

## 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: 26 August 2021

### E3004 Bachelor of Engineering (Honours) and Bachelor of Biomedical Science

Common first year

If no foundation units are required:					
Year	Period	Units			
1	Sem 1 Feb	<a href="#">ENG1001</a> Engineering design: lighter, faster, stronger	<a href="#">ENG1005</a> Engineering mathematics <i>Required: ENG1090 *</i>	<a href="#">ENG1060</a> Computing for engineers <i>Corequisite: ENG1005</i>	<a href="#">BMS1011</a> Biomedical chemistry
	Sem 2 July	<a href="#">ENG1002</a> Engineering design: cleaner, safer, smarter	<a href="#">ENG1003</a> Engineering mobile apps	<a href="#">First Year engineering technical elective</a>	<a href="#">BMS1062</a> Molecular biology

If you need to enrol in foundation physics and maths*:					
1	Sem 1 Feb	<a href="#">ENG1002</a> Engineering design: cleaner, safer, smarter	<a href="#">PHS1001</a> Foundation physics <i>Corequisite: ENG1090 *</i>	<a href="#">ENG1090</a> Foundation mathematics	<a href="#">BMS1011</a> Biomedical chemistry
	Sem 2 July	<a href="#">ENG1001</a> Engineering design: lighter, faster, stronger	<a href="#">ENG1005</a> Engineering mathematics <i>Required: ENG1090 *</i>	<a href="#">ENG1060</a> Computing for engineers <i>Corequisite: ENG1005</i>	<a href="#">BMS1062</a> Molecular biology

\* If you require two foundation units, you will need to take the remaining core unit ENG1003 Engineering mobile apps in semester one of year two as an overload, and increase the total credit points needed for the double by 6 points

If you need to enrol in foundation maths:					
1	Sem 1 Feb	<a href="#">ENG1002</a> Engineering design: cleaner, safer, smarter	<a href="#">ENG1003</a> Engineering mobile apps	<a href="#">ENG1090</a> Foundation mathematics	<a href="#">BMS1011</a> Biomedical chemistry
	Sem 2 July	<a href="#">ENG1001</a> Engineering design: lighter, faster, stronger	<a href="#">ENG1005</a> Engineering mathematics <i>Required: ENG1090 *</i>	<a href="#">ENG1060</a> Computing for engineers <i>Corequisite: ENG1005</i>	<a href="#">BMS1062</a> Molecular biology

If you need to enrol in foundation physics:					
1	Sem 1 Feb	<a href="#">ENG1002</a> Engineering design: cleaner, safer, smarter	<a href="#">ENG1003</a> Engineering mobile apps	<a href="#">PHS1001</a> Foundation physics <i>Required: ENG1090 *</i>	<a href="#">BMS1011</a> Biomedical chemistry
	Sem 2 July	<a href="#">ENG1001</a> Engineering design: lighter, faster, stronger	<a href="#">ENG1005</a> Engineering mathematics <i>Required: ENG1090 *</i>	<a href="#">ENG1060</a> Computing for engineers <i>Corequisite: ENG1005</i>	<a href="#">BMS1062</a> Molecular biology

Note:

- \* Foundation units: You enrol in the foundation units ENG1090 and/or PHS1001 if you have not completed the Australian Year 12 equivalent to Specialist mathematics and/or Physics.
- 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](#).

