

## Course progression map for 2021 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

#### Common first year

If no foundation units are required:					
Year	Sem	Units			
1	1	<a href="#">ENG1001</a> Engineering design: Lighter, faster, stronger	<a href="#">ENG1005</a> Engineering mathematics	<a href="#">ENG1060</a> Computing for engineers	<a href="#">ACC1200</a> Accounting for managers or <a href="#">ACC1100</a> Introduction to financial accounting
	2	<a href="#">ENG1002</a> Engineering design: Cleaner, safer, smarter	<a href="#">ENG1003</a> Engineering mobile apps	<a href="#">First Year engineering technical elective</a>	<a href="#">ECC1000</a> 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	<a href="#">ENG1002</a> Engineering design: Cleaner, safer, smarter	<a href="#">PHS1001</a> Foundation physics	<a href="#">ENG1090</a> Foundation mathematics	<a href="#">ACC1200</a> Accounting for managers or <a href="#">ACC1100</a> Introduction to financial accounting
	2	<a href="#">ENG1001</a> Engineering design: Lighter, faster, stronger	<a href="#">ENG1005</a> Engineering mathematics	<a href="#">ENG1060</a> Computing for engineers	<a href="#">ECC1000</a> Principles of microeconomics
<ol style="list-style-type: none"> <li>1. If 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.</li> <li>2. If you want to complete Software Engineering, you must complete ENG1003 Engineering mobile apps in Year 1 (Semester 1) and ENG1001 Engineering design: Lighter, faster, stronger in Year 2 (Semester 1) as an overload.</li> </ol>					

If you need to enrol in foundation maths:					
1	1	<a href="#">ENG1002</a> Engineering design: Cleaner, safer, smarter	<a href="#">ENG1003</a> Engineering mobile apps	<a href="#">ENG1090</a> Foundation mathematics	<a href="#">ACC1200</a> Accounting for managers or <a href="#">ACC1100</a> Introduction to financial accounting
	2	<a href="#">ENG1001</a> Engineering design: Lighter, faster, stronger	<a href="#">ENG1005</a> Engineering mathematics	<a href="#">ENG1060</a> Computing for engineers	<a href="#">ECC1000</a> 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	<a href="#">ENG1002</a> Engineering design: Cleaner, safer, smarter	<a href="#">ENG1003</a> Engineering mobile apps	<a href="#">PHS1001</a> Foundation physics	<a href="#">ACC1200</a> Accounting for managers or <a href="#">ACC1100</a> Introduction to financial accounting
	2	<a href="#">ENG1001</a> Engineering design: Lighter, faster, stronger	<a href="#">ENG1005</a> Engineering mathematics	<a href="#">ENG1060</a> Computing for engineers	<a href="#">ECC1000</a> Principles of microeconomics
Tip: You can swap the semester of ENG1003 and your semester 2 commerce unit if you like.					

