

# 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. It does not substitute for the list of required units as described in the course 'Requirements' section of the [Handbook](#).

## 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 <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 Sem 1)	
YEAR 2 Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	MAE2401 Aircraft structures 1	If two foundation units are required then overload is required for PHS1080 Foundation physics <small>* This unit is replaced by PHS1001 Foundation physics from 2018</small>
YEAR 2 Semester 2	LAW2102 Contract B	LAW2111 Constitutional law	LAW1113 Torts	MAE2402 Thermodynamics and heat transfer	
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) <i>or</i> 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	
YEAR 5 Semester 1	Law elective	Law elective	MAE3456 Aerospace computational mechanics	MAE4404 Aerospace Practices	
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	MAE4411 Aircraft structures 2	MEC4401 Final year project	
YEAR 6 Semester 2	Law research project elective	Law elective	MAE4410 Flight vehicle design	MEC4402 Final year – thesis	

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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 <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 Sem 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 PHS1080 Foundation physics <small>* This unit is replaced by PHS1001 Foundation physics from 2018</small>
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	CHE4162 Particle technology	CHE3166 Process design	
YEAR 6 Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	CHE4180 Chemical engineering project (12 points)		
YEAR 6 Semester 2	Law research project elective	Law elective	CHE4170 Design project (12 points)		

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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)		
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 Sem 1)	
YEAR 2 Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	CIV2206 Mechanics of solids <small>*This unit title changes in 2019 to Structural mechanics</small>	If two foundation units are required then overload is required for PHS1080 Foundation physics <small>* This unit is replaced by PHS1001 Foundation physics from 2018</small>
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	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	Law elective
YEAR 4 Semester 2	LAW4331 Administrative law	LAW4170 Trusts	CIV3247 Geomechanics 2	CIV3204 Engineering investigation	
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	CIV4287 Road engineering	
YEAR 6 Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	CIV4210 Project A	CIV4280 Bridge design and assessment	
YEAR 6 Semester 2	Law research project elective	Law elective	CIV4212 Civil engineering practice 4	CIV4288 Water treatment	

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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)		
<b>YEAR 1</b> 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	
<b>YEAR 1</b> 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 Sem 1)	
<b>YEAR 2</b> 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 <i>* This unit is replaced by PHS1001 Foundation physics from 2018</i>
<b>YEAR 2</b> Semester 2	LAW2102 Contract B	LAW2111 Constitutional law	LAW1113 Torts	ECE2191 Probability models in engineering	
<b>YEAR 3</b> Semester 1	LAW3112 Corporations law	LAW3111 Equity	ECE2071 Computer organisation and programming	ECE2131 Electrical circuits	
<b>YEAR 3</b> Semester 2	LAW3402 Property B	Commercial law elective	ECE2111 Signals and systems	ECE2072 Digital systems	Law elective
<b>YEAR 4</b> Semester 1	Law elective	Law elective	ECE3073 Computer systems	ECE3161 Analogue electronics	Law elective
<b>YEAR 4</b> Semester 2	LAW4331 Administrative law	LAW4170 Trusts	ECE3051 Electrical energy systems*	ECE3091 Engineering design	
<b>YEAR 5</b> Semester 1	Law elective	Law elective	ECE3141 Information and networks	ECE4099 Professional practice	
<b>YEAR 5</b> Semester 2	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	ECE3121 Engineering electromagnetics	ECE4132 Control system design**	
<b>YEAR 6</b> Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	ECE4094 Project A	ECSE technical elective at level 4	
<b>YEAR 6</b> Semester 2	Law research project elective	Law elective	ECE4095 Project B	ECSE technical elective at level 4	

\* This unit replaces ECE4151 Electrical energy systems

\*\* This unit replaces ECE3132 Control systems design

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

### Specialisation - Materials engineering

	Bachelor of Laws (Honours)		Bachelor of Materials Engineering (Honours)		
<b>YEAR 1</b> 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	
<b>YEAR 1</b> Semester 2	LAW1112 Public law and statutory interpretation	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	
<b>YEAR 2</b> Semester 1	LAW2101 Contract A	LAW2112 Property A	LAW1114 Criminal law 1	MTE2541 Crystal structures, thermodynamics and phase equilibria	If two foundation units are required then overload is required for PHS1080 Foundation physics <small>* This unit is replaced by PHS1001 Foundation physics from 2018</small>
<b>YEAR 2</b> Semester 2	LAW2102 Contract B	LAW2111 Constitutional law	LAW1113 Torts	ENG2005 Advanced engineering maths	
<b>YEAR 3</b> Semester 1	LAW3112 Corporations law	LAW3111 Equity	MTE2544 Functional materials	MTE2546 Mechanics of materials	
<b>YEAR 3</b> Semester 2	LAW3402 Property B	Commercial law elective	MTE2542 Microstructural development	MTE2545 Polymers and ceramics 1	Law elective
<b>YEAR 4</b> Semester 1	Law elective	Law elective	MTE2544 Functional materials	MTE3542 Microstructural design in structural materials	Law elective
<b>YEAR 4</b> Semester 2	LAW4331 Administrative law	LAW4170 Trusts	MTE3545 Functional materials and devices	MTE3546 Polymers and ceramics 2	
<b>YEAR 5</b> Semester 1	Law elective	Law elective	MTE3543 Microstructure to applications: The mechanics of materials	MTE4572 Polymer and composite processing and engineering	
<b>YEAR 5</b> Semester 2	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	MTE3547 Materials characterisation and modelling	Materials engineering technical elective	
<b>YEAR 6</b> Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	MTE4525 Project 1	MTE4571 Materials engineering design and practice	
<b>YEAR 6</b> Semester 2	Law research project elective	Law elective	MTE4573 Processing and engineering of metals and ceramics	MTE4526 Project 2	

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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)		
<b>YEAR 1</b> 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	
<b>YEAR 1</b> Semester 2	LAW1112 Public law and statutory interpretation	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	
<b>YEAR 2</b> 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 <i>* This unit is replaced by PHS1001 Foundation physics from 2018</i>
<b>YEAR 2</b> Semester 2	LAW2102 Contract B	LAW2111 Constitutional law	LAW1113 Torts	ENG2005 Advanced engineering mathematics	
<b>YEAR 3</b> Semester 1	LAW3112 Corporations law	LAW3111 Equity	MEC2402 Engineering design 1	MEC2401 Dynamics 1	
<b>YEAR 3</b> Semester 2	LAW3402 Property B	Commercial Law elective	MEC2404 Mechanics of fluids	MEC2405 Thermodynamics	Law elective
<b>YEAR 4</b> Semester 1	Law elective	Law elective	MEC3451 Fluid mechanics 2	MEC3456 Engineering computational mechanics	Law elective
<b>YEAR 4</b> Semester 2	LAW4331 Administrative law	LAW4170 Trusts	MEC3457 Systems and control	MEC3416 Engineering design 2	
<b>YEAR 5</b> Semester 1	Law elective	Law elective	MEC3455 Solid mechanics	MEC4404 Professional Practice	
<b>YEAR 5</b> Semester 2	LAW4303 Litigation and dispute resolution	LAW4309 Lawyers' ethics in practice	MEC3453 Dynamics 2	MEC4407 Engineering design 3	
<b>YEAR 6</b> Semester 1	LAW4332 Criminal law and procedure 2	LAW4323 Evidence	MEC4401 Final year project	MEC4408 Thermodynamics and heat transfer	
<b>YEAR 6</b> Semester 2	Law research project elective	Law elective	MEC4402 Final year project – Thesis	MEC4426 Computer-aided design	

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