## 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: 26 August 2021

### E3004 Bachelor of Engineering (Honours) and Bachelor of Biomedical Science Specialisation - Chemical Engineering

	Bachelor of Chemical Engineering (Honours)		Bachelor of Biomedical Science		
YEAR 1 Semester 1 February	<b>Common first year</b>			<a href="#">BMS1011</a> Biomedical chemistry	
YEAR 1 Semester 2 July				<a href="#">BMS1062</a> Molecular biology	
YEAR 2 Semester 1 February	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">CHM1011</a> Chemistry 1 or <a href="#">CHM1051</a> Chemistry 1 advanced	<a href="#">BMS1031</a> Medical biophysics	<a href="#">BMS1021</a> Cells, tissues and organisms	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
YEAR 2 Semester 2 July	<a href="#">CHE2162</a> Material and energy balances	<a href="#">CHE2161</a> Mechanics of fluids	<a href="#">BMS1042</a> Public health and preventive medicine	<a href="#">BMS1052</a> Human neurobiology	
YEAR 3 Semester 1 February	<a href="#">CHE2164</a> Thermodynamics 1	<a href="#">BMS2021</a> Human molecular biology	<a href="#">BMS2011</a> Structure of the human body	<a href="#">BMS2031</a> Body systems	
YEAR 3 Semester 2 July	<a href="#">CHE2163</a> Heat and mass transfer	<a href="#">BMS2042</a> Human genetics	<a href="#">BMS2052</a> Microbes in health and diseases	<a href="#">BMS2062</a> Introduction to bioinformatics	
YEAR 4 Semester 1 February	<a href="#">CHE3161</a> Chemistry and chemical thermodynamics	<a href="#">CHE3165</a> Separation processes	<a href="#">BMS3031</a> Molecular mechanisms of disease		<a href="#">CHE3167</a> Transport phenomena and numerical methods - You overload in this semester if you enrol in CHE4164
YEAR 4 Semester 2 July	<a href="#">CHE3166</a> Process design	<a href="#">CHE3164</a> Reaction engineering	<a href="#">BMS3052</a> Biomedical basis and epidemiology of human disease		
YEAR 5 Semester 1 February	<a href="#">CHE4164</a> Integrated industrial project (18 points) For selected students taking a period of integrated industrial training in the first semester of their final year. This will replace the three core units below [ENG4701, ENG4702 and CHE4161]			<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)	
YEAR 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">CHE4162</a> Particle technology	<a href="#">CHE4161</a> Engineer in society	<a href="#">CHE3167</a> Transport phenomena and numerical methods	
<b>OR</b>					
YEAR 5 Semester 2 July	<a href="#">ENG4702</a> Final year project B	<a href="#">CHE4170</a> Design project (12 points)		<a href="#">CHE3162</a> Process control	

Note:

- CHM1011 or CHM1051 - If you have completed either unit as a First Year technical elective, you must replace the core with another unit from the chemical engineering technical electives list.
- CHE4164 - Depending on placement location, you may have to overload a semester or extend an additional semester in order to complete the course.
- You should not overload in the semester of undertaking CHE4170
- 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.
- Engineering minors are not available in the double degrees.
- 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](#).

## 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: 26 August 2021

### E3004 Bachelor of Engineering (Honours) and Bachelor of Biomedical Science Specialisation - Civil Engineering

	Bachelor of Civil Engineering (Honours)		Bachelor of Biomedical Science		
YEAR 1 Semester 1 February	<b>Common first year</b>			<a href="#">BMS1011</a> Biomedical chemistry	
YEAR 1 Semester 2 July				<a href="#">BMS1062</a> Molecular biology	
YEAR 2 Semester 1 February	<a href="#">CIV2282</a> Transport and traffic engineering	<a href="#">CIV2206</a> Structural mechanics	<a href="#">BMS1031</a> Medical biophysics	<a href="#">BMS1021</a> Cells, tissues and organisms	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
YEAR 2 Semester 2 July	<a href="#">CIV2242</a> Geomechanics 1	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">BMS1042</a> Public health and preventive medicine	<a href="#">BMS1052</a> Human neurobiology	
YEAR 3 Semester 1 February	<a href="#">CIV2263</a> Water systems	<a href="#">BMS2021</a> Human molecular biology	<a href="#">BMS2011</a> Structure of the human body	<a href="#">BMS2031</a> Body systems	
YEAR 3 Semester 2 July	<a href="#">CIV2235</a> Structural materials	<a href="#">BMS2042</a> Human genetics	<a href="#">BMS2052</a> Microbes in health and diseases	<a href="#">BMS2062</a> Introduction to bioinformatics	
YEAR 4 Semester 1 February	<a href="#">CIV3248</a> Groundwater and environmental geomechanics	<a href="#">CIV3294</a> Structural design	<a href="#">BMS3031</a> Molecular mechanisms of disease		
YEAR 4 Semester 2 July	<a href="#">CIV3247</a> Geomechanics 2	<a href="#">CIV3204</a> Engineering investigation	<a href="#">BMS3052</a> Biomedical basis and epidemiology of human disease		
YEAR 5 Semester 1 February	<a href="#">CIV3285</a> Engineering hydrology	<a href="#">CIV4210</a> Project A	<a href="#">CIV4286</a> Project management for civil engineers	<a href="#">CIV4280</a> Bridge design and assessment	<a href="#">ENG0001</a> Continuous Professional Development (0 credit points)
YEAR 5 Semester 2 July	<a href="#">CIV3221</a> Building structures and technology	<a href="#">CIV4212</a> Civil and environmental engineering practice	<a href="#">CIV4287</a> Road engineering	<a href="#">CIV4288</a> Water treatment	

