Course progression map for 2017 commencing students

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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

Specialisations - Aerospace engineering and Actuarial science

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Actuarial Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
</tr>
<tr>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
</tr>
<tr>
<td>YEAR 1 Semester 2</td>
<td>ETC1000 Business and economic statistics</td>
<td>ETC2410 Introductory econometrics</td>
</tr>
<tr>
<td>YEAR 2 Semester 1</td>
<td>ENG2005 Advanced engineering mathematics</td>
<td>MEC2401 Dynamics 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ETC2430 Applied stochastic modelling</td>
</tr>
<tr>
<td></td>
<td>MAE2402 Thermodynamics and heat transfer</td>
<td>ECC1100 Principles of macroeconomics</td>
</tr>
<tr>
<td></td>
<td>Unit title change in 2021</td>
<td>If two foundation units are required then overload is required for PHS1080</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Foundation physics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*This unit is replaced by PHS1001 Foundation physics from 2018</td>
</tr>
<tr>
<td>YEAR 3 Semester 1</td>
<td>MAE2401 Aircraft structures 1</td>
<td>MAE3401 Aerodynamics 2</td>
</tr>
<tr>
<td></td>
<td>Replace with MEC4403 from 2023</td>
<td>BFC2000 Financial institutions and markets</td>
</tr>
<tr>
<td></td>
<td>MAE3405 Flight vehicle propulsion Unit title change in 2022</td>
<td>ETC2440 Mathematics for economics and business</td>
</tr>
<tr>
<td>YEAR 3 Semester 2</td>
<td>Actuarial science specialisation unit level 3 (list b)</td>
<td>ACC1100 Introduction to financial accounting</td>
</tr>
<tr>
<td>YEAR 4 Semester 1</td>
<td>MEC3456 Aerospace computational mechanics</td>
<td>MAE3404 Flight vehicle dynamics</td>
</tr>
<tr>
<td></td>
<td>Replace with MEC4404 from 2023</td>
<td>BFC2340 Debt markets and fixed income securities</td>
</tr>
<tr>
<td></td>
<td>MAE3404 Flight vehicle dynamics</td>
<td>Actuarial science specialisation unit level 3 (list b)</td>
</tr>
<tr>
<td></td>
<td>BFC2340 Debt markets and fixed income securities</td>
<td>Actuarial science specialisation unit level 3 (list b)</td>
</tr>
<tr>
<td>YEAR 4 Semester 2</td>
<td>MAE3426 Computer-aided design</td>
<td>MAE3408 Aerospace control</td>
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<tr>
<td></td>
<td>MAE3408 Aerospace control</td>
<td>Actuarial science specialisation unit level 2 (list b)</td>
</tr>
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<td>Actuarial science specialisation unit level 2 (list b)</td>
<td>Actuarial science specialisation unit level 2 (list b)</td>
</tr>
<tr>
<td>YEAR 5 Semester 1</td>
<td>MEC4401 Final year project</td>
<td>MAE4404 Aerospace practices</td>
</tr>
<tr>
<td></td>
<td>Replace with ENG4701 from 2021/22</td>
<td>Replace with MEC4404 from 2023</td>
</tr>
<tr>
<td></td>
<td>MAE4411 Aircraft structures 2</td>
<td>ECC1000 Principles of microeconomics</td>
</tr>
<tr>
<td>YEAR 5 Semester 2</td>
<td>MAE4410 Flight vehicle design</td>
<td>ETC3530 Contingencies in insurance and pensions</td>
</tr>
<tr>
<td></td>
<td>MAE4410 Flight vehicle design</td>
<td>ETC3530 Contingencies in insurance and pensions</td>
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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

**Specialisations - Aerospace engineering and Finance**

<table>
<thead>
<tr>
<th><strong>Bachelor of Aerospace Engineering (Honours)</strong></th>
<th><strong>Bachelor of Finance</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR 1</strong>&lt;br&gt;Semester 1</td>
<td><strong>Foundation unit or ENG1005 Computing for engineers</strong>&lt;br&gt;ENG1001 Engineering design: lighter, faster, stronger or ENG1002 mobile apps or ENG1005</td>
</tr>
<tr>
<td><strong>YEAR 1</strong>&lt;br&gt;Semester 2</td>
<td><strong>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</strong>&lt;br&gt;ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
</tr>
<tr>
<td><strong>YEAR 2</strong>&lt;br&gt;Semester 1</td>
<td><strong>MEC2401 Dynamics 1</strong>&lt;br&gt;ENG2005 Advanced engineering mathematics</td>
</tr>
<tr>
<td><strong>YEAR 2</strong>&lt;br&gt;Semester 2</td>
<td><strong>ETC2410 Introductory econometrics</strong>&lt;br&gt;MAE2404 Aerodynamics 1</td>
</tr>
<tr>
<td><strong>YEAR 3</strong>&lt;br&gt;Semester 1</td>
<td><strong>ACC1100 Introduction to financial accounting or ACC1200 Accounting for managers</strong>&lt;br&gt;MAE2401 Aircraft structures 1 Replace with MEC2403 from 2023&lt;br&gt;MAE3401 Aerodynamics 2</td>
</tr>
<tr>
<td><strong>YEAR 3</strong>&lt;br&gt;Semester 2</td>
<td><strong>BFC2751 Derivatives 1</strong>&lt;br&gt;MAE3405 Flight vehicle propulsion Unit title change in 2021&lt;br&gt;MAE2405 Aircraft performance (if not already completed in First Year) or a 6 credit point unit as directed by the Course Coordinator</td>
</tr>
<tr>
<td><strong>YEAR 4</strong>&lt;br&gt;Semester 1</td>
<td><strong>BFC3240 International finance</strong>&lt;br&gt;MAE3456 Aerospace computational mechanics Replace with MEC3456 from 2023&lt;br&gt;MAE3404 Flight vehicle dynamics</td>
</tr>
<tr>
<td><strong>YEAR 4</strong>&lt;br&gt;Semester 2</td>
<td><strong>BFC3340 Derivatives 2</strong>&lt;br&gt;MAE3426 Computer-aided design&lt;br&gt;MAE3408 Aerospace control</td>
</tr>
<tr>
<td><strong>YEAR 5</strong>&lt;br&gt;Semester 1</td>
<td><strong>BFC2240 Equities and investment analysis</strong>&lt;br&gt;MEC4401 Final year project Replace with ENG4701 from 2021/22&lt;br&gt;MAE4404 Aircraft structures Replace with MEC4404 from 2023</td>
</tr>
<tr>
<td><strong>YEAR 5</strong>&lt;br&gt;Semester 2</td>
<td><strong>BFC3999 Finance and society (capstone)</strong>&lt;br&gt;MEC4402 Final year project – Thesis Replace with ENG4702 from 2022&lt;br&gt;MAE4411 Aircraft structures 2&lt;br&gt;MAE4410 Flight vehicle design Semester 1 offering from 2023&lt;br&gt;MAE4408 Damage tolerance and airworthiness</td>
</tr>
</tbody>
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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

