MONASH University

Course progression map for 2020 commencing students

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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Common first year

If no foundation units are required:

Year	Sem	Units			
1	1	ENG1001 Engineering design: lighter, faster, stronger	ENG1005 Engineering mathematics	ENG1060 Computing for engineers	ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting
	2	ENG1002 Engineering design: cleaner, safer, smarter	ENG1003 Engineering mobile apps	First year engineering elective unit	ECC1000 Principles of microeconomics

Tip: You can swap the semester of your first year engineering elective and your semester 1 commerce unit.

If you need to enrol in foundation physics and maths*:

1	1	ENG1002 Engineering design: cleaner, safer, smarter	PHS1001 Foundation physics	ENG1090 Foundation mathematics	ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting
	2	ENG1001 Engineering design: lighter, faster, stronger	ENG1005 Engineering mathematics	ENG1060 Computing for engineers	ECC1000 Principles of microeconomics

1. I you require two foundation units, you will need to take the remaining core unit ENG1003 Engineering mobile apps in semester one of year two as an overload, and increase the total credit points needed for the double by 6 points You cannot swap the semesters of any of the units.
2. If you want to complete Software Engineering, you must complete ENG1003 Engineering mobile apps in Year 1 (Semester 1) and PHS1001 Foundation physics in Year 2 (Semester 1) as an overload.

If you need to enrol in foundation maths:

1	1	ENG1002 Engineering design: cleaner, safer, smarter	ENG1003 Engineering mobile apps	ENG1090 Foundation mathematics	ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting
	2	ENG1001 Engineering design: lighter, faster, stronger	ENG1005 Engineering mathematics	ENG1060 Computing for engineers	ECC1000 Principles of microeconomics

Tip: You can swap the semester of ENG1003 and your semester 2 commerce unit if you like.

If you need to enrol in foundation physics:

1	1	ENG1002 Engineering design: cleaner, safer, smarter	ENG1003 Engineering mobile apps	PHS1001 Foundation physics	ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting
	2	ENG1001 Engineering design: lighter, faster, stronger	ENG1005 Engineering mathematics	ENG1060 Computing for engineers	ECC1000 Principles of microeconomics

Tip: You can swap the semester of ENG1003 and your semester 2 commerce unit if you like.

Note:

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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation - Aerospace Engineering

	Bachelor of Aerospace Engineering (Honours)		Bachelor of Commerce		
YEAR 1 Semester 1	**Common first year**			ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting	
YEAR 1 Semester 2				ECC1000 Principles of microeconomics	
YEAR 2 Semester 1	ENG2005 Advanced engineering mathematics	MAE2412 Aerospace design Replace with MEC2402 from 2023	ETC1000 Business and economic statistics	BTC1110 Commercial law	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	MAE2404 Aerodynamics 1	MAE2402 Thermodynamics and gas dynamics	MKC1200 Principles of marketing	MGC1010 Introduction to management	
YEAR 3 Semester 1	MAE2401 Aircraft structures and materials Replace with MEC2403 from 2023	MAE3401 Aerodynamics 2	Commerce major	Commerce major	
YEAR 3 Semester 2	MAE2505 Aerospace dynamics	MAE3405 Flight vehicle propulsion Unit title change from 2022	Commerce major	Commerce major	
YEAR 4 Semester 1	MAE3456 Aerospace computational mechanics Replace with MEC3456 from 2023	MAE3404 Flight vehicle dynamics	Commerce major	Level 3 commerce major	
YEAR 4 Semester 2	MAE3411 Aerospace structural mechanics	MAE3408 Aerospace control	Level 3 commerce major	Level 3 commerce major	
YEAR 5 Semester 1	ENG4701 Final year project A	MAE4404 Aerospace practices and airworthiness Replace with MEC4404 from 2023	MAE4416 Orbital mechanics and spaceflight dynamics	Level 3 Capstone Portfolio unit	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	MAE4410 Flight vehicle design	MAE4426 Finite element analysis and composite structures	Commerce elective	

