

Course progression map for 2019 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 and is subject to updates. 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

L3002 Bachelor of Laws (Honours) and Bachelor of Engineering (Honours)

Specialisation - Aerospace engineering

	Bachelor of Laws (Honours)		Bachelor of Aerospace Engineering (Honours)		Overload
YEAR 1 Semester 1	LAW1111 Foundations of law	ENG1003 Engineering mobile apps <i>or</i> ENG1005 Engineering mathematics	ENG1001 Engineering design: Lighter, faster, stronger <i>or</i> ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics <i>or</i> ENG1060 Computing for engineers	
YEAR 1 Semester 2	LAW1112 Public law and statutory interpretation	ENG1003 Engineering mobile apps <i>or</i> ENG1005 Engineering mathematics	ENG1002 Engineering design: cleaner, safer, smarter <i>or</i> ENG1001 Engineering design: Lighter, faster, stronger	Engineering elective <i>or</i> ENG1060 Computing for engineers (if not taken in Semester 1)	
YEAR 2 Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	MAE2401 Aircraft structures 1 <i>Replace with MEC2403 from 2023</i>	If two foundation units are required then overload is required for PHS1001 Foundation physics
YEAR 2 Semester 2	LAW2102 Contract B	LAW2111 Constitutional law	LAW1113 Torts	MAE2402 Thermodynamics and heat transfer <i>Unit title change from 2021</i>	
YEAR 3 Semester 1	LAW3112 Corporations law	LAW3111 Equity	ENG2005 Advanced engineering mathematics	MAE2412 Aerospace design <i>Replace with MEC2402 from 2023</i>	
YEAR 3 Semester 2	LAW3402 Property B	Commercial law elective	MAE2404 Aerodynamics 1	MAE2505 Aerospace dynamics	Law elective
YEAR 4 Semester 1	Law elective	Law elective	MAE3401 Aerodynamics 2	MAE3404 Flight vehicle dynamics	Law elective
YEAR 4 Semester 2	LAW4331 Administrative law	LAW4170 Trusts	MAE3408 Aerospace control	MAE3405 Flight vehicle propulsion <i>Unit title change from 2022</i>	
YEAR 5 Semester 1	Law elective	Law elective	MAE3456 Aerospace computational mechanics <i>Replace with MEC3456 from 2023</i>	MAE4416 Orbital mechanics and spaceflight dynamics	
YEAR 5 Semester 2	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	MAE3411 Aerospace structural mechanics	MAE4410 Flight vehicle design	
YEAR 6 Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	MEC4401 Final year project <i>Replace with ENG4701 from 2021/22</i>	MAE4404 Aerospace practices <i>Replace with MEC4404 from 2023</i>	ENG0001 Continuous Professional Development (0 credit points)
YEAR 6 Semester 2	Law research project elective	Law elective	MEC4402 Final year – Thesis <i>Replace with ENG4702 from 2022</i>	MAE4426 Finite element analysis and composite materials	

Note:

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L3002 Bachelor of Laws (Honours) and Bachelor of Engineering (Honours)

Specialisation - Chemical engineering

	Bachelor of Laws (Honours)		Bachelor of Chemical Engineering (Honours)		Overload
YEAR 1 Semester 1	LAW1111 Foundations of law	ENG1003 Engineering mobile apps <i>or</i> ENG1005 Engineering mathematics	ENG1001 Engineering design: Lighter, faster, stronger <i>or</i> ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics <i>or</i> ENG1060 Computing for engineers	
YEAR 1 Semester 2	LAW1112 Public law and statutory interpretation	ENG1003 Engineering mobile apps <i>or</i> ENG1005 Engineering mathematics	ENG1002 Engineering design: cleaner, safer, smarter <i>or</i> ENG1001 Engineering design: Lighter, faster, stronger	Engineering elective <i>or</i> ENG1060 Computing for engineers (if not taken in Semester 1)	
YEAR 2 Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	CHM1011 Chemistry 1 <i>or</i> CHM1051 Chemistry 1 advanced	If two foundation units are required then overload is required for PHS1001 Foundation physics
YEAR 2 Semester 2	LAW2102 Contract B	LAW2111 Constitutional law	LAW1113 Torts	CHE2161 Mechanics of fluids	
YEAR 3 Semester 1	LAW3112 Corporations law	LAW3111 Equity	CHE2164 Thermodynamics 1	ENG2005 Advanced engineering mathematics	
YEAR 3 Semester 2	LAW3402 Property B	Commercial law elective	CHE2162 Materials and energy balances	CHE2163 Heat and mass transfer	Law elective
YEAR 4 Semester 1	Law elective	Law elective	CHE3161 Chemistry and chemical thermodynamics	CHE3165 Separation processes	Law elective
YEAR 4 Semester 2	LAW4331 Administrative law	LAW4170 Trusts	CHE3162 Process control	CHE3164 Reaction engineering	
YEAR 5 Semester 1	Law elective	Law elective	CHE4161 Engineers in society	CHE3167 Transport phenomena and numerical methods	
YEAR 5 Semester 2	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	CHE4170 Design project (12 points)		
YEAR 6 Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	CHE4180 Chemical engineering project <small>Replace with ENG4701. See footnote</small>	CHE4162 Particle technology	ENG0001 Continuous Professional Development (0 credit points)
YEAR 6 Semester 2	Law research project elective	Law elective	ENG4702 Final year project B <small>See footnote</small>	CHE3166 Process design	