**Specialisations - Aerospace engineering and Economics and economic policy**

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Economics</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
<td>ETC1000 Business and economic statistics</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</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>
<tr>
<td>2</td>
<td>1</td>
<td>ENG2005 Advanced engineering mathematics</td>
<td>MEC2401 Dynamics 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ECC1100 Principles of macroeconomics</td>
<td>ECC2000 Intermediate microeconomics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MEC2402 Thermodynamics and heat transfer Unit title change in 2021</td>
<td>If two foundation units are required then overload is required for PHS1080 Foundation physics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MEC2404 Aerodynamics 1</td>
<td>Economics discipline (Compulsory - list b or a) at Level 2</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>MAE2402 Aerodynamics 1</td>
<td>MAE2404 Aerodynamics 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Economics discipline (Compulsory – List a) at Level 3</td>
<td>Economics discipline (Compulsory – List b or a) at Level 2/3</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>MAE2401 Aircraft structures 1 Replace with MEC2403 from 2023</td>
<td>MAE3401 Aerodynamics 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Economics discipline (Compulsory – List a) at Level 3</td>
<td>Economics discipline (Compulsory – List b or a) at Level 2/3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MAE2405 Aircraft performance (if not already completed in First Year) Or a 6 credit point unit as directed by the Course Coordinator</td>
<td>MAE3405 Flight vehicle propulsion Unit title change in 2022</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>MAE3405 Flight vehicle propulsion Unit title change in 2022</td>
<td>ETC2410 Introductory econometrics</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>MAE3456 Aerospace computational mechanics Replace with MEC3456 from 2023</td>
<td>MAE3404 Flight vehicle dynamics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Economics discipline (Compulsory – List a) at Level 3</td>
<td>Commerce elective</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>MEC4401 Final year project Replace with ENG4701 from 2021/22</td>
<td>MAE4404 Aerospace practices Replace with MEC4404 from 2023</td>
</tr>
<tr>
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<td></td>
<td>Commerce elective</td>
<td>MAE4411 Aircraft structures 2</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>MEC4401 Final year project – Thesis Replace with ENG4702 from 2022</td>
<td>MAE4410 Flight vehicle design Semester 1 offering from 2023</td>
</tr>
<tr>
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<td></td>
<td>Commerce elective</td>
<td>MAE4408 Damage tolerance and airworthiness</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>MEC4402 Final year project – Thesis Replace with ENG4702 from 2022</td>
<td></td>
</tr>
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**Specialisations - Aerospace engineering and Mathematical economics and econometrics**

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<tr>
<th>Year 1 Semester 1</th>
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<th>Bachelor of Economics</th>
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<tbody>
<tr>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
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<td>Foundation unit or ENG1060 Computing for engineers</td>
</tr>
<tr>
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<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG2005 Advanced engineering mathematics</td>
<td>MEC2401 Dynamics 1</td>
<td>ECC2000 Intermediate microeconomics</td>
</tr>
<tr>
<td>MAE2404 Aerodynamics 1</td>
<td>MAE2402 Thermodynamics and heat transfer</td>
<td>Economics discipline (Compulsory) at Level 2/3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 2</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAE2401 Aircraft structures 1</td>
<td>MAE3401 Aerodynamics 2</td>
<td>Economics discipline (Compulsory) Part 1 of pair list</td>
</tr>
<tr>
<td>MAE2405 Aircraft performance (if not already completed in First Year) or a 6 credit point unit as directed by the Course Coordinator</td>
<td>MAE3405 Flight vehicle propulsion</td>
<td>Economics discipline (Compulsory) Part 2 of pair list</td>
</tr>
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<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAE3456 Aerospace computational mechanics</td>
<td>MAE3404 Flight vehicle dynamics</td>
<td>Economics discipline (Compulsory) at Level 3</td>
</tr>
<tr>
<td>MAE3426 Computer-aided design</td>
<td>MAE3408 Aerospace control</td>
<td>Commerce elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 2</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Economics</th>
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</thead>
<tbody>
<tr>
<td>MEC4401 Final year project</td>
<td>MEC4404 Aircraft structures 2</td>
<td>Commerce elective</td>
</tr>
<tr>
<td>MEC4402 Final year project – Thesis</td>
<td>MEC4410 Flight vehicle design</td>
<td>MAE4408 Damage tolerance and airworthiness</td>
</tr>
</tbody>
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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

Specialisations - Chemical engineering and Actuarial science

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>Semester 1</th>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Actuarial Science</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ETC1000 Business and economic statistics</td>
</tr>
<tr>
<td></td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ETC2410 Introductory econometrics</td>
</tr>
</tbody>
</table>

| YEAR 2 | Semester 1 | CHM1011 chemistry 1 or CHM1051 Chemistry 1 advanced | CHE2161 Mechanics of fluids or 6 point unit as directed by coordinator |
|        |            | ETC2430 Applied stochastic modelling | ECC1100 Principles of macroeconomics |

| YEAR 2 | Semester 2 | CHE2162 Material and energy balances | ENG2005 Advanced engineering mathematics |
|        |            | BFC2140 Corporate finance 1 | ETC2420 Statistical methods in insurance |

| YEAR 3 | Semester 1 | CHE2164 Thermodynamics 1 | CHE3167 Transport phenomena and numerical methods |
|        |            | BFC2000 Financial institutions and markets | ETC2440 Mathematics for economics and business |

