherwise, replace CIV4210 with ENG4701 from 2022.
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Specialisation - Materials Engineering

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YEAR 1 Semester 1	ENG1001 Engineering design: lighter, faster, stronger or ENG1002	ENG1003 Engineering mobile apps or ENG1005	Foundation unit or ENG1060 Computing for engineers	ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting
YEAR 1 Semester 2	ENG1002 Engineering design: cleaner, safer, smarter or ENG1001	ENG1005 Engineering mathematics or ENG1003	Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)	ECC1000 Principles of microeconomics
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>	ETC1000 Business and economic statistics	BTC1110 Commercial law
YEAR 2 Semester 2	MTE2542 Microstructural development <small>Replace with MTE2102 from 2021 (Semester 1 offering)</small>	ENG2005 Advanced engineering maths	MKC1200 Principles of marketing	MGC1010 Intro to management
YEAR 3 Semester 1	MTE3541 Materials durability <small>Replace with MTE3103 from 2022.</small>	MTE2546 Mechanics of materials <small>Replace with MTE2103 from 2021.</small>	Commerce major	Commerce major
YEAR 3 Semester 2	MTE3545 Functional materials and devices <small>Replace with MTE3202 from 2022.</small>	MTE2545 Polymers and ceramics 1 <small>See footnote 2</small>	Commerce major	Commerce 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>	Commerce major	Commerce major – at level 3
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>	Commerce major – at level 3	Commerce major – at level 3
YEAR 5 Semester 1	MTE4525 Project 1 <small>Replace with ENG4701 from 2021/22</small>	MTE4571 Materials engineering design and practice <small>See footnote 3</small>	MTE4572 Polymer and composite processing and engineering <small>See footnote 3</small>	Capstone portfolio unit – level 3
YEAR 5 Semester 2	MTE4526 Project 2 <small>Replace with ENG4702 from 2022</small>	Level 4 or 5 MTE-coded materials engineering core elective	MTE4573 Processing and engineering of metals and ceramics <small>See footnote 3</small>	Commerce elective

Note:

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

	Bachelor of Mechanical Engineering (Honours)		Bachelor of Commerce	
YEAR 1 Semester 1	ENG1001 Engineering design: lighter, faster, stronger or ENG1002	ENG1003 Engineering mobile apps or ENG1005	Foundation unit or ENG1060 Computing for engineers	ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting
YEAR 1 Semester 2	ENG1002 Engineering design: cleaner, safer, smarter or ENG1001	ENG1005 Engineering mathematics or ENG1003	Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)	ECC1000 Principles of microeconomics
YEAR 2 Semester 1	MEC2403 Mechanics of materials	MEC2401 Dynamics 1	ETC1000 Business and economic statistics	BTC1110 Commercial law
YEAR 2 Semester 2	MEC2404 Mechanics of fluids	ENG2005 Advanced engineering mathematics	MKC1200 Principles of marketing	MGC1010 Intro to management
YEAR 3 Semester 1	MEC2402 Engineering design 1 <i>Unit title change in 2021</i>	MEC3456 Engineering computational analysis	Commerce major	Commerce major
YEAR 3 Semester 2	MEC3457 Systems and control	MEC2405 Thermodynamics	Commerce major	Commerce major
YEAR 4 Semester 1	MEC3455 Solid mechanics	MEC3451 Fluid mechanics 2	Commerce major	Commerce major – at level 3
YEAR 4 Semester 2	MEC3453 Dynamics 2	MEC3416 Engineering design 2 <i>Unit title change in 2021</i>	Commerce major – at level 3	Commerce major – at level 3
YEAR 5 Semester 1	MEC4401 Final year project <i>Replace with ENG4701 from 2021/22</i>	MEC4404 Professional Practice	MEC4408 Thermodynamics and heat transfer	Capstone portfolio unit – level 3
YEAR 5 Semester 2	MEC4402 Final year project – Thesis <i>Replace with ENG4702 from 2022</i>	MEC4407 Engineering design 3 <i>Unit title change from 2021</i>	MEC4426 Computer-aided design	Commerce elective