**Note:**

- 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.
- Engineering minors are not available in the double degrees.
- 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](#).

## 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: 26 August 2021

### E3004 Bachelor of Engineering (Honours) and Bachelor of Biomedical Science Specialisation - Electrical and Computer Systems Engineering

	Bachelor of Electrical and Computer Systems Engineering (Honours)		Bachelor of Biomedical Science		
YEAR 1 Semester 1 February	Common first year			<a href="#">BMS1011</a> Biomedical chemistry	
YEAR 1 Semester 2 July				<a href="#">BMS1062</a> Molecular biology	
YEAR 2 Semester 1 February	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">ECE2071</a> Computer organisation and programming	<a href="#">BMS1031</a> Medical biophysics	<a href="#">BMS1021</a> Cells, tissues and organisms	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
YEAR 2 Semester 2 July	<a href="#">ECE2191</a> Probability models in engineering	<a href="#">ECE2072</a> Digital systems	<a href="#">BMS1042</a> Public health and preventive medicine	<a href="#">BMS1052</a> Human neurobiology	
YEAR 3 Semester 1 February	<a href="#">ECE2131</a> Electrical circuits	<a href="#">BMS2021</a> Human molecular biology	<a href="#">BMS2011</a> Structure of the human body	<a href="#">BMS2031</a> Body systems	
YEAR 3 Semester 2 July	<a href="#">ECE2111</a> Signals and systems	<a href="#">BMS2042</a> Human genetics	<a href="#">BMS2052</a> Microbes in health and diseases	<a href="#">BMS2062</a> Introduction to bioinformatics	
YEAR 4 Semester 1 February	<a href="#">ECE3073</a> Computer systems	<a href="#">ECE3141</a> Information and networks	<a href="#">BMS3031</a> Molecular mechanisms of disease		
YEAR 4 Semester 2 July	<a href="#">ECE4132</a> Control system design	<a href="#">ECE3121</a> Engineering electromagnetics	<a href="#">BMS3052</a> Biomedical basis and epidemiology of human disease		
YEAR 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">ECE3161</a> Analogue electronics	<a href="#">ECE3051</a> Electrical energy systems	<a href="#">ECSE technical elective at level 4</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="#">ECE4191</a> Engineering integrated design	<a href="#">ECE4099</a> Professional Practice	<a href="#">ECSE technical elective at level 4</a>	

Note:

- ECE2071 or ECE2072 - If you have completed either unit as a First Year technical elective, you must replace the core with another unit from the electrical and computer systems engineering technical electives list.
- 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.
- Engineering minors are not available in the double degrees.  
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](#).