| YEAR 3 | Semester 2 | CHE2163 Heat and mass transfer | CHE3162 Process control |
|        |            | Actuarial science specialisation unit level 3 (list b) | ACC1100 Introduction to financial accounting |

| YEAR 4 | Semester 1 | CHE3161 Chemistry and chemical thermodynamics | CHE3165 Separation processes |
|        |            | BFC2340 Debt markets and fixed income securities | Actuarial science specialisation unit level 3 (list b) |

| YEAR 4 | Semester 2 | CHE3166 Process design | CHE3164 Reaction engineering |
|        |            | Actuarial science specialisation unit level 3 (list b) | Actuarial science specialisation unit level 2 (list b) |

| YEAR 5 | Semester 1 | CHE4164 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 two core units below [CHE4161 and CHE4180 (or ENG4701 and ENG4702)] |
|        |            | ECC1000 Principles of microeconomics |

| YEAR 5 | Semester 1 | CHE4180 Chemical engineering project | Replace with ENG4701 from 2021. See footnote |
|        |            | CHE4162 Particle technology | CHE4161 Engineers in society |
|        |            | ETC1000 Principles of microeconomics |

| YEAR 5 | Semester 2 | ENG4702 Final year project B | CHE4170 Design project (12 points) |
|        |            | ETC3530 Contingencies in insurance and pensions |

**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.
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Specialisations - Chemical engineering and Finance

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<tr>
<td></td>
<td></td>
<td>ETC1000 Business and economic statistics</td>
</tr>
<tr>
<td>Year 1 Semester 2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ECC1000 Principles of microeconomics</td>
</tr>
<tr>
<td>Year 2 Semester 1</td>
<td>CHM1011 Chemistry 1 or CHM1051 Chemistry 1 advanced</td>
<td>CHE2161 Mechanics of fluids or 6 point unit as directed by coordinator</td>
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<tr>
<td>Year 2 Semester 2</td>
<td>CHE2162 Material and energy balances</td>
<td>ENG2005 Advanced engineering mathematics</td>
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<td>Year 3 Semester 1</td>
<td>CHE2164 Thermodynamics 1</td>
<td>CHE3167 Transport phenomena and numerical methods</td>
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</tr>
<tr>
<td>Year 3 Semester 2</td>
<td>CHE2163 Heat and mass transfer</td>
<td>CHE3162 Process control</td>
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<tr>
<td>Year 4 Semester 1</td>
<td>CHE3161 Chemistry and chemical thermodynamics</td>
<td>CHE3165 Separation processes</td>
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<td>Year 4 Semester 2</td>
<td>CHE3166 Process design</td>
<td>CHE3164 Reaction engineering</td>
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<tr>
<td>Year 5 Semester 1</td>
<td>CHE4164 Integrated industrial project (18 points)</td>
<td>For selected students taking a period of integrated industrial training in the first semester of their final year. This will replace the two core units below [CHE4161 and CHE4180 (or ENG4701 and ENG4702)]</td>
</tr>
<tr>
<td>OR</td>
<td>CHE4180 Chemical engineering project (12 points)</td>
<td>CHE4162 Particle technology</td>
</tr>
<tr>
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<td>Replace with CHE4161 and CHE4162 from 2021, See footnote</td>
<td></td>
</tr>
<tr>
<td>Year 5 Semester 1</td>
<td></td>
<td></td>
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<tr>
<td>Year 5 Semester 2</td>
<td>ENG4702 Final year project B</td>
<td>CHE4170 Design project (12 points)</td>
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<td>See footnote</td>
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</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.

Specialisations - Chemical engineering and Finance
## Course progression map for 2017 commencing students

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### E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

#### Specialisations - Chemical engineering and Economics and economic policy

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
</tr>
<tr>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</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 Chemical Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM101 Chemistry 1 or CHM1051 Chemistry 1 advanced</td>
<td>CHE2161 Mechanics of fluids or 8 point unit as directed by coordinator</td>
<td>ECC1100 Principles of macroeconomics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 2</th>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG2005 Advanced engineering mathematics</td>
<td>ECC2001 Intermediate microeconomics</td>
<td>Economics discipline (Compulsory - list b or a) at Level 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE2164 Thermodynamics 1</td>
<td>CHE3167 Transport phenomena and numerical methods</td>
<td>Economics discipline (Compulsory - list a) at Level 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 2</th>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE2163 Heat and mass transfer</td>
<td>CHE3162 Process control</td>
<td>Economics discipline (Compulsory – List a) at Level 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 1</th>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE3161 Chemistry and chemical thermodynamics</td>
<td>CHE3165 Separation processes</td>
<td>Economics discipline (Compulsory – List a) at Level 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 2</th>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE3166 Process design</td>
<td>CHE3164 Reaction engineering</td>
<td>ETC3690 International economics (Capstone)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 1</th>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE4164 Integrated industrial project (18 points)</td>
<td></td>
<td>Commerce elective</td>
</tr>
</tbody>
</table>

**OR**

<table>
<thead>
<tr>
<th>Year 5 Semester 1</th>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE4180 Chemical engineering project</td>
<td>CHE4162 Particle technology</td>
<td>Commerce elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 2</th>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG4702 Final year project B</td>
<td>CHE4170 Design project (12 points)</td>
<td>Commerce elective</td>
</tr>
</tbody>
</table>

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- Students should not overload in the semester of undertaking CHE4170.
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Course progression map for 2017 commencing students

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E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

Specialisations - Chemical engineering and Mathematical economics and econometrics

