## Course progression map for 2016 commencing students

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### E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

#### Specialisation - Aerospace Engineering

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1001 Engineering design: Lighter, faster, stronger or ENG1002 Engineering design: Cleaner, safer, smarter</td>
<td>ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics</td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
</tr>
<tr>
<td>Year 1 Semester 2</td>
<td>ENG1002 Engineering design: Cleaner, safer, smarter or ENG1001 Engineering design: Lighter, faster, stronger</td>
<td>ENG1005 Engineering mathematics or ENG1003 Engineering mobile apps</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG2006 Advanced engineering mathematics</td>
<td>MEC2401 Dynamics 1</td>
<td>ETC1000 Business and economic statistics</td>
</tr>
<tr>
<td>Year 2 Semester 2</td>
<td>MAE2404 Aerodynamics 1</td>
<td>MKC1200 Principles of marketing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAE2401 Aircraft structures 1</td>
<td>MAE3401 Aerodynamics 2</td>
<td>Commerce major</td>
</tr>
<tr>
<td>Year 3 Semester 2</td>
<td>MAE2402 Thermodynamics and heat transfer</td>
<td>MAE3405 Flight vehicle propulsion</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 1</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAE3456 Aerospace computational mechanics</td>
<td>MAE3404 Flight vehicle dynamics</td>
<td>Commerce major</td>
</tr>
<tr>
<td>Year 4 Semester 2</td>
<td>MAE3426 Computer-aided design</td>
<td>MAE3408 Aerospace control</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 1</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEC4401 Final year project</td>
<td>MAE4404 Aerospace practices</td>
<td>MAE4411 Aircraft structures 2</td>
</tr>
<tr>
<td>Year 5 Semester 2</td>
<td>MEC4402 Final year project – Thesis</td>
<td>MAE4410 Flight vehicle design</td>
</tr>
</tbody>
</table>

All Bachelor of Engineering (Honours) students are required to complete Continuous Professional Development (CPD) in order to graduate. For CPD advice, refer to the [CPD webpage](http://www.monash.edu.au/pubs/2016handbooks/maps/map-e3005.pdf).
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 and subject to updates. It should be used in conjunction with the requirements of the course as specified in the Handbook. The map is subject to updates. Last update: 18 October 2021

**E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce**

**Specialisation - Chemical Engineering**

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENG1001 Engineering design: Lighter, faster, stronger or ENG1002 Engineering design: Cleaner, safer, smarter</td>
<td>ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics</td>
<td>Foundation unit or ENG1080 Computing for engineers</td>
</tr>
<tr>
<td></td>
<td>ENG1002 Engineering design: Cleaner, safer, smarter or ENG1001 Engineering design: Lighter, faster, stronger</td>
<td>ENG1005 Engineering mathematics or ENG1003 Engineering mobile apps</td>
<td>Engineering elective or ENG1080 Computing for engineers (if not taken in Sem 1)</td>
</tr>
<tr>
<td></td>
<td>CHE2161 Mechanics of fluids (if not already completed at level one) or 6-point unit as directed by coordinator</td>
<td>CHM1011 Chemistry 1 (if not already completed at level one) or CHM1051 Chemistry T advanced</td>
<td>ETC1000 Business and economic statistics</td>
</tr>
<tr>
<td></td>
<td>CHE2162 Material and energy balances</td>
<td>ENG2005 Advanced engineering mathematics</td>
<td>BTC1110 Commercial law</td>
</tr>
</tbody>
</table>

**Note:**
- From 2021, ENG4701 and ENG4702 will replace the 12 credit points CHE4180, therefore extending the final year project over two semesters. Please seek course advice if needed.
- Depending on placement location, students who choose CHE4164 may have to overload a semester or extend an additional semester in order to complete their course requirement.
- Students should not overload in the semester of undertaking CHE4170.
- All Bachelor of Engineering (Honours) students are required to complete Continuous Professional Development (CPD) in order to graduate. For CPD advice, refer to the CPD webpage.
# Course progression map for 2016 commencing students