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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	**Common first year**			ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting	
YEAR 1 Semester 2				ECC1000 Principles of microeconomics	
YEAR 2 Semester 1	ENG2005 Advanced engineering mathematics	CHM1011 Chemistry 1 or CHM1051 Chemistry 1 Advanced	ETC1000 Business and economic statistics	BTC1110 Commercial law	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	CHE2162 Material and energy balances	CHE2161 Mechanics of fluids	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	Level 3 commerce major	
YEAR 4 Semester 2	CHE3166 Process design	CHE3164 Reaction engineering	Level 3 commerce major	Level 3 commerce major	
YEAR 5 Semester 1	ENG4701 Final year project A	CHE4162 Particle technology	CHE4161 Engineers in society	Level three Capstone Portfolio unit	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	CHE4170 Design project (12 points)		Commerce elective	

Note:

- 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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Course progression map for 2020 commencing students

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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	**Common first year**			ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting	
YEAR 1 Semester 2				ECC1000 Principles of microeconomics	
YEAR 2 Semester 1	CIV2282 Transport and traffic engineering	CIV2206 Structural mechanics	ETC1000 Business and economic statistics	BTC1110 Commercial law	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	CIV2235 Structural materials	ENG2005 Advanced engineering mathematics	MKC1200 Principles of marketing	MGC1010 Intro to management	
YEAR 3 Semester 1	CIV3294 Structural design	CIV2263 Water systems	Commerce major	Commerce major	
YEAR 3 Semester 2	CIV3283 Road engineering	CIV2242 Geomechanics 1	Commerce major	Commerce major	
YEAR 4 Semester 1	CIV3285 Engineering hydrology	CIV3248 Groundwater and environmental geomechanics	Commerce major	Level 3 commerce major	
YEAR 4 Semester 2	CIV3247 Geomechanics 2	CIV3221 Building structures and technology	Level 3 commerce major	Level 3 commerce major	
YEAR 5 Semester 1	ENG4701 Final year project A	CIV4280 Bridge design and assessment	CIV4286 Project management for civil engineers	Level 3 Capstone Portfolio unit	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	CIV4212 Civil and environmental engineering practice	CIV4288 Water treatment	Commerce elective	

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Course progression map for 2020 commencing students

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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	**Common first year**			ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting	
YEAR 1 Semester 2				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	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
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 Replace ECE3121 with ECE3122 in 2024	Commerce major	Commerce major	
YEAR 4 Semester 1	ECE3161 Analogue electronics	ECE3141 Information and networks	Commerce major	Level 3 commerce major	
YEAR 4 Semester 2	Level 4 or 5 ECE-coded core elective	ECE4132 Control system design	Level 3 commerce major	Level 3 commerce major	
YEAR 5 Semester 1	ENG4701 Final year project A	ECE3051 Electrical energy systems	Level 4 or 5 ECE-coded core elective	Level 3 Capstone Portfolio unit	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	ECE4191 Engineering integrated design	ECE4099 Professional practice	Commerce elective	

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Course progression map for 2020 commencing students

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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	**Common first year**			ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting	
YEAR 1 Semester 2				ECC1000 Principles of microeconomics	
YEAR 2 Semester 1	BTX3100 Sustainability regulation for business See footnote	ENE2021 Energy and the environment	ETC1000 Business and economics statistics	BTC1110 Commercial law	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	CHE2162 Material and energy balances	MKC1200 Principles of marketing	MGC1010 Intro to management	
YEAR 3 Semester 1	CHE2164 Thermodynamics 1	CIV2263 Water systems	Commerce major	Commerce major	
YEAR 3 Semester 2	ENE3031 Building sustainability	ENE2503 Materials properties and recycling	Commerce major	Commerce major	
YEAR 4 Semester 1	CIV3248 Groundwater and environmental geomechanics	CIV3285 Engineering hydrology	Commerce major	Level 3 commerce major	
YEAR 4 Semester 2	ENE3606 The air environment	ENE3032 Fate and transport of contaminants	Level 3 commerce major	Level 3 commerce major	
YEAR 5 Semester 1	ENG4701 Final year project A	CIV4286 project management for civil engineers	ENE4042 Environment impact and risk assessment	Level 3 Capstone Portfolio unit	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	ENE4041 Soil remediation and solid waste management	CIV4212 Civil and environmental engineering practice	Commerce elective	

