MONASH University

Course progression map for 2020 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. This 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 Engineering (Honours)		Overload
Year 1 Semester 1	LAW1111 Foundations of law	ENG1003 Engineering mobile apps **or** ENG1005 Engineering mathematics	ENG1001 Engineering design: Lighter, faster, stronger **or** ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics **or** ENG1060 Computing for engineers	
Year 1 Semester 2	LAW1112 Public law and statutory interpretation	ENG1003 Engineering mobile apps **or** ENG1005 Engineering mathematics	ENG1002 Engineering design: cleaner, safer, smarter **or** ENG1001 Engineering design: Lighter, faster, stronger	First Year engineering elective **or** 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	MAE2402 Thermodynamics and gas dynamics	
Year 3 Semester 1	LAW3112 Corporations law	LAW3111 Equity	MAE2401 Aerospace structures and materials Replace with MEC2403 from 2023	MAE2412 Aerospace design Replace with MEC2402 from 2023	
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 Aerospace propulsion	
Year 5 Semester 1	Law elective	Law elective	MAE3456 Aerospace computational mechanics Replace with MEC3456 from 2023	MAE4416 Orbital mechanics and spaceflight dynamics	
Year 5 Semester 2	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	MAE4410 Flight vehicle design	MAE3411 Aerospace structural mechanics	
Year 6 Semester 1	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	MAE4404 Aerospace practices and airworthiness Replace with MEC4404 from 2023	ENG4701 Final year project A	ENG0001 Continuous professional development (0 credit points)
Year 6 Semester 2	Law research elective	Law elective	MAE4426 Finite element analysis and composite structures	ENG4702 Final year project B	

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

Specialisation – Chemical engineering

	Bachelor of Laws (Honours)			Bachelor of Engineering (Honours)		Overload
Year 1 Semester 1	LAW1111 Foundations of law	ENG1003 Engineering mobile apps **or** ENG1005 Engineering mathematics	ENG1001 Engineering design: Lighter, faster, stronger **or** ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics **or** ENG1060 Computing for engineers		
Year 1 Semester 2	LAW1112 Public law and statutory interpretation	ENG1003 Engineering mobile apps **or** ENG1005 Engineering mathematics	ENG1002 Engineering design: cleaner, safer, smarter **or** ENG1001 Engineering design: Lighter, faster, stronger	First Year engineering elective **or** ENG1060 Computing for engineers (If not completed in Semester 1)		
Year 2 Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	CHM1011 Chemistry 1 **or** 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	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	CHE4170 Design project (12 points)			
Year 6 Semester 1	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	ENG4701 Final year project A	CHE4162 Particle technology		ENG0001 Continuous professional development (0 credit points)
Year 6 Semester 2	Law research elective	Law elective	ENG4702 Final year project B	CHE3166 Process design		

- CHE4164 and CHE4165 are integrated industrial project units are in place of the final year project units ENG4701 and ENG4702 and for select students only. 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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L3002 Bachelor of Laws (Honours) and Bachelor of Engineering (Honours)

Specialisation – Civil engineering

	Bachelor of Laws (Honours)		Bachelor of Engineering (Honours)		Overload
Year 1 Semester 1	LAW1111 Foundations of law	ENG1003 Engineering mobile apps **or** ENG1005 Engineering mathematics	ENG1001 Engineering design: Lighter, faster, stronger **or** ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics **or** ENG1060 Computing for engineers	
Year 1 Semester 2	LAW1112 Public law and statutory interpretation	ENG1003 Engineering mobile apps **or** ENG1005 Engineering mathematics	ENG1002 Engineering design: cleaner, safer, smarter **or** ENG1001 Engineering design: Lighter, faster, stronger	First Year engineering elective **or** ENG1060 Computing for engineers (If not completed 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	LAW1113 Torts	ENG2005 Advanced engineering mathematics	
Year 3 Semester 1	LAW3112 Corporations law	LAW3111 Equity	CIV2282 Transport and traffic engineering	CIV2263 Water systems	
Year 3 Semester 2	LAW3402 Property B	Commercial law elective	CIV2242 Geomechanics 1	CIV2235 Structural materials	Law elective
Year 4 Semester 1	Law elective	Law elective	CIV3248 Groundwater and environmental geomechanics	CIV3294 Structural design	Law elective
Year 4 Semester 2	LAW4331 Administrative law	LAW4170 Trusts	CIV3247 Geomechanics 2	CIV3283 Road engineering	
Year 5 Semester 1	Law elective	Law elective	CIV3285 Engineering hydrology	CIV4286 Project management for civil engineers	
Year 5 Semester 2	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	CIV3221 Building structures and technology	CIV4288 Water treatment	
Year 6 Semester 1	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	ENG4701 Final year project A	CIV4280 Bridge design and assessment	ENG0001 Continuous professional development (0 credit points)
Year 6 Semester 2	Law research elective	Law elective	ENG4702 Final year project B	CIV4212 Civil and environmental engineering practice	