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<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
<td>ETC1000 Business and economic statistics</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</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>
<tr>
<td>2</td>
<td>1</td>
<td>CHM1011 Chemistry 1 or CHM1051 Chemistry 1 advanced</td>
<td>CHE2161 Mechanics of fluids or 6 point unit as directed by coordinator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ECC2200 Intermediate microeconomics</td>
<td>ECC1100 Principles of macroeconomics</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>CHE2162 Material and energy balances</td>
<td>CHE2005 Advanced engineering mathematics</td>
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<td></td>
<td></td>
<td>Economics discipline (Compulsory) at Level 2/3</td>
<td>ETC2410 Introductory econometrics</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>CHE2164 Thermodynamics 1</td>
<td>CHE3167 Transport phenomena and numerical methods</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Economics discipline (Compulsory) Part 1 of pair list</td>
<td>Economics discipline (Compulsory) at Level 2/3</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>CHE2163 Heat and mass transfer</td>
<td>CHE3162 Process control</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Economics discipline (Compulsory) Part 2 of pair list</td>
<td>Economics discipline (Compulsory) at Level 3</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>CHE3161 Chemistry and chemical thermodynamics</td>
<td>CHE3165 Separation processes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Economics discipline (Compulsory) at Level 3</td>
<td>Commerce elective</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>CHE3166 Process design</td>
<td>CHE3164 Reaction engineering</td>
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<tr>
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<td>ECC3840 Mathematical economics</td>
<td>Commerce elective</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>CHE4164 Integrated industrial project (18 points)</td>
<td>Commerce elective</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td>For selected students taking a period of integrated industrial training in the first semester of their final year. This will replace the two core units below [CHE4161 and CHE4180 (or ENG4701 and ENG4702)]</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>CHE4180 Chemical engineering project</td>
<td>CHE4162 Particle technology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHE4161 Engineers in society</td>
<td>CHE4170 Design project (12 points)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ETC3400 Principles of econometrics (capstone)</td>
<td></td>
</tr>
<tr>
<td>NOTE:</td>
<td></td>
<td>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.</td>
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<tr>
<td></td>
<td></td>
<td>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.</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Students should not overload in the semester of undertaking CHE4170.</td>
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<td></td>
<td></td>
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CRICOS Provider Number: 00006C
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Course progression map for 2017 commencing students

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E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

Specialisations - Civil engineering and Actuarial science

<table>
<thead>
<tr>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Actuarial Science</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR 1</strong></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
</tr>
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<td>ENG1005 Engineering mathematics or ENG1003</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YEAR 2</strong></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>CIV2225 Design of steel and timber structures</td>
<td>CIV2206 Mechanics of solids Unit title change from 2019</td>
</tr>
<tr>
<td>Replace with CIV2235 from 2021</td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>CIV2242 Geomechanics 1</td>
<td>ENG2005 Advanced engineering mathematics</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YEAR 3</strong></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>CIV3284 Design of concrete and masonry structures</td>
<td>CIV2263 Water systems</td>
</tr>
<tr>
<td>Replace with CIV3294 from 2023</td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>CIV3247 Geomechanics 2</td>
<td>CIV3204 Engineering investigation See footnote</td>
</tr>
<tr>
<td></td>
<td>ACT3105 Actuarial science</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YEAR 4</strong></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>CIV3285 Engineering hydrology</td>
<td>CIV3248 Groundwater and environmental geomechanics</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>CIV2282 Transport and traffic engineering</td>
<td>CIV3221 Building structures and technology</td>
</tr>
<tr>
<td></td>
<td>Actuarial science specialisation unit level 2 (list b)</td>
</tr>
<tr>
<td><strong>YEAR 5</strong></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>CIV4210 Project A (if not taken in 2021)</td>
<td>CIV4260 Bridge design and assessment</td>
</tr>
<tr>
<td>Replace with ENG4701 from 2022. See footnote</td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>CIV4287 Road engineering (if not taken in 2021)</td>
<td>CIV4288 Water treatment</td>
</tr>
<tr>
<td>Replace with ENG4702 from 2022. See footnote</td>
<td></td>
</tr>
</tbody>
</table>

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- CIV4210 – If you are course-completing in 2022/S1, complete CIV4210 (for GCP FYP) or CIV4211 (if undertaking 12CP FYP). Otherwise, replace CIV4210 with ENG4701 from 2022.
- CIV2304 – 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.
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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

**Specialisations - Civil engineering and Finance**

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEAR 1</td>
<td>Semester 1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
</tr>
<tr>
<td>YEAR 1</td>
<td>Semester 2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
</tr>
<tr>
<td>YEAR 2</td>
<td>Semester 1</td>
<td>CIV2225 Design of steel and timber structures</td>
<td>CIV2263 Water systems</td>
</tr>
<tr>
<td>YEAR 2</td>
<td>Semester 2</td>
<td>CIV2242 Geomechanics 1</td>
<td>CIV2206 Mechanics of solids</td>
</tr>
<tr>
<td>YEAR 3</td>
<td>Semester 1</td>
<td>CIV3284 Design of concrete and masonry structures</td>
<td>CIV3285 Groundwater engineering and environmental geomechanics</td>
</tr>
<tr>
<td>YEAR 3</td>
<td>Semester 2</td>
<td>CIV3247 Geomechanics 2</td>
<td>CIV3221 Building structures and technology</td>
</tr>
<tr>
<td>YEAR 4</td>
<td>Semester 1</td>
<td>CIV3286 Engineering hydrology</td>
<td>CIV3248 Groundwater and environmental geomechanics</td>
</tr>
<tr>
<td>YEAR 4</td>
<td>Semester 2</td>
<td>CIV2282 Transport and traffic engineering</td>
<td>CIV3221 Building structures and technology</td>
</tr>
<tr>
<td>YEAR 5</td>
<td>Semester 1</td>
<td>CIV4210 Project A</td>
<td>CIV4286 Project management for civil engineers</td>
</tr>
<tr>
<td>YEAR 5</td>
<td>Semester 2</td>
<td>CIV4287 Road engineering</td>
<td>CIV4288 Water treatment</td>
</tr>
</tbody>
</table>

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- **CIV4287** – If you have completed CIV4287 by 2021, replace CIV4287 with CIV4287 from 2022. CIV3283 is highly recommended to be taken as a level 3 civil engineering elective.
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CRICOS Provider Number: 00006C

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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

Specialisations - Civil engineering and Economics and economic policy

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<thead>
<tr>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR 1</strong></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
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</tr>
<tr>
<td><strong>YEAR 2</strong></td>
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<tr>
<td>Semester 1</td>
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<tr>
<td><strong>YEAR 3</strong></td>
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<tr>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td><strong>YEAR 4</strong></td>
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</tr>
<tr>
<td>Semester 1</td>
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</tr>
<tr>
<td><strong>YEAR 5</strong></td>
<td></td>
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<td>Semester 1</td>
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- CIV3204 – If you have not completed CIV3204 by 2021, replace CIV3204 with CIV3283 Road engineering from 2022.
- CIV4287 – If you have completed CIV4287 by 2021, replace CIV4287 with ENG4702 from 2022. CIV3283 is highly recommended to be taken as a level 3 civil engineering technical elective.
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CRICOS Provider Number: 00008C