Note:

- The Sustainable processing stream is not available in a double degree as it requires extra prerequisites in the elective space.
- BTX3100 is a core unit in both the Sustainability major and the environmental engineering specialisation. If you are majoring in Sustainability in the Bachelor of Commerce, you must replace the BTX3100 requirement in the environmental engineering specialisation with a level 3 or 4 unit chosen from the environmental engineering technical electives list and complete BTX3100 for your Sustainability major.
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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation - Materials Engineering

	Bachelor of Materials Engineering (Honours)		Bachelor of Commerce		
YEAR 1 Semester 1	**Common first year**			ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting	
YEAR 1 Semester 2				ECC1000 Principles of microeconomics	
YEAR 2 Semester 1	MTE2101 Atomic-scale structure of materials	MTE2102 Phase equilibria and phase transformations	ETC1000 Business and economic statistics	BTC1110 Commercial law	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	MTE2202 Functional materials 1	ENG2005 Advanced engineering mathematics	MKC1200 Principles of marketing	MGC1010 Intro to management	
YEAR 3 Semester 1	MTE3103 Materials life cycle	MTE2103 Mechanical properties of materials	Commerce major	Commerce major	
YEAR 3 Semester 2	MTE2201 Polymers	MTE3203 Introduction to ceramics: Properties, processing and applications	Commerce major	Commerce major	
YEAR 4 Semester 1	MTE3102 Plasticity of metals and alloys	MTE3101 Materials in a complex world 1: People, projects and data	Commerce major	Level 3 commerce major	
YEAR 4 Semester 2	MTE3202 Functional materials 2	MTE3201 Materials in a complex world 2: Characterisation, identification and selection	Level 3 commerce major	Level 3 commerce major	
YEAR 5 Semester 1	ENG4701 Final year project A	MTE4101 Integrated design project	MTE4102 Advanced materials processing and manufacturing	Level 3 Capstone Portfolio unit	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	MTE4201 Materials in a complex world 3: Impact in society	Level 4 or 5 MTE-coded materials engineering core elective	Commerce elective	

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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation - Mechanical Engineering

	Bachelor of Mechanical Engineering (Honours)		Bachelor of Commerce		
YEAR 1 Semester 1	**Common first year**			ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting	
YEAR 1 Semester 2				ECC1000 Principles of microeconomics	
YEAR 2 Semester 1	MEC2403 Mechanics of materials	MEC2401 Dynamics 1	ETC1000 Business and economic statistics	BTC1110 Commercial law	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
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 Design methods	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	Level 3 commerce major	
YEAR 4 Semester 2	MEC3453 Dynamics 2	MEC3416 Machine design	Level 3 commerce major	Level 3 commerce major	
YEAR 5 Semester 1	ENG4701 Final year project A	MEC4404 Professional Practice	MEC4408 Thermodynamics and heat transfer	Level 3 Capstone Portfolio unit	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	MEC4407 Design project	MEC4426 Computer-aided design	Commerce elective	

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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation – Robotics and Mechatronics Engineering *(Artificial intelligence stream)*