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**Bachelor of Engineering (Honours) and Bachelor of Commerce**

## Specialisation - Civil Engineering

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1001 Engineering design: Lighter, faster, stronger or ENG1002 Engineering design: Cleaner, safer, smarter</td>
<td>ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics</td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 Semester 2</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1002 Engineering design: Cleaner, safer, smarter or ENG1001 Engineering design: Lighter, faster, stronger</td>
<td>ENG1005 Engineering mathematics or ENG1003 Engineering mobile apps</td>
<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV2225 Design of steel and timber structures Replace with CIV2235 from 2021</td>
<td>CIV2206 Mechanics of solids Unit title change from 2019</td>
<td>ETC1000 Business and economic statistics</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 2</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV2224 Geomechanics 1</td>
<td>ENG2005 Advanced engineering mathematics</td>
<td>MKC1200 Principles of marketing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV3284 Design of concrete and masonry structures Replace with CIV3294 from 2022</td>
<td>CIV2263 Water systems</td>
<td>Commerce major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 2</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV3247 Geomechanics 2</td>
<td>CIV3204 Engineering investigation See footnote</td>
<td>Commerce major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 1</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV3285 Engineering hydrology</td>
<td>CIV3248 Groundwater and environmental geomechanics</td>
<td>Commerce major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 2</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV2282 Transport and traffic engineering</td>
<td>CIV3221 Building structures and technology</td>
<td>Commerce major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 1</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV4210 Project A Replace with ENG4701 from 2022 See footnote</td>
<td>CIV4280 Bridge design and assessment</td>
<td>CIV4286 Project management for civil engineers</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 2</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV4287 Road Engineering Replace with ENG4701 from 2022 See footnote</td>
<td>CIV4212 Civil and environmental engineering practice</td>
<td>CIV4288 Water treatment</td>
</tr>
</tbody>
</table>

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Note:

- FROM 2022: Following a recent advice by Engineers Australia, you must complete 12 CP of a final year project in order to meet professional accreditation requirements. Please seek course advice from the Student Services at the Faculty of Engineering.
- CIV4210 – If you are course-completing in 2022/S1, complete CIV4210 (for 6CP FYP) or CIV4211 (if undertaking 12CP FYP). Otherwise, replace CIV4210 with ENG4701 from 2022.
- CIV3204 – If you have not completed CIV3204 by 2021, replace CIV3204 with CIV3283 Road engineering from 2022.
- CIV4287 – If you have completed CIV3204 but not CIV4287 by 2021, replace CIV4287 with ENG4702 from 2022. CIV3283 is highly recommended to be taken as a level 3 civil engineering technical elective.
- 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](http://www.monash.edu.au/pubs/2016handbooks/maps/map-e3005.pdf).
Course progression map for 2016 commencing students

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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation - Electrical and Computer Systems Engineering