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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

Specialisations - Civil engineering and Mathematical economics and econometrics

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<tr>
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<th>Bachelor of Economics</th>
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<tbody>
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<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
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<td>YEAR 1 Semester 2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>CIV2225 Design of steel and timber structures</th>
<th>CIV2206 Mechanics of solids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace with CIV2225 from 2021</td>
<td>Unit title change from 2019</td>
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</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Year 2 Semester 2</th>
<th>CIV2224 Geomechanics 1</th>
<th>ENG2005 Advanced engineering mathematics</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>CIV3284 Design of concrete and masonry structures</th>
<th>CIV2263 Water systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace with CIV3284 from 2022</td>
<td></td>
<td>Economics discipline (Compulsory) at Level 2/3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 2</th>
<th>CIV3247 Geomechanics 2</th>
<th>CIV3204 Engineering investigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics discipline (Compulsory)</td>
<td>Part 2 of pair list</td>
<td>Economics discipline (Compulsory) at Level 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 1</th>
<th>CIV3285 Engineering hydrology</th>
<th>CIV3248 Groundwater and environmental geomechanics</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 2</th>
<th>CIV2282 Transport and traffic engineering</th>
<th>CIV3221 Building structures and technology</th>
</tr>
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<table>
<thead>
<tr>
<th>Year 5 Semester 1</th>
<th>CIV4210 Project A Replace with ENG4701 from 2022. See footnotes</th>
<th>CIV4280 Bridge design and assessment</th>
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</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 2</th>
<th>CIV4287 Road engineering Replace with ENG4702 from 2022. See footnotes</th>
<th>CIV4286 Project management for civil engineers</th>
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<table>
<thead>
<tr>
<th>Year 5 Semester 3</th>
<th>CIV4288 Water Treatment</th>
<th>CIV4212 Civil and environmental engineering practice</th>
</tr>
</thead>
</table>

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.
- For enrolment advice, please refer to the Course Advisers webpage.

Course progression map for 2017 commencing students

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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

Specialisations - Electrical and computer systems engineering and Actuarial science

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>Semester 1</th>
<th>Bachelor of Electrical and Computer Systems Engineering (Honours)</th>
<th>Bachelor of Actuarial Science</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
<td>Foundation unit or ENG1080 Computing for engineers</td>
</tr>
<tr>
<td></td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
<td>Engineering elective or ENG1080 Computing for engineers (if not taken in Sem 1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>YEAR 2</th>
<th>Semester 1</th>
<th>ENG2005 Advanced engineering mathematics</th>
<th>ECE2071 Computer organisation and programming</th>
<th>ETC2430 Applied stochastic modelling</th>
<th>ECC1100 Principles of macroeconomics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ECE2191 Probability models in engineering</td>
<td>ECE2072 Digital systems</td>
<td>BFC2140 Corporate finance 1</td>
<td>ETC2420 Statistical methods in insurance</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>YEAR 3</th>
<th>Semester 1</th>
<th>ECE3073 Computer systems</th>
<th>ECE2131 Electrical circuits</th>
<th>BFC2000 Financial institutions and markets</th>
<th>ETC2440 Mathematics for economics and business</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ECE2111 Signals and systems</td>
<td>ECE3121 Engineering electromagnetics</td>
<td>Actuarial science specialisation unit level 3 (list b)</td>
<td>ACC1100 Introduction to financial accounting</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>YEAR 4</th>
<th>Semester 1</th>
<th>ECE3161 Analogue electronics</th>
<th>ECE3141 Information and networks</th>
<th>BFC2340 Debt markets and fixed income securities</th>
<th>Actuarial science specialisation unit level 3 (list b)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ECE3051 Electrical energy systems*</td>
<td>ECE3091 Engineering design</td>
<td>Actuarial science specialisation unit level 3 (list b)</td>
<td>Actuarial science specialisation unit level 2 (list b)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>YEAR 5</th>
<th>Semester 1</th>
<th>ECE4094 Project A</th>
<th>Level 4 or 5 ECE-coded core elective</th>
<th>Level 4 or 5 ECE-coded core elective</th>
<th>ECC1000 Principles of microeconomics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ECE4095 Project B</td>
<td>Replace with ENG1082 from 2021/22</td>
<td>Replace with ENG1082 from 2021/22</td>
<td>ECE4132 Control systems design**</td>
<td>ETC3530 Contingencies in insurance and pensions</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.

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/2017handbooks/maps/map-e3003.pdf).
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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

Specialisations - Electrical and computer systems engineering and Finance

<table>
<thead>
<tr>
<th>Bachelor of Electrical and Computer Systems Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR 1</strong></td>
<td><strong>YEAR 2</strong></td>
</tr>
<tr>
<td>Semester 1</td>
<td>Semester 1</td>
</tr>
<tr>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG2005 Advanced engineering mathematics</td>
</tr>
<tr>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
<td>ECE2072 Digital systems</td>
</tr>
<tr>
<td>Foundation unit or ENG1060 Computing for engineers</td>
<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
</tr>
<tr>
<td><strong>YEAR 3</strong></td>
<td><strong>YEAR 4</strong></td>
</tr>
<tr>
<td>Semester 1</td>
<td>Semester 1</td>
</tr>
<tr>
<td>ECE3073 Computer systems</td>
<td>ECE3161 Analogue electronics</td>
</tr>
<tr>
<td>ECE2111 Signals and systems</td>
<td>ECE3051 Electrical energy systems*</td>
</tr>
<tr>
<td>ECE3121 Engineering electromagnetics</td>
<td>BFC3240 International finance</td>
</tr>
<tr>
<td>BFC2340 Debt markets and fixed income securities</td>
<td>BFC3340 Derivatives 2</td>
</tr>
<tr>
<td><strong>YEAR 5</strong></td>
<td><strong>YEAR 6</strong></td>
</tr>
<tr>
<td>Semester 1</td>
<td>Semester 1</td>
</tr>
<tr>
<td>ECE4094 Project A Replace with ENG4191 from 2021/22</td>
<td>Level 4 or 5 ECE-coded core elective</td>
</tr>
<tr>
<td>ECE4095 Project B Replace with ENG4191 from 2022</td>
<td>ECE4099 Professional practice</td>
</tr>
<tr>
<td>BFC3999 Finance and society (capstone)</td>
<td></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 ECE technical elective.