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.

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L3002 Bachelor of Laws (Honours) and Bachelor of Engineering (Honours)

Specialisation - Civil engineering

	Bachelor of Laws (Honours)		Bachelor of Civil Engineering (Honours)		Overload
YEAR 1 Semester 1	LAW1111 Foundations of law	ENG1003 Engineering mobile apps <i>or</i> ENG1005 Engineering mathematics	ENG1001 Engineering design: Lighter, faster, stronger <i>or</i> ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics <i>or</i> ENG1060 Computing for engineers	
YEAR 1 Semester 2	LAW1112 Public law and statutory interpretation	ENG1003 Engineering mobile apps <i>or</i> ENG1005 Engineering mathematics	ENG1002 Engineering design: cleaner, safer, smarter <i>or</i> ENG1001 Engineering design: Lighter, faster, stronger	Engineering elective <i>or</i> ENG1060 Computing for engineers (if not taken in Semester 1)	
YEAR 2 Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	CIV2206 Structural mechanics	If two foundation units are required then overload is required for PHS1001 Foundation physics
YEAR 2 Semester 2	LAW2102 Contract B	LAW2111 Constitutional law	LAW2102 Contract B	ENG2005 Advanced engineering mathematics	
YEAR 3 Semester 1	LAW3112 Corporations law	LAW3111 Equity	CIV2225 Design of steel and timber structures <i>Replace with CIV2235 from 2021</i>	CIV2263 Water systems	
YEAR 3 Semester 2	LAW3402 Property B	Commercial law elective	CIV2242 Geomechanics 1	CIV2282 Transport and traffic engineering <i>Sem 1 offering from 2021</i>	Law elective
YEAR 4 Semester 1	Law elective	Law elective	CIV3248 Groundwater and environmental geomechanics	CIV3284 Design of concrete and masonry structures <i>Replace with CIV3294 from 2022</i>	Law elective
YEAR 4 Semester 2	LAW4331 Administrative law	LAW4170 Trusts	CIV3247 Geomechanics 2	CIV3204 Engineering investigation <i>See footnote</i>	
YEAR 5 Semester 1	Law elective	Law elective	CIV3285 Engineering hydrology	CIV4286 Project management for civil engineers	
YEAR 5 Semester 2	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	CIV3221 Building structures and technology	CIV4288 Water treatment	
YEAR 6 Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	CIV4210 Project A <i>Replace with ENG4701 from 2022. See footnote.</i>	CIV4280 Bridge design and assessment	ENG0001 Continuous Professional Development (0 credit points)
YEAR 6 Semester 2	Law research project elective	Law elective	CIV4287 Road engineering <i>Replace with ENG4702 from 2022. See footnote.</i>	CIV4212 Civil and environmental engineering practice	

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.
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L3002 Bachelor of Laws (Honours) and Bachelor of Engineering (Honours)