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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation - Mechatronics Engineering

	Bachelor of Mechatronics Engineering (Honours)		Bachelor of Commerce	
YEAR 1 Semester 1	ENG1001 Engineering design: lighter, faster, stronger or ENG1002	ENG1003 Engineering mobile apps or ENG1005	Foundation unit or ENG1060 Computing for engineers	ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting
YEAR 1 Semester 2	ENG1002 Engineering design: cleaner, safer, smarter or ENG1001	ENG1005 Engineering mathematics or ENG1003	Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)	ECC1000 Principles of microeconomics
YEAR 2 Semester 1	ECE2071 Computer organisation and programming	ECE2131 Electrical circuits	ETC1000 Business and economic statistics	BTC1110 Commercial law
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	TRC2201 Mechanics	MKC1200 Principles of marketing	MGC1010 Intro to management
YEAR 3 Semester 1	TRC3200 Dynamical systems	MEC2402 Engineering design 1 <small>Unit title change in 2021</small>	Commerce major	Commerce major
YEAR 3 Semester 2	ECE3161 Analogue electronics	TRC2001 Intro to systems engineering	Commerce major	Commerce major
YEAR 4 Semester 1	TRC3802 Thermo-fluids and power systems <small>This unit is re-coded TRC4802 from 2018</small>	TRC3500 Sensors and artificial perception	Commerce major	Commerce major – at level 3
YEAR 4 Semester 2	TRC3600 Modelling and control	TRC3000 Mechatronics project 2	Commerce major – at level 3	Commerce major – at level 3
YEAR 5 Semester 1	TRC4000 Mechatronics final year project 1 <small>Replace with ENG4701 from 2021/22</small>	TRC4800 Robotics	MEC4418 Control systems <small>This unit is not offered in 2019 and is replaced by ECE3141 Information and networks</small>	Capstone portfolio unit – level 3
YEAR 5 Semester 2	TRC4001 Mechatronics final year project 2 <small>Replace with ENG4702 from 2022</small>	TRC4902 Mechatronics and manufacturing	TRC4002 Professional Practice	Commerce elective

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Specialisation - Software Engineering

	Bachelor of Software Engineering (Honours)		Bachelor of Commerce	
YEAR 1 Semester 1	ENG1001 Engineering design: lighter, faster, stronger or ENG1002	ENG1003 Engineering mobile apps or ENG1005	Foundation unit or ENG1060 Computing for engineers	ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting
YEAR 1 Semester 2	ENG1002 Engineering design: cleaner, safer, smarter or ENG1001	ENG1005 Engineering mathematics or ENG1003	Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)	ECC1000 Principles of microeconomics
YEAR 2 Semester 1	MAT1830 Discrete mathematics for computer science	FIT2085 Introduction to computer science	ETC1000 Business and economics statistics	BTC1110 Commercial law
YEAR 2 Semester 2	FIT2004 Algorithms and data structures	FIT2101 Software engineering process and management	MKC1200 Principles of Marketing	MGC1010 Introduction to Management
YEAR 3 Semester 1	FIT2100 Operating systems	FIT2099 Object oriented design and implementation	Commerce major	Commerce major
YEAR 3 Semester 2	FIT2107 Software quality and testing	FIT3159 Computer architecture	Commerce major	Commerce major
YEAR 4 Semester 1	FIT3170 Software engineering practice (12 points)	FIT3077 Software engineering: architecture and design	Commerce major	Commerce major – at level 3
YEAR 4 Semester 2		FIT3171 Databases	Commerce major – at level 3	Commerce major – at level 3
YEAR 5 Semester 1	FIT4002 Software engineering industry experience studio project (12 points)	FIT4003 Software engineering research project <small>Replace with FIT4701 from 2023</small>	FIT4165 Computer networks	Capstone portfolio unit – level 3
YEAR 5 Semester 2		<small>Replace with FIT4702 from 2023</small>	Software engineering technical elective at level 4 or 5	Commerce elective

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