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.

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CRICOS Provider Number: 00008C

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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

Specialisations - Electrical and computer systems engineering and Economics and economic policy

<table>
<thead>
<tr>
<th>Bachelor of Electrical and Computer Systems Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR 1</strong> Semester 1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
</tr>
<tr>
<td><strong>YEAR 1</strong> Semester 2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
</tr>
<tr>
<td><strong>YEAR 2</strong> Semester 1</td>
<td>ENG2005 Advanced engineering mathematics</td>
</tr>
<tr>
<td><strong>YEAR 2</strong> Semester 2</td>
<td>ECE2191 Probability models in engineering</td>
</tr>
<tr>
<td><strong>YEAR 3</strong> Semester 1</td>
<td>ECE3073 Computer circuits</td>
</tr>
<tr>
<td><strong>YEAR 3</strong> Semester 2</td>
<td>ECE2111 Signals and systems</td>
</tr>
<tr>
<td><strong>YEAR 4</strong> Semester 1</td>
<td>ECE3161 Analogue electronics</td>
</tr>
<tr>
<td><strong>YEAR 4</strong> Semester 2</td>
<td>ECE3051 Electrical energy systems*</td>
</tr>
<tr>
<td><strong>YEAR 5</strong> Semester 1</td>
<td>ECE4094 Project A</td>
</tr>
<tr>
<td><strong>YEAR 5</strong> Semester 2</td>
<td>ECE4095 Project B</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.

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.

CRICOS Provider Number: 00006C

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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

Specialisations - Electrical and computer systems engineering and Mathematical Economics and econometrics

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

**YEAR 2 Semester 1**

<table>
<thead>
<tr>
<th>Bachelor of Electrical and Computer Systems Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG2005 Advanced engineering mathematics</td>
<td>ECE2071 Computer organisation and programming</td>
</tr>
<tr>
<td>ECE2191 Probability models in engineering</td>
<td>ECE2072 Digital systems</td>
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**YEAR 2 Semester 2**

<table>
<thead>
<tr>
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<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE3073 Computer systems</td>
<td>ECE2131 Electrical circuits</td>
</tr>
<tr>
<td>ECE2111 Signals and systems</td>
<td>ECE3121 Engineering electromagnetics</td>
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</tbody>
</table>

**YEAR 3 Semester 1**

<table>
<thead>
<tr>
<th>Bachelor of Electrical and Computer Systems Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE3161 Analogue electronics</td>
<td>ECE3141 Information and networks</td>
</tr>
<tr>
<td>ECE3051 Electrical energy systems*</td>
<td>ECE3091 Engineering design Replace with ECE4191 from 2022</td>
</tr>
</tbody>
</table>

**YEAR 3 Semester 2**

<table>
<thead>
<tr>
<th>Bachelor of Electrical and Computer Systems Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE4094 Project A Replace with ENG4201 from 2022</td>
<td>ECE4132 Control systems design**</td>
</tr>
<tr>
<td>ECE4095 Project B Replace with ENG4202 from 2022</td>
<td>ECE4099 Professional practice</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 ECESE technical elective.

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E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

Specialisations - Environmental engineering and Actuarial science

<table>
<thead>
<tr>
<th>Year/Semester</th>
<th>Bachelor of Environmental Engineering (Honours)</th>
<th>Bachelor of Actuarial Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEAR 1&lt;br&gt;Semester 1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
</tr>
<tr>
<td>YEAR 1&lt;br&gt;Semester 2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
</tr>
<tr>
<td>YEAR 2&lt;br&gt;Semester 1</td>
<td>ECC2800 Prosperity, poverty and sustainability in a globalised world</td>
<td>BIO2011 Ecology and biodiversity</td>
</tr>
<tr>
<td>YEAR 2&lt;br&gt;Semester 2</td>
<td>ENG2005 Advanced engineering mathematics</td>
<td>CHE2162 Material and energy balances</td>
</tr>
<tr>
<td>YEAR 3&lt;br&gt;Semester 1</td>
<td>ENE3048 Energy and the environment Replaced by ENE2021 from 2019</td>
<td>CIV263 Water systems</td>
</tr>
<tr>
<td>YEAR 3&lt;br&gt;Semester 2</td>
<td>Environmental engineering technical elective at level 4</td>
<td>ENE2503 Materials properties and recycling</td>
</tr>
<tr>
<td>YEAR 4&lt;br&gt;Semester 1</td>
<td>CIV3248 Groundwater and environmental geomechanics</td>
<td>CHE2164 Thermodynamics 1</td>
</tr>
<tr>
<td>YEAR 4&lt;br&gt;Semester 2</td>
<td>ENE3606 The air environment</td>
<td>CIV3285 Engineering hydrology Semester 7 offering from 2019</td>
</tr>
<tr>
<td>YEAR 5&lt;br&gt;Semester 1</td>
<td>Streams: Geomechanics, Transport, Water management CIV4210 Project A Replace with ENG4701 from 2022. See footnote.</td>
<td>BTX3100 Sustainability regulation for business</td>
</tr>
<tr>
<td>YEAR 5&lt;br&gt;Semester 2</td>
<td>ENE4607 Environmental risk assessment Replace with ENG4702 from 2022. See footnote.</td>
<td>Streams: Geomechanics, Transport, Water management CIV4212 Civil and environmental engineering practice</td>
</tr>
<tr>
<td>Note:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 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 the level 4 technical elective (the 6 CP elective that counts towards the Part C and D of the course requirement) for the FYP or by dropping ENE4607 or BTX3100 (if you haven’t already completed these units by 2021). Please seek course advice from the Student Services at the Faculty of Engineering.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- CIV4210 – If you are course-completing in 2022/S1, complete CIV4210 (if undertaking 6CP FYP only) or CIV4211 (if undertaking 12CP FYP). Otherwise, replace CIV4210 with ENG4701 from 2022.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 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.</td>
<td></td>
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</tr>
<tr>
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<td></td>
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<tr>
<td>- For enrollment advice, please refer to the Course Advisers webpage.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

