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Course progression map for 2016 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 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. Last update: 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)		
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	Engineering elective *or* ENG1060 Computing for engineers (if not taken in Sem 1)	
YEAR 2 Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	MAE2401 Aircraft structures 1 Replace with MEC2403 from 2023	If two foundation units are required then overload is required for PHS1080 Foundation physics *Replaced by PHS1001 from 2018*
YEAR 2 Semester 2	LAW2102 Contract B	LAW2111 Constitutional law	LAW1113 Torts	MAE2402 Thermodynamics and heat transfer Unit title change from 2021	
YEAR 3 Semester 1	LAW3112 Corporations law	LAW3111 Equity	ENG2005 Advanced engineering mathematics	MEC2401 Dynamics 1	
YEAR 3 Semester 2	LAW3402 Property B	Commercial law elective	MAE2404 Aerodynamics 1	MAE2405 Aircraft performance (if not taken at stage 1) *or* Engineering elective	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 Unit title change from 2021	
YEAR 5 Semester 1	Law elective	Law elective	MAE3456 Aerospace computational mechanics Replace with MEC3456 from 2023	MAE4404 Aerospace practices Replace with MEC4404 from 2023	
YEAR 5 Semester 2	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	MAE3426 Computer aided design	MAE4408 Damage tolerance and airworthiness	
YEAR 6 Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	MEC4401 Final year project Replace with ENG4701 from 2021/22	MAE4411 Aircraft structures 2	
YEAR 6 Semester 2	Law research project elective	Law elective	MEC4402 Final year – thesis Replace with ENG4702 from 2022	MAE4410 Flight vehicle design	

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Course progression map for 2016 commencing students

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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)		
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	Engineering elective _or_ ENG1060 Computing for engineers (if not taken in Sem 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 PHS1080 Foundation physics _Replaced by PHS1001 from 2018_
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	CHE2164 Thermodynamics 1	CHE2161 Mechanics of fluids	
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 Replace with ENG4701 from 2021. _See note_	CHE4162 Particle technology	
YEAR 6 Semester 2	Law research project elective	Law elective	ENG4702 Final year project B _See footnote_	CHE3166 Process design	

From 2021, **ENG4701 and ENG4702 will replace CHE4180**, therefore extending the final year project over two semesters. Please seek course advice if needed.

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Course progression map for 2016 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 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. Last update: 18 December 2023

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

Specialisation - Civil engineering

	Bachelor of Laws (Honours)		Bachelor of Civil Engineering (Honours)		
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	Engineering elective *or* ENG1060 Computing for engineers (if not taken in Sem 1)	
YEAR 2 Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	CIV2206 Mechanics of solids *Unit title change from 2019*	If two foundation units are required then overload is required for PHS1080 Foundation physics *Replaced by PHS1001 from 2018*
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 *Replace with CIV2235 from 2021*	CIV2263 Water systems	
YEAR 3 Semester 2	LAW3402 Property B	Commercial law elective	CIV2242 Geomechanics 1	CIV2282 Transport and traffic engineering	Law elective
YEAR 4 Semester 1	Law elective	Law elective	CIV3248 Groundwater and environmental geomechanics	CIV3284 Design of concrete and masonry structures *Replace with CIV3294 from 2022*	Law elective
YEAR 4 Semester 2	LAW4331 Administrative law	LAW4170 Trusts	CIV3247 Geomechanics 2	CIV3204 Engineering investigation *See footnote*	
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 *Replace with ENG4701 from 2022. See footnote*	CIV4280 Bridge design and assessment	
YEAR 6 Semester 2	Law research project elective	Law elective	CIV4287 Road Engineering *Replace with ENG4702 from 2022. See footnote*	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.
- 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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Course progression map for 2016 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 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. Last update: 18 December 2023

