Course progression map for 2022 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. Please note that the map is subject to updates. Update version: 22 September 2021

E3012 Bachelor of Engineering (Honours) and Bachelor of Design

Engineering Common First Year

If no foundation units are required:

Year	Sem	Units				
1	Sem 1 Feb	ENG1013 Engineering smart systems	COL1001 Collaborative design studio 1 (12 cps)		AHT1101 Introduction to the history and theory of art, design and architecture	OHS1000 Intro to art & design health and safety (0 cps)
	Sem 2 July	ENG1012 Engineering design	IDN1002 Industrial design studio 2 (12 cps)		TDN1002 Design and the avant-garde	
2	Sem 1 Feb	DWG1201 Drawing 1	TDN2001 Sociologies of design	IDN2001 Industrial design studio 3 (12 cps)		
	Sem 2 July	ENG1011 Engineering methods	ENG1005 Engineering mathematics *Required: ENG1090 **	ENG1014 Engineering numerical analysis *Corequisite: ENG1005*	First Year engineering technical elective	

Tip: You can swap the semesters for ENG1003 and the Engineering elective or swap ENG1002 with ENG1001.

If you need to enrol in foundation physics and maths*:

Year	Sem	Units				
1	Sem 1 Feb	ENG1090 Foundation mathematics *	COL1001 Collaborative design studio 1 (12 cps)		AHT1101 Introduction to the history and theory of art, design and architecture	OHS1000 Intro to art & design health and safety (0 cps)
	Sem 2 July	ENG1012 Engineering design	IDN1002 Industrial design studio 2 (12 cps)		TDN1002 Design and the avant-garde	
2	Sem 1 Feb	DWG1201 Drawing 1	TDN2001 Sociologies of design	IDN2001 Industrial design studio 3 (12 cps)		PHS1001 Foundation physics *
	Sem 2 July	ENG1011 Engineering methods	ENG1005 Engineering mathematics *Required: ENG1090 **	ENG1014 Engineering numerical analysis *Corequisite: ENG1005*	ENG1013 Engineering smart systems	

If you require two foundation units, you will need to take the remaining core unit PHS1001 Foundation physics 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 these units.

If you need to enrol in foundation maths:

Year	Sem	Units				
1	Sem 1 Feb	ENG1090 Foundation mathematics *	COL1001 Collaborative design studio 1 (12 cps)		AHT1101 Introduction to the history and theory of art, design and architecture	OHS1000 Intro to art & design health and safety (0 cps)
	Sem 2 July	ENG1012 Engineering design	IDN1002 Industrial design studio 2 (12 cps)		TDN1002 Design and the avant-garde	
2	Sem 1 Feb	DWG1201 Drawing 1	TDN2001 Sociologies of design	IDN2001 Industrial design studio 3 (12 cps)		
	Sem 2 July	ENG1011 Engineering methods	ENG1005 Engineering mathematics *Required: ENG1090 **	ENG1014 Engineering numerical analysis *Corequisite: ENG1005*	ENG1013 Engineering smart systems	

Tip: You can swap ENG1002 with ENG1001.

If you need to enrol in foundation physics:

Year	Sem	Units				
1	Sem 1 Feb	PHS1001 Foundation physics *	COL1001 Collaborative design studio 1 (12 cps)		AHT1101 Introduction to the history and theory of art, design and architecture	OHS1000 Intro to art & design health and safety (0 cps)
	Sem 2 July	ENG1012 Engineering design	IDN1002 Industrial design studio 2 (12 cps)		TDN1002 Design and the avant-garde	
2	Sem 1 Feb	DWG1201 Drawing 1	TDN2001 Sociologies of design	IDN2001 Industrial design studio 3 (12 cps)		
	Sem 2 July	ENG1011 Engineering methods	ENG1005 Engineering Mathematics *Required: ENG1090 **	ENG1014 Engineering numerical analysis *Corequisite: ENG1005*	ENG1013 Engineering smart systems	

Tip: You can swap ENG1002 with ENG1001.

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.

For enrolment advice, please speak with a course adviser in your specialisation. Refer to the Course Advisers webpage if you are in Clayton.

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E3012 Bachelor of Engineering (Honours) and Bachelor of Design

Engineering specialisations - Mechanical engineering
Design specialisation - Industrial design

Year 1 Semester 1 February	Engineering Common First Year units	COL1001 Collaborative design studio 1		AHT1101 Introduction to the history and theory of art, design and architecture	OHS1000 Introduction to art and design health and safety (0 pts)
Year 1 Semester 2 July		IDN1002 Industrial design studio 2		TDN1002 Design and the avant-garde	
Year 2 Semester 1 February	DWG1201 Drawing 1	TDN2001 Sociologies of design	IDN2001 Industrial design studio 3		If two foundation units are required then overload is required for PHS1001 Foundation physics
Year 2 Semester 2 July	Engineering Common First Year units				
Year 3 Semester 1 February	MEC2402 Design methods	MEC2403 Mechanics of materials	MEC2401 Dynamics 1	TDN3001 Research for design	
Year 3 Semester 2 July	MEC2405 Thermodynamics	ENG2005 Advanced engineering mathematics	MEC2404 Mechanics of fluids	MEC3416 Machine design	
Year 4 Semester 1 February	MEC3455 Solid Mechanics	MEC3456 Engineering computational analysis	IDN3001 Industrial design studio 4		
Year 4 Semester 2 July	MEC3457 Systems and control	TDN3002 Design strategy and professional practice	IDN3002 Industrial design studio 5		
Year 5 Semester 1 February	ENG4701 Final year project A	MEC4408 Thermodynamics and heat transfer	MEC3451 Fluid Mechanics 2	MEC4404 Professional Practice	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	MEC4426 Computer-aided design	MEC3453 Dynamics 2	MEC4407 Design project	

Mechanical engineering
Industrial design

NOTE:

- Engineering minors are not available in the Engineering double degree courses.
- 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.