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Electrical and Computer Systems Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1001 Engineering design: Lighter, faster, stronger or ENG1002 Engineering design: Cleaner, safer, smarter</td>
<td>ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics</td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
</tr>
<tr>
<td>ENG1002 Engineering design: Cleaner, safer, smarter or ENG1001 Engineering design: Lighter, faster, stronger</td>
<td>ENG1005 Engineering mathematics or ENG1003 Engineering mobile apps</td>
<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 Semester 2</th>
<th>Bachelor of Electrical and Computer Systems Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG2005 Advanced engineering mathematics</td>
<td>ECE2071 Computer organisation and programming</td>
<td>ETC1000 Business and economic statistics</td>
</tr>
<tr>
<td>ECE2191 Probability models in engineering</td>
<td>ECE2072 Digital systems</td>
<td>MKC1200 Principles of marketing</td>
</tr>
<tr>
<td>ECE2111 Signals and systems</td>
<td>ECE3121 Engineering electromagnetics</td>
<td>MGC1010 Intro to management</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>Bachelor of Electrical and Computer Systems Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE3073 Computer systems</td>
<td>ECE2131 Electrical circuits</td>
<td>Commerce major</td>
</tr>
<tr>
<td>ECE3161 Analogue electronics</td>
<td>ECE3141 Information and networks</td>
<td>Commerce major – at level 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 2</th>
<th>Bachelor of Electrical and Computer Systems Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE3051 Electrical energy systems*</td>
<td>ECE3091 Engineering design Replace with ECE4191 from 2022. See footnote</td>
<td>Commerce major – at level 3</td>
</tr>
<tr>
<td>ECE4094 Project A Replace with ENG4101 from 2021/22</td>
<td>Level 4 or 5 ECE-coded core elective</td>
<td>Level 4 or 5 ECE-coded core elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>Bachelor of Electrical and Computer Systems Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE4095 Project B Replace with ENG4102 from 2022</td>
<td>ECE4099 Professional practice</td>
<td>ECE4132 Control system design**</td>
</tr>
<tr>
<td>ECE4191 from 2022</td>
<td>Level 4 or 5 ECE-coded core elective</td>
<td>Commerce elective</td>
</tr>
</tbody>
</table>

* This unit replaces ECE4151 Electrical energy systems
** This unit replaces ECE3132 Control systems design

ECE3091 – Replace with ECE4191 if you have not completed ECE3091 by 2021. ECE4191 should be undertaken in your final year of study by swapping placement on the course map with ECE4132 or the level 4 ECSE technical elective.
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CRICOS Provider Number: 00008C

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**E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce**

## Specialisation - Environmental Engineering

<table>
<thead>
<tr>
<th></th>
<th>Bachelor of Environmental Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 1</strong></td>
<td>ENG1001 Engineering design: Lighter, faster,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>stronger or ENG1002 Engineering design: Cleaner, safer, smarter</td>
<td>ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics</td>
</tr>
<tr>
<td></td>
<td>Foundation unit or ENG1060 Computing for</td>
<td></td>
</tr>
<tr>
<td></td>
<td>engineers</td>
<td>ACC1200 Accounting for managers or ACC1100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Introduction to financial accounting</td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td>ENG1002 Engineering design: Cleaner, safer,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>smarter or ENG1001 Engineering design: Lighter, faster, stronger</td>
<td>ENG1005 Engineering mathematics or ENG1003 Engineering mobile apps</td>
</tr>
<tr>
<td></td>
<td>Engineering elective or ENG1060 Computing for</td>
<td></td>
</tr>
<tr>
<td></td>
<td>engineers (if not taken in Sem 1)</td>
<td>ECC1000 Principles of microeconomics</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 1</strong></td>
<td>ECC2800 Prosperity, poverty and sustainability</td>
<td></td>
</tr>
<tr>
<td></td>
<td>in a globalised world</td>
<td>BIO2011 Ecology and biodiversity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ETC1000 Business and economics statistics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BTC1110 Commercial law</td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td>ENG2005 Advanced engineering mathematics</td>
<td>CHE2162 Material and energy balances</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MKC1200 Principles of marketing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGC1010 Intro to management</td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 1</strong></td>
<td>ENE3048 Energy and the environment</td>
<td>CIV2263 Water systems</td>
</tr>
<tr>
<td></td>
<td>Replaced by ENE3021 from 2019</td>
<td></td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td>CHE2164 Thermodynamics 1</td>
<td>ENE2503 Materials properties and recycling</td>
</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>Year 4</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 1</strong></td>
<td>CIV3248 Groundwater and environmental</td>
<td>CIV3285 Engineering hydrology</td>
</tr>
<tr>
<td></td>
<td>geomechanics</td>
<td></td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td>CIV3606 The air environment</td>
<td></td>
</tr>
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<td></td>
<td>Environmental engineering technical elective at level 4 See footnote</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Year 5</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 1</strong></td>
<td>Streams: Geomechanics, Transport, Water</td>
<td>BTX3100 Sustainability regulation for business</td>
</tr>
<tr>
<td></td>
<td>management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CIV4210 Project A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Replace with ENG4702 from 2022</td>
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<tr>
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<tr>
<td><strong>Semester 2</strong></td>
<td>ENE4607 Environmental risk assessment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Replace with ENG4702 from 2022</td>
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<td></td>
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</tbody>
</table>