Specialisation - Electrical and computer systems engineering

	Bachelor of Laws (Honours)		Bachelor of Electrical and Computer Systems Engineering (Honours)		Overload
YEAR 1 Semester 1	LAW1111 Foundations of law	ENG1003 Engineering mobile apps <i>or</i> ENG1005 Engineering mathematics	ENG1001 Engineering design: Lighter, faster, stronger <i>or</i> ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics <i>or</i> ENG1060 Computing for engineers	
YEAR 1 Semester 2	LAW1112 Public law and statutory interpretation	ENG1003 Engineering mobile apps <i>or</i> ENG1005 Engineering mathematics	ENG1002 Engineering design: cleaner, safer, smarter <i>or</i> ENG1001 Engineering design: Lighter, faster, stronger	Engineering elective <i>or</i> ENG1060 Computing for engineers (if not taken in Semester 1)	
YEAR 2 Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	ENG2005 Advanced engineering mathematics	If two foundation units are required then overload is required for PHS1001 Foundation physics
YEAR 2 Semester 2	LAW2102 Contract B	LAW2111 Constitutional law	LAW1113 Torts	ECE2191 Probability models in engineering	
YEAR 3 Semester 1	LAW3112 Corporations law	LAW3111 Equity	ECE2071 Computer organisation and programming	ECE2131 Electrical circuits	
YEAR 3 Semester 2	LAW3402 Property B	Commercial law elective	ECE2111 Signals and systems	ECE2072 Digital systems	Law elective
YEAR 4 Semester 1	Law elective	Law elective	ECE3073 Computer systems	ECE3141 Information and networks	Law elective
YEAR 4 Semester 2	LAW4331 Administrative law	LAW4170 Trusts	ECE3121 Engineering electromagnetics <i>Replace ECE3121 with ECE3122 in 2024</i>	ECE4132 Control system design	
YEAR 5 Semester 1	Law elective	Law elective	ECE3051 Electrical energy systems	ECE3161 Analogue electronics	
YEAR 5 Semester 2	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	ECE3091 Engineering design <i>Replace with ECE4191 from 2022</i>	Level 4 or 5 ECE-coded core elective	
YEAR 6 Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	ECE4094 Project A <i>Replace with ENG4701 from 2022</i>	Level 4 or 5 ECE-coded core elective	ENG0001 Continuous Professional Development (0 credit points)
YEAR 6 Semester 2	Law research project elective	Law elective	ECE4095 Project B <i>Replace with ENG4702 from 2022</i>	ECE4099 Professional practice	

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Specialisation - Materials engineering

	Bachelor of Laws (Honours)		Bachelor of Materials Engineering (Honours)		Overload
YEAR 1 Semester 1	LAW1111 Foundations of law	ENG1003 Engineering mobile apps <i>or</i> ENG1005 Engineering mathematics	ENG1001 Engineering design: Lighter, faster, stronger <i>or</i> ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics <i>or</i> ENG1060 Computing for engineers	
YEAR 1 Semester 2	LAW1112 Public law and statutory interpretation	ENG1003 Engineering mobile apps <i>or</i> ENG1005 Engineering mathematics	ENG1002 Engineering design: cleaner, safer, smarter <i>or</i> ENG1001 Engineering design: Lighter, faster, stronger	Engineering elective <i>or</i> ENG1060 Computing for engineers (if not taken in Semester 1)	
YEAR 2 Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	MTE2541 Crystal structures, thermodynamics and phase equilibria <i>See footnote 1</i>	If two foundation units are required then overload is required for PHS1001 Foundation physics
YEAR 2 Semester 2	LAW2102 Contract B	LAW2111 Constitutional law	LAW1113 Torts	ENG2005 Advanced engineering maths	
YEAR 3 Semester 1	LAW3112 Corporations law	LAW3111 Equity	MTE2544 Functional materials <i>Replace with MTE2202 from 2021 (Semester 2 offering)</i>	MTE2546 Mechanics of materials <i>Replace with MTE2103 from 2021.</i>	
YEAR 3 Semester 2	LAW3402 Property B	Commercial law elective	MTE2542 Microstructural development <i>Replace with MTE2102 from 2021 (Semester 1 offering)</i>	MTE2545 Polymers and ceramics 1 <i>See footnote 2</i>	Law elective
YEAR 4 Semester 1	Law elective	Law elective	MTE3541 Materials durability <i>Replace with MTE3103 from 2022.</i>	MTE3542 Microstructural design in structural materials <i>Replace with MTE3102 from 2022</i>	Law elective
YEAR 4 Semester 2	LAW4331 Administrative law	LAW4170 Trusts	MTE3545 Functional materials and devices <i>Replace with MTE3202 from 2022.</i>	MTE3546 Polymers and ceramics 2 <i>Replace with MTE3203 from 2022. See footnote 2</i>	
YEAR 5 Semester 1	Law elective	Law elective	MTE3543 Microstructure to applications: The mechanics of materials <i>See footnote 3</i>	MTE4572 Polymer and composite processing and engineering <i>See footnote 3</i>	
YEAR 5 Semester 2	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	MTE3547 Materials characterisation and modelling <i>See footnote 1</i>	Level 4 or 5 MTE-coded materials engineering core elective	
YEAR 6 Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	MTE4525 Project 1 <i>Replace with ENG4701 from 2022</i>	MTE4571 Materials engineering design and practice <i>See footnote 3</i>	ENG0001 Continuous Professional Development (0 credit points)
YEAR 6 Semester 2	Law research project elective	Law elective	MTE4526 Project 2 <i>Replace with ENG4702 from 2022</i>	MTE4573 Processing and engineering of metals and ceramics <i>See footnote 3</i>	