Specialisations - Environmental engineering and Finance

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<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Bachelor of Environmental Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Semester 1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
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<tr>
<td>Year 1</td>
<td>Semester 2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
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</tr>
<tr>
<td>Year 2</td>
<td>Semester 1</td>
<td>ECC2800 Prosperity, poverty and sustainability in a globalised world</td>
<td>BIO2011 Ecology and biodiversity</td>
</tr>
<tr>
<td>Year 2</td>
<td>Semester 2</td>
<td>ENG2005 Advanced engineering mathematics</td>
<td>CHE2162 Material and energy balances</td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 1</td>
<td>ENE3048 Energy and the environment (if not taken in 2019)</td>
<td>CIV2263 Water systems</td>
</tr>
<tr>
<td>Year 3</td>
<td>Semester 2</td>
<td>Environmental engineering technical elective</td>
<td>ENE2503 Materials properties and recycling</td>
</tr>
<tr>
<td>Year 4</td>
<td>Semester 1</td>
<td>CIV3248 Groundwater and environmental geomechanics</td>
<td>CHE2164 Thermodynamics 1</td>
</tr>
<tr>
<td>Year 4</td>
<td>Semester 2</td>
<td>ENE3606 The air environment</td>
<td>CIV3285 Engineering hydrology</td>
</tr>
<tr>
<td>Year 5</td>
<td>Semester 1</td>
<td>Streams: Geomechanics, Transport, Water management CIV4210 Project A</td>
<td>BTX3100 Sustainability regulation for business</td>
</tr>
<tr>
<td>Year 5</td>
<td>Semester 2</td>
<td>ENE4607 Environmental risk assessment</td>
<td>Streams: Geomechanics, Transport, Water management CIV4212 Civil and environmental engineering practice</td>
</tr>
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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

**Specialisations - Environmental engineering and Economics and economic policy**

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<th>Bachelor of Environmental Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR 1</strong></td>
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<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td>ENG1001 Engineering design: lighter, faster,</td>
<td>ENG1003 Engineering</td>
</tr>
<tr>
<td></td>
<td>stronger or ENG1002</td>
<td>mobile apps or ENG1005</td>
</tr>
<tr>
<td></td>
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<td>Foundation unit or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1060 Computing for</td>
</tr>
<tr>
<td></td>
<td></td>
<td>engineers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ETC1000 Business</td>
</tr>
<tr>
<td></td>
<td></td>
<td>and economic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>statistics</td>
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<td></td>
<td>ENG1002 Engineering design: cleaner, safer,</td>
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<tr>
<td></td>
<td>smarter or ENG1001</td>
<td>mathematics or ENG1003</td>
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<tr>
<td></td>
<td></td>
<td>or ENG1060 Computing</td>
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<td>for engineers</td>
</tr>
<tr>
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<td>ECC1000 Principles</td>
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<tr>
<td></td>
<td></td>
<td>of microeconomics</td>
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<tr>
<td><strong>YEAR 2</strong></td>
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<tr>
<td>Semester 1</td>
<td>ECC2800 Prosperity, poverty and sustainability</td>
<td>BIO2011 Ecology and</td>
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<tr>
<td></td>
<td>in a globalised world</td>
<td>biodiversity</td>
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<td>of macroeconomics</td>
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<tr>
<td></td>
<td>ENG2005 Advanced</td>
<td>CHE2162 Material and</td>
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<tr>
<td></td>
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<td>energy balances</td>
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<td><strong>YEAR 3</strong></td>
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<tr>
<td>Semester 1</td>
<td>ENE3048 Energy and the environment</td>
<td>CIV263 Water systems</td>
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<td>(Replaced by ENE2021 from 2019)</td>
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<td>ENE2503 Materials</td>
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<tr>
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<td>property and recycling</td>
<td>at Level 3</td>
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<td>Economies discipline</td>
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<tr>
<td></td>
<td></td>
<td>(Compulsory - list b)</td>
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<tr>
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<td>at Level 2/3</td>
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<tr>
<td><strong>YEAR 4</strong></td>
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<td>Semester 1</td>
<td>CIV3248 Groundwater and environmental</td>
<td>CHE2164 Thermodynamics</td>
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</tr>
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<td></td>
<td>Replace with ENE2021 from 2019</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENE2503 Materials</td>
<td>Economies discipline</td>
</tr>
<tr>
<td></td>
<td>engineering technical elective</td>
<td>(Compulsory - list a)</td>
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<td>property and recycling</td>
<td>at Level 3</td>
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<tr>
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<td>Economies discipline</td>
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<td>(Compulsory - list b)</td>
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<td>at Level 2/3</td>
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<tr>
<td><strong>YEAR 5</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td>Streams: Geomechanics, Transport, Water</td>
<td>BTX3100 Sustainability</td>
</tr>
<tr>
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<td>management CIV4210 Project A</td>
<td>regulation for business</td>
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<td></td>
<td>Replace with EN1413 from 2022, See</td>
<td></td>
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<tr>
<td></td>
<td>footnote</td>
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<tr>
<td></td>
<td>Streams: Geomechanics, Transport, Water</td>
<td>ENE3608 Environmental</td>
</tr>
<tr>
<td></td>
<td>management CIV4212 Civil and</td>
<td>impact assessment and</td>
</tr>
<tr>
<td></td>
<td>environmental engineering practice</td>
<td>management systems</td>
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<tr>
<td></td>
<td></td>
<td>Replace with ENE4042</td>
</tr>
<tr>
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<td>from 2020</td>
</tr>
<tr>
<td></td>
<td>Replace with EN1413 from 2022, See</td>
<td></td>
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<td></td>
<td>footnote</td>
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<tr>
<td><strong>YEAR 5</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td>ENE4607 Environmental risk assessment</td>
<td>CIV4286 Project</td>
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<td>Replace with EN1414 from 2022, See</td>
<td>management for civil</td>
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<tr>
<td></td>
<td>footnote</td>
<td>engineers</td>
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</tr>
</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 the level 4 technical elective (the 6 CP elective that counts towards the Part C and D of the course requirement) for the FYP or by dropping ENE4607 or BTX3100 (if you haven’t already completed these units by 2021).
- Please seek course advice from the Student Services at the Faculty of Engineering.
- CIV4210 – If you are course-completing in 2022/S1, complete CIV4210 (if undertaking 6CP FYP only) or CIV4211 (if undertaking 12CP FYP). Otherwise, replace CIV4210 with ENG4701 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.
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. The map is subject to updates. Update version: 12 September 2022