**Note:**
- **FROM 2022:** Following a recent advice by Engineers Australia, you must complete 12 CP of a final year project (FYP) in order to meet professional accreditation requirements. To undertake 12CP FYP units ENG4701 and ENG4702, you must free up 6 credit points by reserving unit requirements. To undertake 12CP FYP units ENG4701 and ENG4702, you must reserve 6 credit points by reserving unit requirements.
- **CIV4210:** If you are course-completing in 2022/23, complete CIV4210 (if undertaking 6CP FYP only) or CIV4212 (if undertaking 12CP FYP). Otherwise, replace CIV4210 with ENG4702 or CIV4212 from 2022.
- 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.


CRICOS Provider Number: 00008C

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E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation - Materials Engineering

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1001 Engineering design: Lighter, faster, stronger or ENG1002 Engineering design: Cleaner, safer, smarter</td>
<td>ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics</td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1002 Engineering design: Cleaner, safer, smarter or ENG1001 Engineering design: Lighter, faster, stronger</td>
<td>ENG1005 Engineering mathematics or ENG1003 Engineering mobile apps</td>
<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ECC1000 Principles of microeconomics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE2541 Crystal structures, thermodynamics and phase equilibria</td>
<td>MTE2544 Functional materials</td>
<td>ETC1000 Business and economic statistics</td>
</tr>
<tr>
<td>See footnote 1</td>
<td>Replace with MTE2202 from 2021 (Semester 2 offering)</td>
<td>BTC1110 Commercial law</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If two foundation units are required then overload is required for PHS1090 Foundation physics Replaced by PHS1001 from 2018</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE2542 Microstructural development</td>
<td>ENG2005 Advanced engineering maths</td>
<td>MKC1200 Principles of marketing</td>
</tr>
<tr>
<td>Replace with MTE3102 from 2021</td>
<td></td>
<td>MGC1010 Intro to management</td>
</tr>
<tr>
<td>(Semester 1 offering)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE3541 Materials durability</td>
<td>MTE2546 Mechanics of materials</td>
<td>Commerce major</td>
</tr>
<tr>
<td>Replace with MTE3103 from 2022</td>
<td>Replace with MTE2101 from 2021</td>
<td>Commerce major</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE3545 Functional materials and devices</td>
<td>MTE2545 Polymers and ceramics 1</td>
<td>Commerce major</td>
</tr>
<tr>
<td>Replace with MTE3303 from 2022</td>
<td>See footnote 2</td>
<td>Commerce major</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE3543 Microstructure to applications: The mechanics of materials</td>
<td>MTE3542 Microstructural design in structural materials</td>
<td>Commerce major</td>
</tr>
<tr>
<td>See footnote 1</td>
<td>Replace with MTE3102 from 2022</td>
<td>Commerce major – at level 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE3547 Materials characterisation and modelling</td>
<td>MTE3546 Polymers and ceramics 2</td>
<td>Commerce major – at level 3</td>
</tr>
<tr>
<td>See footnote 1</td>
<td>See footnote 2</td>
<td>Commerce major – at level 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE4525 Project 1</td>
<td>MTE4571 Materials engineering design and practice</td>
<td>MTE4572 Polymer and composite processing and engineering</td>
</tr>
<tr>
<td>Replace with ENG1001 from 2021</td>
<td>See footnote 3</td>
<td>See footnote 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Capstone portfolio unit – level 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE4526 Project 2</td>
<td>Level 4 or 5 materials engineering technical elective</td>
<td>MTE4573 Processing and engineering of metals and ceramics</td>
</tr>
<tr>
<td>Replace with ENG1002 from 2022</td>
<td>See footnote 3</td>
<td>See footnote 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Commerce elective</td>
</tr>
</tbody>
</table>