. Note:

- MTE2101 and MTE3101 replaces MTE2541 and MTE3547 in combination. If you have completed MTE2541 prior to 2021, you must complete MTE3547 (last offering 2021). Otherwise, complete MTE2101 and MTE3101 as a combination.
- MTE2201 and MTE3203 replaces MTE2545 and MTE3546 in combination. If you have completed MTE2545 prior to 2021, you must complete MTE3546 (last offering 2021). Otherwise, complete MTE2201 and MTE3203 as a combination.
- 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 Laws		Bachelor of Mechanical Engineering (Honours)		Overload
YEAR 1 Semester 1	LAW1111 Foundations of law	ENG1003 Engineering mobile apps <i>or</i> ENG1005 Engineering mathematics	ENG1001 Engineering design: Lighter, faster, stronger <i>or</i> ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics <i>or</i> ENG1060 Computing for engineers	
YEAR 1 Semester 2	LAW1112 Public law and statutory interpretation	ENG1003 Engineering mobile apps <i>or</i> ENG1005 Engineering mathematics	ENG1002 Engineering design: cleaner, safer, smarter <i>or</i> ENG1001 Engineering design: Lighter, faster, stronger	Engineering elective <i>or</i> ENG1060 Computing for engineers (if not taken in Semester 1)	
YEAR 2 Semester 1	LAW2101 Contract A	LAW1114 Criminal law 1	LAW2112 Property A	MEC2403 Mechanics of materials	If two foundation units are required then overload is required for PHS1001 Foundation physics
YEAR 2 Semester 2	LAW2102 Contract B	LAW2111 Constitutional law	LAW1113 Torts	ENG2005 Advanced engineering mathematics	
YEAR 3 Semester 1	LAW3112 Corporations law	LAW3111 Equity	MEC2402 Engineering design 1 <small>Unit title change in 2021</small>	MEC2401 Dynamics 1	
YEAR 3 Semester 2	LAW3402 Property B	Commercial Law elective	MEC2404 Mechanics of fluids	MEC2405 Thermodynamics	Law elective
YEAR 4 Semester 1	Law elective	Law elective	MEC3451 Fluid mechanics 2	MEC3456 Engineering computational mechanics	Law elective
YEAR 4 Semester 2	LAW4331 Administrative law	LAW4170 Trusts	MEC3457 Systems and control	MEC3416 Engineering design 2 <small>Unit title change in 2021</small>	
YEAR 5 Semester 1	Law elective	Law elective	MEC3455 Solid mechanics	MEC4404 Professional practice	
YEAR 5 Semester 2	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	MEC3453 Dynamics 2	MEC4407 Engineering design 3 <small>Unit title change from 2021</small>	
YEAR 6 Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	MEC4401 Final year project <small>Replace with ENG4701 from 2022</small>	MEC4408 Thermodynamics and heat transfer	ENG0001 Continuous Professional Development (0 credit points)
YEAR 6 Semester 2	Law research project elective	Law elective	MEC4402 Final year project – Thesis <small>Replace with ENG4702 from 2022</small>	MEC4426 Computer-aided design	

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