	Bachelor of Robotics and Mechatronics Engineering (Honours)		Bachelor of Commerce		
YEAR 1 Semester 1	**Common first year**			ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting	
YEAR 1 Semester 2				ECC1000 Principles of microeconomics	
YEAR 2 Semester 1	ECE2071 Computer organisation and programming	ECE2131 Electrical circuits	ETC1000 Business and economic statistics	BTC1110 Commercial law	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	TRC2201 Mechanics	MKC1200 Principles of marketing	MGC1010 Intro to management	
YEAR 3 Semester 1	TRC3200 Dynamical systems	MEC2402 Design methods	Commerce major	Commerce major	
YEAR 3 Semester 2	ECE4179 Neural networks and deep learning	ECE2072 Digital systems	Commerce major	Commerce major	
YEAR 4 Semester 1	ECE3161 Analogue electronics	TRC3500 Sensors and artificial perception	Commerce major	Level 3 commerce major	
YEAR 4 Semester 2	TRC3600 Modelling and control	ECE4078 Intelligent robotics	Level 3 commerce major	Level 3 commerce major	
YEAR 5 Semester 1	ENG4701 Final year project A	TRC4800 Robotics	ECE4076 Computer vision	Level 3 Capstone Portfolio unit	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	ECE4191 Engineering integrated design	TRC4002 Professional Practice	Commerce elective	

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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation – Robotics and Mechatronics Engineering *(Automation stream)*

	Bachelor of Robotics and Mechatronics Engineering (Honours)		Bachelor of Commerce		
YEAR 1 Semester 1	**Common first year**			ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting	
YEAR 1 Semester 2				ECC1000 Principles of microeconomics	
YEAR 2 Semester 1	ECE2071 Computer organisation and programming	ECE2131 Electrical circuits	ETC1000 Business and economic statistics	BTC1110 Commercial law	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	ENG2005 Advanced engineering mathematics	TRC2201 Mechanics	MKC1200 Principles of marketing	MGC1010 Intro to management	
YEAR 3 Semester 1	TRC3200 Dynamical systems	MEC2402 Design methods	Commerce major	Commerce major	
YEAR 3 Semester 2	TRC4802 Thermo-fluids and power systems	ECE2072 Digital systems	Commerce major	Commerce major	
YEAR 4 Semester 1	ECE3161 Analogue electronics	TRC3500 Sensors and artificial perception	Commerce major	Level 3 commerce major	
YEAR 4 Semester 2	TRC3600 Modelling and control	TRC3000 Automation project	Level 3 commerce major	Level 3 commerce major	
YEAR 5 Semester 1	ENG4701 Final year project A	TRC4800 Robotics	TRC4200 Engineering cyber-physical systems	Level 3 Capstone Portfolio unit	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2	ENG4702 Final year project B	TRC4902 Mechatronics and manufacturing	TRC4002 Professional Practice	Commerce elective	

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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation - Software Engineering

	Bachelor of Software Engineering (Honours)		Bachelor of Commerce		
YEAR 1 Semester 1	**Common first year**			ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting	
YEAR 1 Semester 2				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	If two foundation units are required then overload is required for ENG1003 Engineering mobile apps
YEAR 2 Semester 2	FIT2004 Algorithms and data structures	FIT2101 Software engineering process and management	MKC1200 Principles of Marketing	MGC1010 Introduction to Management	
YEAR 3 Semester 1	FIT3159 Computer architecture	FIT2099 Object oriented design and implementation	Commerce major	Commerce major	
YEAR 3 Semester 2	FIT2107 Software quality and testing	FIT2100 Operating systems	Commerce major	Commerce major	
YEAR 4 Semester 1	FIT3170 Software engineering practice (12 points)	FIT3077 Software engineering: architecture and design	Commerce major	Level 3 commerce major	
YEAR 4 Semester 2		FIT3171 Databases	Level 3 commerce major	Level 3 commerce major	
YEAR 5 Semester 1	FIT4002 Software engineering industry experience studio project (12 points)	FIT4003 Software engineering research project Replace with FIT4701 from 2023	FIT4165 Computer networks	Level three Capstone Portfolio unit	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Semester 2		Replace with FIT4702 from 2023	Level 4 or 5 software engineering core elective	Commerce elective	

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