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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 Engineering (Honours)		Overload
Year 1 Semester 1	LAW1111 Foundations of law	ENG1003 Engineering mobile apps **or** ENG1005 Engineering mathematics	ENG1001 Engineering design: Lighter, faster, stronger **or** ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics **or** ENG1060 Computing for engineers	
Year 1 Semester 2	LAW1112 Public law and statutory interpretation	ENG1003 Engineering mobile apps **or** ENG1005 Engineering mathematics	ENG1002 Engineering design: cleaner, safer, smarter **or** ENG1001 Engineering design: Lighter, faster, stronger	First Year engineering elective **or** ENG1060 Computing for engineers (If not completed 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 Replace ECE3121 with ECE3122 in 2024	ECE4132 Control system design	
Year 5 Semester 1	Law elective	Law elective	ECE3051 Electrical energy systems	ECE3161 Analogue electronics	
Year 5 Semester 2	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	ECE4191 Engineering integrated design	Level 4 or 5 ECE-coded core elective*	
Year 6 Semester 1	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	ENG4701 Final year project A	Level 4 or 5 ECE-coded core elective*	ENG0001 Continuous professional development (0 credit points)
Year 6 Semester 2	Law research elective	Law elective	ENG4702 Final year project B	ECE4099 Professional practice	

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

Specialisation – Materials engineering

	Bachelor of Laws (Honours)		Bachelor of Engineering (Honours)		Overload
Year 1 Semester 1	LAW1111 Foundations of law	ENG1003 Engineering mobile apps **or** ENG1005 Engineering mathematics	ENG1001 Engineering design: Lighter, faster, stronger **or** ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics **or** ENG1060 Computing for engineers	
Year 1 Semester 2	LAW1112 Public law and statutory interpretation	ENG1003 Engineering mobile apps **or** ENG1005 Engineering mathematics	ENG1002 Engineering design: cleaner, safer, smarter **or** ENG1001 Engineering design: Lighter, faster, stronger	First Year engineering elective **or** ENG1060 Computing for engineers (If not completed in Semester 1)	
Year 2 Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	MTE2101 Atomic-scale structure 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 maths	
Year 3 Semester 1	LAW3112 Corporations law	LAW3111 Equity	MTE2102 Phase equilibria and phase transformations	MTE2103 Mechanical properties of materials	
Year 3 Semester 2	LAW3402 Property B	Commercial law elective	MTE2202 Functional materials 1	MTE2201 Polymers	Law elective
Year 4 Semester 1	Law elective	Law elective	MTE3103 Materials life cycle	MTE3102 Plasticity of metals and alloys	Law elective
Year 4 Semester 2	LAW4331 Administrative law	LAW4170 Trusts	MTE3202 Functional materials 2	MTE3203 Introduction to ceramics: Properties, processing and applications	
Year 5 Semester 1	Law elective	Law elective	MTE4102 Advanced materials processing and manufacturing	MTE3101 Materials in a complex world 1: People, projects and data	
Year 5 Semester 2	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	Level 4 or 5 MTE-coded materials engineering core elective	MTE3201 Materials in a complex world 2: Characterisation, identification and selection	
Year 6 Semester 1	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	ENG4701 Final year project A	MTE4101 Integrated design project	ENG0001 Continuous professional development (0 credit points)
Year 6 Semester 2	Law research elective	Law elective	ENG4702 Final year project B	MTE4201 Materials in a complex world 3: Impact in society	

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

Specialisation – Mechanical engineering

	Bachelor of Laws (Honours)		Bachelor of Engineering (Honours)		Overload
Year 1 Semester 1	LAW1111 Foundations of law	ENG1003 Engineering mobile apps **or** ENG1005 Engineering mathematics	ENG1001 Engineering design: Lighter, faster, stronger **or** ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics **or** ENG1060 Computing for engineers	
Year 1 Semester 2	LAW1112 Public law and statutory interpretation	ENG1003 Engineering mobile apps **or** ENG1005 Engineering mathematics	ENG1002 Engineering design: cleaner, safer, smarter **or** ENG1001 Engineering design: Lighter, faster, stronger	First Year engineering elective **or** ENG1060 Computing for engineers (If not completed in Semester 1)	
Year 2 Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	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 Design methods	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 Machine design	
Year 5 Semester 1	Law elective	Law elective	MEC3455 Solid mechanics	MEC4404 Professional practice	
Year 5 Semester 2	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	MEC3453 Dynamics 2	MEC4407 Design project	
Year 6 Semester 1	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	ENG4701 Final year project A	MEC4408 Thermodynamics and heat transfer	ENG0001 Continuous professional development (0 credit points)
Year 6 Semester 2	Law research elective	Law elective	ENG4702 Final year project B	MEC4426 Computer-aided design	

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