#### 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](#).
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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 February	Common first year			<a href="#">ACC1200</a> Accounting for managers or <a href="#">ACC1100</a> Introduction to financial accounting	
Year 1 Semester 2 July				<a href="#">ECC1000</a> Principles of microeconomics	
Year 2 Semester 1 February	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">MAE2412</a> Aerospace design Replace with <a href="#">MEC2402</a> from 2023	<a href="#">ETC1000</a> Business and economic statistics	<a href="#">BTC1110</a> Commercial law	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
Year 2 Semester 2 July	<a href="#">MAE2404</a> Aerodynamics 1	<a href="#">MAE2402</a> Thermodynamics and gas dynamics	<a href="#">MKC1200</a> Principles of marketing	<a href="#">MGC1010</a> Introduction to management	
Year 3 Semester 1 February	<a href="#">MAE2401</a> Aerospace structures and materials Replace with <a href="#">MEC2403</a> from 2023	<a href="#">MAE3401</a> Aerodynamics 2	Commerce listed major unit 1	Commerce listed major unit 2	
Year 3 Semester 2 July	<a href="#">MAE2505</a> Aerospace dynamics	<a href="#">MAE3405</a> Flight vehicle propulsion Unit title change in 2022	Commerce listed major unit 3	Commerce listed major unit 4	
Year 4 Semester 1 February	<a href="#">MAE3456</a> Aerospace computational mechanics Replace with <a href="#">MEC3456</a> from 2023	<a href="#">MAE3404</a> Flight vehicle dynamics	Commerce listed major 3 <sup>rd</sup> year level unit 5	Commerce listed major 3 <sup>rd</sup> year level unit 6	
Year 4 Semester 2 July	<a href="#">MAE3411</a> Aerospace structural mechanics	<a href="#">MAE3408</a> Aerospace control	Commerce listed major 3 <sup>rd</sup> year level unit 7	Capstone, consulting project, international experience or internship unit	
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">MAE4404</a> Aerospace practices and airworthiness Replace with <a href="#">MEC4404</a> from 2023	<a href="#">MAE4416</a> Orbital mechanics and spaceflight dynamics	Commerce listed major unit 8 or additional commerce unit from the Faculty of Business and Economics	<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">MAE4410</a> Flight vehicle design	<a href="#">MAE4426</a> Finite element analysis and composite structures	Commerce elective unit from the Faculty of Business and Economics	

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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 February	Common first year			<a href="#">ACC1200</a> Accounting for managers or <a href="#">ACC1100</a> Introduction to financial accounting	
Year 1 Semester 2 July				<a href="#">ECC1000</a> Principles of microeconomics	
Year 2 Semester 1 February	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">CHM1011</a> Chemistry 1 or <a href="#">CHM1051</a> Chemistry 1 Advanced	<a href="#">ETC1000</a> Business and economic statistics	<a href="#">BTC1110</a> Commercial law	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
Year 2 Semester 2 July	<a href="#">CHE2162</a> Material and energy balances	<a href="#">CHE2161</a> Mechanics of fluids	<a href="#">MKC1200</a> Principles of marketing	<a href="#">MGC1010</a> Intro to management	
Year 3 Semester 1 February	<a href="#">CHE2164</a> Thermodynamics 1	<a href="#">CHE3167</a> Transport phenomena and numerical methods	Commerce listed major unit 1	Commerce listed major unit 2	
Year 3 Semester 2 July	<a href="#">CHE2163</a> Heat and mass transfer	<a href="#">CHE3162</a> Process control	Commerce listed major unit 3	Commerce listed major unit 4	
Year 4 Semester 1 February	<a href="#">CHE3161</a> Chemistry and chemical thermodynamics	<a href="#">CHE3165</a> Separation processes	Commerce listed major 3 <sup>rd</sup> year level unit 5	Commerce listed major 3 <sup>rd</sup> year level unit 6	
Year 4 Semester 2 July	<a href="#">CHE3166</a> Process design	<a href="#">CHE3164</a> Reaction engineering	Commerce listed major 3 <sup>rd</sup> year level unit 7	Capstone, consulting project, international experience or internship unit	
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">CHE4162</a> Particle technology	<a href="#">CHE4161</a> Engineers in society	Commerce listed major unit 8 or additional commerce unit from the Faculty of Business and Economics	<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">CHE4170</a> Design project (12 points)		Commerce elective unit from the Faculty of Business and Economics	

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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### E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