Note:
1. MTE2101 and MTE3101 will be replacing MTE2541 and MTE3547 respectively. If you have completed MTE2541 prior to 2021, you must complete MTE3547 (last offering 2021). Otherwise, complete MTE2101 and MTE3101 combination.
2. MTE2021 and MTE3203 will be replacing MTE2545 and MTE3546 respectively. If you have completed MTE2545 prior to 2021, you must complete MTE3546 (last offering 2021). Otherwise, complete MTE2201 and MTE3203 combination.
3. You must complete the (MTE3543+MTE4571+MTE4572+MTE4573) combination (last offerings 2022). Otherwise, complete (MTE3201+MTE4101+MTE4102+MTE4201) combination.

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. All Bachelor of Engineering (Honours) students are required to complete Continuous Professional Development (CPD) in order to graduate. For CPD advice, refer to the CPD webpage. For enrolment advice, please refer to the Course Advisers webpage.

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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 and subject to updates. It should be used in conjunction with the requirements of the course as specified in the Handbook. The map is subject to updates. Last update: 18 October 2021

E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

Specialisation - Mechanical Engineering

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Semester 1</td>
<td>ENG1001 Engineering design: Lighter, faster, stronger or ENG1002 Engineering design: Cleaner, safer, smarter</td>
<td>ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics Foundation unit or ENG1060 Computing for engineers</td>
</tr>
<tr>
<td>Year 1</td>
<td>Semester 2</td>
<td>ENG1002 Engineering design: Cleaner, safer, smarter or ENG1001 Engineering design: Lighter, faster, stronger</td>
<td>ENG1005 Engineering mathematics or ENG1003 Engineering mobile apps Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
</tr>
<tr>
<td>Year 2</td>
<td>Semester 1</td>
<td>MEC2403 Mechanics of materials</td>
<td>MEC2401 Dynamics 1</td>
</tr>
<tr>
<td>Year 2</td>
<td>Semester 2</td>
<td>MEC2404 Mechanics of fluids</td>
<td>ENG2005 Advanced engineering mathematics</td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 1</td>
<td>MEC2402 Engineering design 1 (Unit title change in 2021)</td>
<td>MEC3456 Engineering computational analysis</td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 2</td>
<td>MEC3457 Systems and control</td>
<td>MEC2405 Thermodynamics</td>
</tr>
<tr>
<td>Year 4</td>
<td>Semester 1</td>
<td>MEC3455 Solid mechanics</td>
<td>MEC3451 Fluid mechanics 2</td>
</tr>
<tr>
<td>Year 4</td>
<td>Semester 2</td>
<td>MEC3453 Dynamics 2</td>
<td>MEC3416 Engineering design 2 (Unit title change in 2021)</td>
</tr>
<tr>
<td>Year 5</td>
<td>Semester 1</td>
<td>MEC4401 Final year project (Replace with ENG4701 from 2021)</td>
<td>MEC4404 Professional Practice</td>
</tr>
<tr>
<td>Year 5</td>
<td>Semester 2</td>
<td>MEC4402 Final year project – Thesis (Replace with ENG4702 from 2022)</td>
<td>MEC4407 Engineering design 3 (Unit title change from 2021)</td>
</tr>
</tbody>
</table>

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## Course progression map for 2016 commencing students

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### E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce

#### Specialisation - Mechatronics Engineering

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Bachelor of Mechatronics Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Semester 1</td>
<td>ENG1001 Engineering design: Lighter, faster, stronger or ENG1002 Engineering design: Cleaner, safer, smarter</td>
<td>ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics</td>
</tr>
<tr>
<td>Year 1</td>
<td>Semester 2</td>
<td>ENG1002 Engineering design: Cleaner, safer, smarter or ENG1001 Engineering design: Lighter, faster, stronger</td>
<td>ENG1005 Engineering mathematics or ENG1003 Engineering mobile apps</td>
</tr>
<tr>
<td>Year 2</td>
<td>Semester 1</td>
<td>ECE2071 Computer organisation and programming</td>
<td>ECE2131 Electrical circuits</td>
</tr>
<tr>
<td>Year 2</td>
<td>Semester 2</td>
<td>ENG2005 Advanced engineering mathematics</td>
<td>TRC2201 Mechanics</td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 1</td>
<td>TRC3200 Dynamical systems</td>
<td>MEC2402 Engineering design 1</td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 2</td>
<td>ECE3161 Analogue electronics</td>
<td>TRC2001 Intro to systems engineering</td>
</tr>
<tr>
<td>Year 4</td>
<td>Semester 1</td>
<td>TRC3802 Thermo-fluids and power systems</td>
<td>TRC3500 Sensors and artificial perception</td>
</tr>
<tr>
<td>Year 4</td>
<td>Semester 2</td>
<td>TRC3600 Modelling and control</td>
<td>TRC3000 Mechatronics project 2</td>
</tr>
<tr>
<td>Year 5</td>
<td>Semester 1</td>
<td>TRC4000 Mechatronics final year project 1 Replace with ENG4101 from 2021/22</td>
<td>TRC4800 Robotics</td>
</tr>
<tr>
<td>Year 5</td>
<td>Semester 2</td>
<td>TRC4001 Mechatronics final year project 2 Replace with ENG4102 from 2022</td>
<td>TRC4002 Mechatronics and manufacturing</td>
</tr>
</tbody>
</table>

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## Course progression map for 2016 commencing students

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**E3005 Bachelor of Engineering (Honours) and Bachelor of Commerce**

### Specialisation - Software Engineering

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Semester 1</td>
<td>ENG1001 Engineering design: Lighter, faster, stronger or ENG1002 Engineering design: Cleaner, safer, smarter</td>
<td>ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
<td>ACC1200 Accounting for managers or ACC1100 Introduction to financial accounting</td>
</tr>
<tr>
<td>Year 1</td>
<td>Semester 2</td>
<td>ENG1002 Engineering design: Lighter, faster, stronger or ENG1001 Engineering design: Cleaner, safer, smarter</td>
<td>ENG1005 Engineering mathematics or ENG1003 Engineering mobile apps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
<td>ECC1000 Principles of microeconomics</td>
</tr>
</tbody>
</table>

| Year 2 | Semester 1 | MAT1830 Discrete mathematics for computer science | FIT2085 Introduction to computer science |
| | | | ETC1000 Business and economics statistics |
| | | FIT2010 Software engineering process and management | BTC1110 Commercial law |

| Year 2 | Semester 2 | FIT2004 Algorithms and data structures | ECC1000 Principles of microeconomics |
| | | | BTC1110 Commercial law |

| Year 3 | Semester 1 | FIT2100 Operating systems | FIT2099 Object oriented design and implementation |
| | | Commerce major | Commerce major |

| Year 3 | Semester 2 | FIT2107 Software quality and testing | FIT3159 Computer architecture |
| | | Commerce major | Commerce major |

| Year 4 | Semester 1 | FIT3170 Software engineering practice (12 points) | FIT3077 Software engineering: architecture and design |
| | | Commerce major | Commerce major – at level 3 |

| Year 4 | Semester 2 | FIT3171 Databases | Commerce major – at level 3 |
| | | | Commerce major – at level 3 |

| Year 5 | Semester 1 | FIT4002 Software engineering industry experience studio project (12 points) | FIT4165 Computer networks |
| | | | Software engineering technical elective at level 4 or 5 |
| | | | Capstone portfolio unit – level 3 |

| Year 5 | Semester 2 | FIT4003 Software engineering research project | Commerce elective |

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