## 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: 26 August 2021

### E3004 Bachelor of Engineering (Honours) and Bachelor of Biomedical Science Specialisation - Materials Engineering

	Bachelor of Materials Engineering (Honours)	Bachelor of Biomedical Science			
YEAR 1 Semester 1 February	<b>Common first year</b>				<a href="#">BMS1011</a> Biomedical chemistry
YEAR 1 Semester 2 July					<a href="#">BMS1062</a> Molecular biology
YEAR 2 Semester 1 February	<a href="#">MTE2101</a> Atomic- scale structure of materials	<a href="#">MTE2102</a> Phase equilibria and phase transformations	<a href="#">BMS1031</a> Medical biophysics	<a href="#">BMS1021</a> Cells, tissues and organisms	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
YEAR 2 Semester 2 July	<a href="#">MTE2202</a> Functional materials 1	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">BMS1042</a> Public health and preventive medicine	<a href="#">BMS1052</a> Human neurobiology	
YEAR 3 Semester 1 February	<a href="#">MTE2103</a> Mechanical properties of materials	<a href="#">BMS2021</a> Human molecular biology	<a href="#">BMS2011</a> Structure of the human body	<a href="#">BMS2031</a> Body systems	
YEAR 3 Semester 2 July	<a href="#">MTE2201</a> Polymers	<a href="#">BMS2042</a> Human genetics	<a href="#">BMS2052</a> Microbes in health and diseases	<a href="#">BMS2062</a> Introduction to bioinformatics	
YEAR 4 Semester 1 February	<a href="#">MTE3101</a> Materials in a complex world 1: Data and modelling	<a href="#">MTE3102</a> Structural materials	<a href="#">BMS3031</a> Molecular mechanisms of disease		
YEAR 4 Semester 2 July	<a href="#">MTE3201</a> Materials in a complex world 2: Characterisation, identification and selection	<a href="#">MTE3202</a> Functional materials 2	<a href="#">BMS3052</a> Biomedical basis and epidemiology of human disease		
YEAR 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">MTE4101</a> Materials in a complex world 3: Design, build and create	<a href="#">MTE4102</a> Advanced materials processing and manufacturing	<a href="#">MTE3103</a> Materials life-cycle	<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="#">MTE4201</a> Materials in a complex world 4: Impact in society	<a href="#">Materials technical elective at level 4 or 5</a>	<a href="#">MTE3203</a> Ceramics	

**Note:**

- 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.
- Engineering minors are not available in the double degrees.
- 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](#).

## 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: 26 August 2021

### E3004 Bachelor of Engineering (Honours) and Bachelor of Biomedical Science Specialisation - Mechanical Engineering

	Bachelor of Mechanical Engineering (Honours)		Bachelor of Biomedical Science		
YEAR 1 Semester 1 February	<b>Common first year</b>			<a href="#">BMS1011</a> Biomedical chemistry	
YEAR 1 Semester 2 July				<a href="#">BMS1062</a> Molecular biology	
YEAR 2 Semester 1 February	<a href="#">MEC2403</a> Mechanics of materials	<a href="#">MEC2401</a> Dynamics 1	<a href="#">BMS1031</a> Medical biophysics	<a href="#">BMS1021</a> Cells, tissues and organisms	If two foundation units are required then overload is required for <a href="#">ENG1003</a> Engineering mobile apps
YEAR 2 Semester 2 July	<a href="#">MEC2404</a> Mechanics of fluids	<a href="#">ENG2005</a> Advanced engineering mathematics	<a href="#">BMS1042</a> Public health and preventive medicine	<a href="#">BMS1052</a> Human neurobiology	
YEAR 3 Semester 1 February	<a href="#">MEC2402</a> Design methods	<a href="#">BMS2021</a> Human molecular biology	<a href="#">BMS2011</a> Structure of the human body	<a href="#">BMS2031</a> Body systems	
YEAR 3 Semester 2 July	<a href="#">MEC2405</a> Thermodynamics	<a href="#">BMS2042</a> Human genetics	<a href="#">BMS2052</a> Microbes in health and diseases	<a href="#">BMS2062</a> Introduction to bioinformatics	
YEAR 4 Semester 1 February	<a href="#">MEC3451</a> Fluid mechanics 2	<a href="#">MEC3456</a> Engineering computational analysis	<a href="#">BMS3031</a> Molecular mechanisms of disease		
YEAR 4 Semester 2 July	<a href="#">MEC3416</a> Machine design	<a href="#">MEC3457</a> Systems and control	<a href="#">BMS3052</a> Biomedical basis and epidemiology of human disease		
YEAR 5 Semester 1 February	<a href="#">ENG4701</a> Final year project A	<a href="#">MEC4408</a> Thermodynamics and heat transfer	<a href="#">MEC3455</a> Solid mechanics	<a href="#">MEC4404</a> Professional practice	<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	

**Note:**

- [MEC2404](#) - If you have completed [MEC2404](#) as a First Year technical elective, you must replace the core with another unit from the mechanical engineering technical electives list.
- 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.
- Engineering minors are not available in the double degrees.
- 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](#).