#### Specialisation -Civil Engineering

	Bachelor of Civil Engineering (Honours)		Bachelor of Commerce		
Year 1 Semester 1 February	Common first year			<a href="#">ACC1200</a> Accounting for managers or <a href="#">ACC1100</a> Introduction to financial accounting	
Year 1 Semester 2 July				<a href="#">ECC1000</a> Principles of microeconomics	
Year 2 Semester 1 February	<a href="#">CIV2282</a> Transport and traffic engineering	<a href="#">CIV2206</a> Structural mechanics	<a href="#">ETC1000</a> Business and economic statistics	<a href="#">BTC1110</a> Commercial law	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
Year 2 Semester 2 July	<a href="#">CIV2235</a> Structural materials	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">MKC1200</a> Principles of marketing	<a href="#">MGC1010</a> Intro to management	
Year 3 Semester 1 February	<a href="#">CIV3294</a> Structural design	<a href="#">CIV2263</a> Water systems	Commerce listed major unit 1	Commerce listed major unit 2	
Year 3 Semester 2 July	<a href="#">CIV3283</a> Road engineering	<a href="#">CIV2242</a> Geomechanics 1	Commerce listed major unit 3	Commerce listed major unit 4	
Year 4 Semester 1 February	<a href="#">CIV3285</a> Engineering hydrology	<a href="#">CIV3248</a> Groundwater and environmental geomechanics	Commerce listed major 3 <sup>rd</sup> year level unit 5	Commerce listed major 3 <sup>rd</sup> year level unit 6	
Year 4 Semester 2 July	<a href="#">CIV3247</a> Geomechanics 2	<a href="#">CIV3221</a> Building structures and technology	Commerce listed major 3 <sup>rd</sup> year level unit 7	Capstone, consulting project, international experience or internship unit	
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">CIV4280</a> Bridge design and assessment	<a href="#">CIV4286</a> Project management for civil engineers	Commerce listed major unit 8 or additional commerce unit from the Faculty of Business and Economics	<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">CIV4212</a> Civil and environmental engineering practice	<a href="#">CIV4288</a> Water treatment	Commerce elective unit from the Faculty of Business and Economics	

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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 February	Common first year			<a href="#">ACC1200</a> Accounting for managers or <a href="#">ACC1100</a> Introduction to financial accounting	
Year 1 Semester 2 July				<a href="#">ECC1000</a> Principles of microeconomics	
Year 2 Semester 1 February	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">ECE2071</a> Computer organisation and programming	<a href="#">ETC1000</a> Business and economic statistics	<a href="#">BTC1110</a> Commercial law	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
Year 2 Semester 2 July	<a href="#">ECE2191</a> Probability models in engineering	<a href="#">ECE2072</a> Digital systems	<a href="#">MKC1200</a> Principles of marketing	<a href="#">MGC1010</a> Intro to management	
Year 3 Semester 1 February	<a href="#">ECE3073</a> Computer systems	<a href="#">ECE2131</a> Electrical circuits	Commerce listed major unit 1	Commerce listed major unit 2	
Year 3 Semester 2 July	<a href="#">ECE2111</a> Signals and systems	<a href="#">ECE3121</a> Engineering electromagnetics <small>Replace <a href="#">ECE3121</a> with <a href="#">ECE3122</a> in 2024</small>	Commerce listed major unit 3	Commerce listed major unit 4	
Year 4 Semester 1 February	<a href="#">ECE3161</a> Analogue electronics	<a href="#">ECE3141</a> Information and networks	Commerce listed major 3 <sup>rd</sup> year level unit 5	Commerce listed major 3 <sup>rd</sup> year level unit 6	
Year 4 Semester 2 July	<a href="#">Level 4 or 5 ECE-coded core elective</a>	<a href="#">ECE4132</a> Control system design	Commerce listed major 3 <sup>rd</sup> year level unit 7	Capstone, consulting project, international experience or internship unit	
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">ECE3051</a> Electrical energy systems	<a href="#">Level 4 or 5 ECE-coded core elective</a>	Commerce listed major unit 8 or additional commerce unit from the Faculty of Business and Economics	<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">ECE4191</a> Engineering integrated design	<a href="#">ECE4099</a> Professional practice	Commerce elective unit from the Faculty of Business and Economics	

