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: 24 September 2021

E3012 Bachelor of Engineering (Honours) and Bachelor of Design

Common First Year engineering enrolment patterns

If no foundation units are required:

Year	Sem	Units				
1	1	ENG1003 Engineering mobile apps	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)
	2	ENG1002 Engineering design: cleaner, safer, smarter	IDN1002 Industrial design studio 2 (12 cps)		TDN1002 Design and the avant-garde	
2	1	DWG1201 Drawing 1	TDN2001 Sociologies of design	IDN2001 Industrial design studio 3 (12 cps)		
	2	ENG1001 Engineering design: lighter, faster, stronger	ENG1005 Engineering mathematics	ENG1060 Computing for engineers	First Year engineering 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*:

1	1	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)
	2	ENG1002 Engineering design: cleaner, safer, smarter	IDN1002 Industrial design studio 2 (12 cps)		TDN1002 Design and the avant-garde	
2	1	DWG1201 Drawing 1	TDN2001 Sociologies of design	IDN2001 Industrial design studio 3 (12 cps)		PHS1001 Foundation physics
	2	ENG1001 Engineering design: lighter, faster, stronger	ENG1005 Engineering mathematics	ENG1060 Computing for engineers	ENG1003 Engineering mobile apps	

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:

1	1	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)
	2	ENG1002 Engineering design: cleaner, safer, smarter	IDN1002 Industrial design studio 2 (12 cps)		TDN1002 Design and the avant-garde	
2	1	DWG1201 Drawing 1	TDN2001 Sociologies of design	IDN2001 Industrial design studio 3 (12 cps)		
	2	ENG1001 Engineering design: lighter, faster, stronger	ENG1005 Engineering mathematics	ENG1060 Computing for engineers	ENG1003 Engineering mobile apps	

Tip: You can swap ENG1002 with ENG1001.

If you need to enrol in foundation physics:

1	1	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)
	2	ENG1002 Engineering design: cleaner, safer, smarter	IDN1002 Industrial design studio 2 (12 cps)		TDN1002 Design and the avant-garde	
2	1	DWG1201 Drawing 1	TDN2001 Sociologies of design	IDN2001 Industrial design studio 3 (12 cps)		
	2	ENG1001 Engineering design: lighter, faster, stronger	ENG1005 Engineering mathematics	ENG1060 Computing for engineers	ENG1003 Engineering mobile apps	

Tip: You can swap ENG1002 with ENG1001.

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E3012 Bachelor of Engineering (Honours) and Bachelor of Design

Specialisations - Mechanical engineering and Industrial design

YEAR 1 Semester 1	COMMON FIRST YEAR ENGINEERING 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		IDN1002 Industrial design studio 2		TDN1002 Design and the avant-garde	
YEAR 2 Semester 1	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	COMMON FIRST YEAR ENGINEERING UNIT				
YEAR 3 Semester 1	MEC2402 Design methods	MEC2403 Mechanics of materials	MEC2401 Dynamics 1	TDN3001 Research for design	
YEAR 3 Semester 2	MEC2405 Thermodynamics	ENG2005 Advanced engineering mathematics	MEC2404 Mechanics of fluids	MEC3416 Machine design	
YEAR 4 Semester 1	MEC3455 Solid Mechanics	MEC3456 Engineering computational analysis	IDN3001 Industrial design studio 4		
YEAR 4 Semester 2	MEC3457 Systems and control	TDN3002 Design strategy and professional practice	IDN3002 Industrial design studio 5		
YEAR 5 Semester 1	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	ENG4702 Final year project B	MEC4426 Computer-aided design	MEC3453 Dynamics 2	MEC4407 Design project	

Mechanical engineering
Industrial design

Note:

- 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.