



## Course progression maps for 2024 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. Updated on 16 January 2024

### E3012 Bachelor of Engineering (Honours) and Bachelor of Design

#### Engineering Common First Year

You do not have VCE Units 3 & 4 Specialist Maths >30 study score <u>and</u> VCE Units 3 & 4 Physics >25 study score: You must enrol in Foundation mathematics (ENG1090) and Foundation physics (PHS1001)					
Year	Sem	Units			
1	Sem 1 Feb	<a href="#">ENG1090</a> Foundation mathematics *	<a href="#">DGN1000</a> Design studio 1 (12 cps)	<a href="#">BLK1000</a> Indigenous Australian creative practice and ways of knowing	<a href="#">OHS1000</a> Intro to art & design health and safety (0 cps)
	Sem 2 July	<a href="#">ENG1012</a> Engineering design	<a href="#">IDN1002</a> Industrial design studio 2 (12 cps)	<a href="#">TDN1002</a> Design and the avant-garde	
2	Sem 1 Feb	<a href="#">DWG1201</a> Drawing: Introduction	<a href="#">TDN2001</a> Sociologies of design	<a href="#">IDN2001</a> Industrial design studio 3 (12 cps)	<a href="#">PHS1001</a> Foundation physics *
	Sem 2 July	<a href="#">ENG1011</a> Engineering methods	<a href="#">ENG1005</a> Engineering mathematics <i>Required: ENG1090 *</i>	<a href="#">ENG1014</a> Engineering numerical analysis <i>Corequisite: ENG1005</i>	<a href="#">ENG1013</a> 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.					

You do not have VCE Units 3 & 4 Specialist Maths >30 study score: You must enrol in Foundation mathematics (ENG1090)					
1	Sem 1 Feb	<a href="#">ENG1090</a> Foundation mathematics *	<a href="#">DGN1000</a> Design studio 1 (12 cps)	<a href="#">BLK1000</a> Indigenous Australian creative practice and ways of knowing	<a href="#">OHS1000</a> Intro to art & design health and safety (0 cps)
	Sem 2 July	<a href="#">ENG1012</a> Engineering design	<a href="#">IDN1002</a> Industrial design studio 2 (12 cps)	<a href="#">TDN1002</a> Design and the avant-garde	
2	Sem 1 Feb	<a href="#">DWG1201</a> Drawing: Introduction	<a href="#">TDN2001</a> Sociologies of design	<a href="#">IDN2001</a> Industrial design studio 3 (12 cps)	
	Sem 2 July	<a href="#">ENG1011</a> Engineering methods	<a href="#">ENG1005</a> Engineering mathematics <i>Required: ENG1090 *</i>	<a href="#">ENG1014</a> Engineering numerical analysis <i>Corequisite: ENG1005</i>	<a href="#">ENG1013</a> Engineering smart systems
Tip: You can swap ENG1002 with ENG1001.					

You do not have VCE Units 3 & 4 Physics >25 study score: You must enrol in Foundation physics (PHS1001)					
1	Sem 1 Feb	<a href="#">PHS1001</a> Foundation physics *	<a href="#">DGN1000</a> Design studio 1 (12 cps)	<a href="#">BLK1000</a> Indigenous Australian creative practice and ways of knowing	<a href="#">OHS1000</a> Intro to art & design health and safety (0 cps)
	Sem 2 July	<a href="#">ENG1012</a> Engineering design	<a href="#">IDN1002</a> Industrial design studio 2 (12 cps)	<a href="#">TDN1002</a> Design and the avant-garde	
2	Sem 1 Feb	<a href="#">DWG1201</a> Drawing: Introduction	<a href="#">TDN2001</a> Sociologies of design	<a href="#">IDN2001</a> Industrial design studio 3 (12 cps)	
	Sem 2 July	<a href="#">ENG1011</a> Engineering methods	<a href="#">ENG1005</a> Engineering Mathematics <i>Required: ENG1090 *</i>	<a href="#">ENG1014</a> Engineering numerical analysis <i>Corequisite: ENG1005</i>	<a href="#">ENG1013</a> Engineering smart systems
Tip: You can swap ENG1002 with ENG1001.					

You have completed VCE Units 3 & 4 Physics >25 study score <u>and</u> VCE Units 3 and 4 Specialist Maths >30 study score: No foundation units are required					
1	Sem 1 Feb	<a href="#">ENG1013</a> Engineering smart systems	<a href="#">DGN1000</a> Design studio 1 (12 cps)	<a href="#">BLK1000</a> Indigenous Australian creative practice and ways of knowing	<a href="#">OHS1000</a> Intro to art & design health and safety (0 cps)
	Sem 2 July	<a href="#">ENG1012</a> Engineering design	<a href="#">IDN1002</a> Industrial design studio 2 (12 cps)	<a href="#">TDN1002</a> Design and the avant-garde	
2	Sem 1 Feb	<a href="#">DWG1201</a> Drawing: Introduction	<a href="#">TDN2001</a> Sociologies of design	<a href="#">IDN2001</a> Industrial design studio 3 (12 cps)	
	Sem 2 July	<a href="#">ENG1011</a> Engineering methods	<a href="#">ENG1005</a> Engineering mathematics <i>Required: ENG1090 *</i>	<a href="#">ENG1014</a> Engineering numerical analysis <i>Corequisite: ENG1005</i>	<a href="#">First Year engineering breadth study</a>
Tip: You can swap the semesters for ENG1003 and the Engineering elective or 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](#).

Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.

## Course progression maps for 2024 commencing students

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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	<a href="#">DGN1000</a> Design studio 1		<a href="#">BLK1000</a> Indigenous Australian creative practice and ways of knowing	<a href="#">OHS1000</a> Introduction to art and design health and safety (0 pts)
Year 1 Semester 2 July		<a href="#">IDN1002</a> Industrial design studio 2		<a href="#">TDN1002</a> Design and the avant-garde	
Year 2 Semester 1 February	<a href="#">DWG1201</a> Drawing: Introduction	<a href="#">TDN2001</a> Sociologies of design	<a href="#">IDN2001</a> Industrial design studio 3		If two foundation units are required then overload is required for <a href="#">PHS1001</a> Foundation physics
Year 2 Semester 2 July	Engineering Common First Year units				
Year 3 Semester 1 February	<a href="#">MEC2402</a> Design methods	<a href="#">MEC2403</a> Mechanics of materials	<a href="#">MEC2401</a> Dynamics 1	<a href="#">TDN3001</a> Research for design	
Year 3 Semester 2 July	<a href="#">MEC2405</a> Thermodynamics	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">MEC2404</a> Mechanics of fluids	<a href="#">MEC3416</a> Machine design	
Year 4 Semester 1 February	<a href="#">MEC3455</a> Solid Mechanics	<a href="#">MEC3456</a> Engineering computational analysis	<a href="#">IDN3001</a> Industrial design studio 4		
Year 4 Semester 2 July	<a href="#">MEC3457</a> Systems and control	<a href="#">TDN3002</a> Design strategy and professional practice	<a href="#">IDN3002</a> Industrial design studio 5		
Year 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">MEC4408</a> Thermodynamics and heat transfer	<a href="#">MEC3451</a> Fluid Mechanics 2	<a href="#">Complete one Professional Practice domain unit</a>	<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">MEC4426</a> Computer-aided design	<a href="#">MEC3453</a> Dynamics 2	<a href="#">MEC4407</a> 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](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
- For enrolment advice, please refer to the [Course advisers webpage](#).