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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 February	Common first year				<a href="#">ACC1200</a> Accounting for managers or <a href="#">ACC1100</a> Introduction to financial accounting
Year 1 Semester 2 July					<a href="#">ECC1000</a> Principles of microeconomics
Year 2 Semester 1 February	<a href="#">BTX3100</a> Sustainability regulation for business See footnote	<a href="#">ENE2021</a> Energy and the environment	<a href="#">ETC1000</a> Business and economics statistics	<a href="#">BTC1110</a> Commercial law	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
Year 2 Semester 2 July	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">CHE2162</a> Material and energy balances	<a href="#">MKC1200</a> Principles of marketing	<a href="#">MGC1010</a> Intro to management	
Year 3 Semester 1 February	<a href="#">CHE2164</a> Thermodynamics 1	<a href="#">CIV2263</a> Water systems	Commerce listed major unit 1	Commerce listed major unit 2	
Year 3 Semester 2 July	<a href="#">ENE3031</a> Building sustainability	<a href="#">ENE2503</a> Materials properties and recycling	Commerce listed major unit 3	Commerce listed major unit 4	
Year 4 Semester 1 February	<a href="#">CIV3248</a> Groundwater and environmental geomechanics	<a href="#">CIV3285</a> Engineering hydrology	Commerce listed major 3 <sup>rd</sup> year level unit 5	Commerce listed major 3 <sup>rd</sup> year level unit 6	
Year 4 Semester 2 July	<a href="#">ENE3606</a> The air environment	<a href="#">ENE3032</a> Fate and transport of contaminants	Commerce listed major 3 <sup>rd</sup> year level unit 7	Capstone, consulting project, international experience or internship unit	
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">CIV4286</a> project management for civil engineers	<a href="#">ENE4042</a> Environment impact and risk assessment	Commerce listed major unit 8 or additional commerce unit from the Faculty of Business and Economics	<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">ENE4041</a> Soil remediation and solid waste management	<a href="#">CIV4212</a> Civil and environmental engineering practice	Commerce elective unit from the Faculty of Business and Economics	

**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 February	Common first year			<a href="#">ACC1200</a> Accounting for managers or <a href="#">ACC1100</a> Introduction to financial accounting	
Year 1 Semester 2 July				<a href="#">ECC1000</a> Principles of microeconomics	
Year 2 Semester 1 February	<a href="#">MTE2101</a> Atomic-scale structure of materials	<a href="#">MTE2103</a> Mechanical properties of materials	<a href="#">ETC1000</a> Business and economic statistics	<a href="#">BTC1110</a> Commercial law	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
Year 2 Semester 2 July	<a href="#">MTE2201</a> Polymers	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">MKC1200</a> Principles of marketing	<a href="#">MGC1010</a> Intro to management	
Year 3 Semester 1 February	<a href="#">MTE3103</a> Materials life cycle	<a href="#">MTE2102</a> Phase equilibria and phase transformations	Commerce listed major unit 1	Commerce listed major unit 2	
Year 3 Semester 2 July	<a href="#">MTE3203</a> Introduction to ceramics: Properties, processing and applications	<a href="#">MTE2202</a> Functional materials 1	Commerce listed major unit 3	Commerce listed major unit 4	
Year 4 Semester 1 February	<a href="#">MTE3102</a> Plasticity of metals and alloys	<a href="#">MTE3101</a> Materials in a complex world 1: People, projects and data	Commerce listed major 3 <sup>rd</sup> year level unit 5	Commerce listed major 3 <sup>rd</sup> year level unit 6	
Year 4 Semester 2 July	<a href="#">MTE3202</a> Functional materials 2	<a href="#">MTE3201</a> Materials in a complex world 2: Characterisation, identification and selection	Commerce listed major 3 <sup>rd</sup> year level unit 7	Capstone, consulting project, international experience or internship unit	
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">MTE4101</a> Integrated design project	<a href="#">MTE4102</a> Advanced materials processing and manufacturing	Commerce listed major unit 8 or additional commerce unit from the Faculty of Business and Economics	<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">MTE4201</a> Materials in a complex world 3: Impact in society	<a href="#">Level 4 or 5 MTE-coded materials engineering core elective</a>	Commerce elective unit from the Faculty of Business and Economics	