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)		
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	Engineering elective *or* ENG1060 Computing for engineers (if not taken in Sem 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 PHS1080 Foundation physics *Replaced by PHS1001 from 2018*
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	ECE3161 Analogue electronics	Law elective
YEAR 4 Semester 2	LAW4331 Administrative law	LAW4170 Trusts	ECE3051 Electrical energy systems*	ECE3091 Engineering design *Replace with ECE4191 from 2022. See footnote*	
YEAR 5 Semester 1	Law elective	Law elective	ECE3141 Information and networks	Level 4 or 5 ECE-coded core elective	
YEAR 5 Semester 2	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	ECE3121 Engineering electromagnetics *Replace ECE3121 with ECE3122 in 2024*	ECE4132 Control system design**	
YEAR 6 Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	ECE4094 Project A *Replace with ENG4701 from 2021/22*	Level 4 or 5 ECE-coded core elective	
YEAR 6 Semester 2	Law research project elective	Law elective	ECE4095 Project B *Replace with ENG4702 from 2022*	ECE4099 Professional practice	

* 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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Course progression map for 2016 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 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. Last update: 18 December 2023

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

Specialisation - Materials engineering

	Bachelor of Laws (Honours)			Bachelor of Materials Engineering (Honours)		
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	ENG1001 Engineering design: Lighter, faster, stronger _or_ ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics _or_ ENG1060 Computing for engineers	
YEAR 2 Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	MTE2541 Crystal structures, thermodynamics and phase equilibria See footnote 1	If two foundation units are required then overload is required for PHS1080 Foundation physics _Replaced by PHS1001 from 2018_
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 Replace with MTE2202 from 2021 (Semester 2 offering)	MTE2546 Mechanics of materials Replace with MTE2103 from 2021.	
YEAR 3 Semester 2	LAW3402 Property B	Commercial law elective	MTE2542 Microstructural development Replace with MTE2102 from 2021 (Semester 1 offering)	MTE2545 Polymers and ceramics 1 See footnote 2	Law elective
YEAR 4 Semester 1	Law elective	Law elective	MTE3541 Materials durability Replace with MTE3103 from 2022.	MTE3542 Microstructural design in structural materials Replace with MTE3102 from 2022.	Law elective
YEAR 4 Semester 2	LAW4331 Administrative law	LAW4170 Trusts	MTE3545 Functional materials and devices Replace with MTE2201 from 2021.	MTE3546 Polymers and ceramics 2 Replace with MTE3203 from 2022. See footnote 2	
YEAR 5 Semester 1	Law elective	Law elective	MTE3543 Microstructure to applications: The mechanics of materials See footnote 3	MTE4572 Polymer and composite processing and engineering See footnote 3	
YEAR 5 Semester 2	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	MTE3547 Materials characterisation and modelling See footnote 1	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 Replace with ENG4701 from 2021/22	MTE4571 Materials engineering design and practice See footnote 3	
YEAR 6 Semester 2	Law research project elective	Law elective	MTE4526 Project 2 Replace with ENG4702 from 2022	MTE4573 Processing and engineering of metals and ceramics See footnote 3	

Note:
1. **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.
2. **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.
3. You must complete the **(MTE3543+MTE4571+MTE4572+MTE4573)** combination (last offerings 2022). Otherwise, complete **(MTE3201+MTE4101+MTE4102+MTE4201)** combination.
· 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.
· All Bachelor of Engineering (Honours) students 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.
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Source: _Monash University 2016 Handbook_ –http://www.monash.edu.au/pubs/2016handbooks/maps/map-l3002.pdf
CRICOS Provider Number: 00008C

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

Specialisation - Mechanical engineering

	Bachelor of Laws (Honours)			Bachelor of Mechanical Engineering (Honours)		
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	ENG1001 Engineering design: Lighter, faster, stronger *or* ENG1002 Engineering design: Cleaner, safer, smarter	ENG1090 Foundation mathematics *or* ENG1060 Computing for engineers	
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 PHS1080 Foundation physics *Replaced by PHS1001 from 2018*
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 *Unit title change in 2021*	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 *Unit title change in 2021*	
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 *Unit title change from 2021*	
YEAR 6 Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	MEC4401 Final year project *Replace with ENG4701 from 2021/22*	MEC4408 Thermodynamics and heat transfer	
YEAR 6 Semester 2	Law research project elective	Law elective	MEC4402 Final year project – Thesis *Replace with ENG4702 from 2022*	MEC4426 Computer-aided design	

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