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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 February	Common first year			<a href="#">ACC1200</a> Accounting for managers or <a href="#">ACC1100</a> Introduction to financial accounting	
Year 1 Semester 2 July				<a href="#">ECC1000</a> Principles of microeconomics	
Year 2 Semester 1 February	<a href="#">MEC2403</a> Mechanics of materials	<a href="#">MEC2401</a> Dynamics 1	<a href="#">ETC1000</a> Business and economic statistics	<a href="#">BTC1110</a> Commercial law	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
Year 2 Semester 2 July	<a href="#">MEC2404</a> Mechanics of fluids	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">MKC1200</a> Principles of marketing	<a href="#">MGC1010</a> Intro to management	
Year 3 Semester 1 February	<a href="#">MEC2402</a> Design methods	<a href="#">MEC3456</a> Engineering computational analysis	Commerce listed major unit 1	Commerce listed major unit 2	
Year 3 Semester 2 July	<a href="#">MEC3457</a> Systems and control	<a href="#">MEC2405</a> Thermodynamics	Commerce listed major unit 3	Commerce listed major unit 4	
Year 4 Semester 1 February	<a href="#">MEC3455</a> Solid mechanics	<a href="#">MEC3451</a> Fluid mechanics 2	Commerce listed major 3 <sup>rd</sup> year level unit 5	Commerce listed major 3 <sup>rd</sup> year level unit 6	
Year 4 Semester 2 July	<a href="#">MEC3453</a> Dynamics 2	<a href="#">MEC3416</a> Machine design	Commerce listed major 3 <sup>rd</sup> year level unit 7	Capstone, consulting project, international experience or internship unit	
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">MEC4404</a> Professional Practice	<a href="#">MEC4408</a> Thermodynamics and heat transfer	Commerce listed major unit 8 or additional commerce unit from the Faculty of Business and Economics	
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">MEC4407</a> Design project	<a href="#">MEC4426</a> Computer-aided design	Commerce elective unit from the Faculty of Business and Economics	<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)

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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 February	Common first year			<a href="#">ACC1200</a> Accounting for managers or <a href="#">ACC1100</a> Introduction to financial accounting	
Year 1 Semester 2 July				<a href="#">ECC1000</a> Principles of microeconomics	
Year 2 Semester 1 February	<a href="#">ECE2071</a> Computer organisation and programming	<a href="#">ECE2131</a> Electrical circuits	<a href="#">ETC1000</a> Business and economic statistics	<a href="#">BTC1110</a> Commercial law	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
Year 2 Semester 2 July	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">TRC2201</a> Mechanics	<a href="#">MKC1200</a> Principles of marketing	<a href="#">MGC1010</a> Intro to management	
Year 3 Semester 1 February	<a href="#">TRC3200</a> Dynamical systems	<a href="#">MEC2402</a> Design methods	Commerce listed major unit 1	Commerce listed major unit 2	
Year 3 Semester 2 July	<a href="#">ECE4179</a> Neural networks and deep learning	<a href="#">ECE2072</a> Digital systems	Commerce listed major unit 3	Commerce listed major unit 4	
Year 4 Semester 1 February	<a href="#">ECE3161</a> Analogue electronics	<a href="#">TRC3500</a> Sensors and artificial perception	Commerce listed major 3 <sup>rd</sup> year level unit 5	Commerce listed major 3 <sup>rd</sup> year level unit 6	
Year 4 Semester 2 July	<a href="#">TRC3600</a> Modelling and control	<a href="#">ECE4078</a> Intelligent robotics	Commerce listed major 3 <sup>rd</sup> year level unit 7	Capstone, consulting project, international experience or internship unit	
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">TRC4800</a> Robotics	<a href="#">ECE4076</a> Computer vision	Commerce listed major unit 8 or additional commerce unit from the Faculty of Business and Economics	<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">ECE4191</a> Engineering integrated design	<a href="#">TRC4002</a> Professional Practice	Commerce elective unit from the Faculty of Business and Economics	

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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 February	Common first year			<a href="#">ACC1200</a> Accounting for managers or <a href="#">ACC1100</a> Introduction to financial accounting	
Year 1 Semester 2 July				<a href="#">ECC1000</a> Principles of microeconomics	
Year 2 Semester 1 February	<a href="#">ECE2071</a> Computer organisation and programming	<a href="#">ECE2131</a> Electrical circuits	<a href="#">ETC1000</a> Business and economic statistics	<a href="#">BTC1110</a> Commercial law	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
Year 2 Semester 2 July	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">TRC2201</a> Mechanics	<a href="#">MKC1200</a> Principles of marketing	<a href="#">MGC1010</a> Intro to management	
Year 3 Semester 1 February	<a href="#">TRC3200</a> Dynamical systems	<a href="#">MEC2402</a> Design methods	Commerce listed major unit 1	Commerce listed major unit 2	
Year 3 Semester 2 July	<a href="#">TRC4802</a> Thermo-fluids and power systems	<a href="#">ECE2072</a> Digital systems	Commerce listed major unit 3	Commerce listed major unit 4	
Year 4 Semester 1 February	<a href="#">ECE3161</a> Analogue electronics	<a href="#">TRC3500</a> Sensors and artificial perception	Commerce listed major 3 <sup>rd</sup> year level unit 5	Commerce listed major 3 <sup>rd</sup> year level unit 6	
Year 4 Semester 2 July	<a href="#">TRC3600</a> Modelling and control	<a href="#">TRC4902</a> Mechatronics and manufacturing	Commerce listed major 3 <sup>rd</sup> year level unit 7	Capstone, consulting project, international experience or internship unit	
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">TRC4800</a> Robotics	<a href="#">TRC4200</a> Engineering cyber-physical systems	Commerce listed major unit 8 or additional commerce unit from the Faculty of Business and Economics	<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">TRC4407</a> Automation design project	<a href="#">TRC4002</a> Professional Practice	Commerce elective unit from the Faculty of Business and Economics	

#### Note:

- 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](#).

## Course progression map for 2021 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 - Software Engineering

		Bachelor of Software Engineering (Honours)		Bachelor of Commerce	
Year 1 Semester 1 February	Common first year			ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting	
Year 1 Semester 2 July				ECC1000 Principles of microeconomics	
Year 2 Semester 1 February	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 ENG1001 Engineering design: Lighter, faster, stronger
Year 2 Semester 2 July	FIT2004 Algorithms and data structures	FIT2101 Software engineering process and management	MKC1200 Principles of Marketing	MGC1010 Introduction to Management	
Year 3 Semester 1 February	FIT3159 Computer architecture	FIT2099 Object oriented design and implementation	Commerce listed major unit 1	Commerce listed major unit 2	
Year 3 Semester 2 July	FIT2107 Software quality and testing	FIT2100 Operating systems	Commerce listed major unit 3	Commerce listed major unit 4	
Year 4 Semester 1 February	FIT3170 Software engineering practice (12 points)	FIT3077 Software engineering: architecture and design	Commerce listed major 3 <sup>rd</sup> year level unit 5	Commerce listed major 3 <sup>rd</sup> year level unit 6	
Year 4 Semester 2 July		FIT3171 Databases	Commerce listed major 3 <sup>rd</sup> year level unit 7	Capstone, consulting project, international experience or internship unit	
Year 5 Semester 1 February	FIT4002 Software engineering industry experience studio project (12 points)	FIT4003 Software engineering research project Replace with FIT4701 from 2023	FIT4165 Computer networks	Commerce listed major unit 8 or additional commerce unit from the Faculty of Business and Economics	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July		Replace with FIT4702 from 2023	Level 4 or 5 software engineering core elective	Commerce elective unit from the Faculty of Business and Economics	

#### Note:

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