### E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

**Specialisations - Environmental engineering and Mathematical economics and econometrics**

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Environmental Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR 1</strong>&lt;br&gt;Semester 1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
</tr>
<tr>
<td><strong>YEAR 1</strong>&lt;br&gt;Semester 2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Environmental engineering mathematics</th>
<th>Economics discipline (Compulsory) at Level 2/3</th>
<th>Commerce elective</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Groundwater and environmental mechanics</th>
<th>Thermodynamics 1</th>
<th>Economics discipline (Compulsory) at Level 3</th>
<th>Commerce elective</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>The air environment</th>
<th>Engineering hydrology</th>
<th>Mathematical economics</th>
<th>Commerce elective</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Streams: Geomechanics, Transport, Water management</th>
<th>Sustainability regulation for business</th>
<th>Environmental impact assessment and management systems</th>
<th>Commerce elective</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Environmental risk assessment</th>
<th>Streams: Geomechanics, Transport, Water management</th>
<th>Project management for civil engineers</th>
<th>Principles of econometrics (capstone)</th>
</tr>
</thead>
</table>

| Footnote | If two foundation units are required then overload is required for PHS1080 Foundation physics Replaced by PHS3003 from 2018 |

**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 ENG4701 and ENG4702.
- Please seek course advice from the Student Services at the Faculty of Engineering.
- **CIV4210** – If you are course-completing in 2022/23, complete CIV4210 (if undertaking 8CP FYP only) or CIV4211 (if undertaking 12CP FYP). Otherwise, replace CIV4210 with ENG4701 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.
Course progression map for 2017 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. The map is subject to updates. Update version: 12 September 2022

**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

Specialisations - Materials engineering and Actuarial science

<table>
<thead>
<tr>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Actuarial Science</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR 1</strong></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
</tr>
<tr>
<td><strong>YEAR 2</strong></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>MTE2541 Crystal structures, thermodynamics and phase equilibria See footnote 1</td>
<td>MTE2544 Functional materials Replace with MTE2202 from 2021 (Semester 2 offering)</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>MTE2542 Microstructural development Replace with MTE2102 from 2021 (Semester 1 offering)</td>
<td>ENG2005 Advanced engineering maths</td>
</tr>
<tr>
<td><strong>YEAR 3</strong></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>MTE3541 Materials durability Replace with MTE3103 from 2022</td>
<td>MTE2546 Mechanics of materials Replace with MTE2103 from 2021</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>MTE3545 Functional materials and devices Replace with MTE2102 from 2022</td>
<td>MTE2545 Polymers and ceramics 1 See footnote 2</td>
</tr>
<tr>
<td><strong>YEAR 4</strong></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>MTE3543 Microstructure to applications: The mechanics of materials See footnote 3</td>
<td>MTE3542 Microstructural design in structural materials Replace with MTE3102 from 2022</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>MTE3547 Materials characterisation and modelling See footnote 1</td>
<td>MTE3546 Polymers and ceramics 2 Replace with MTE3102 from 2022</td>
</tr>
<tr>
<td><strong>YEAR 5</strong></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>MTE4525 Project 1 Replace with EME4700 from 2021/22</td>
<td>MTE4571 Materials engineering design and practice See footnote 3</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>MTE4526 Project 2 Replace with EME4702 from 2022</td>
<td>Level 4 or 5 materials engineering technical elective</td>
</tr>
</tbody>
</table>

Note:
- MINORS AND ELECTIVES LIST is located on the Faculty’s current student course information webpage.
- 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. MTE2201 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.
- 4. 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.
- 5. 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.
- 6. For enrolment advice, please refer to the Course Advisers webpage.
### Course progression map for 2017 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. The map is subject to updates. Update version: 12 September 2022

#### E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

**Specialisations - Materials engineering and Finance**

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
<td>ETC1000 Business and economic statistics</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
<td>ECC1000 Principles of Microeconomics</td>
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<tr>
<td>2</td>
<td>1</td>
<td>MTE2541 Crystal structures, thermodynamics and phase equilibria</td>
<td>BFC1001 Foundations of finance</td>
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<tr>
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<td>MTE2544 Functional materials</td>
<td>ECC1100 Principles of macroeconomics</td>
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<td>See footnote 1</td>
<td>If two foundation units are required then overload is required for PHS1080 Foundation physics</td>
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<tr>
<td>2</td>
<td>2</td>
<td>MTE2542 Microstructural development</td>
<td>ETC2410 Introductory econometrics</td>
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<td>Replace with MTE2102 from 2021 (Semester 1 offering)</td>
<td>BFC2140 Corporate finance 1</td>
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<td>MTE3541 Materials durability</td>
<td>ACC1100 Introduction to financial accounting or ACC1200 Accounting for managers</td>
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<td>Replace with MTE103 from 2022.</td>
<td>BFC3140 Corporate finance 2</td>
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<tr>
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<td>MTE3546 Functional materials and devices</td>
<td>BFC3540 Modelling in finance</td>
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<td>Replace with MTE202 from 2022.</td>
<td>BFC2751 Derivatives 1</td>
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<td>MTE3543 Microstructure to applications: The mechanics of materials</td>
<td>BFC2340 Debt markets and fixed income securities</td>
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<td>See footnote 3</td>
<td>ETC3460 Financial econometrics</td>
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<td>MTE3547 Materials characterisation and modelling</td>
<td>BFC3240 International finance</td>
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<td>See footnote 1</td>
<td>BFC3340 Derivatives 2</td>
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<td>MTE4526 Project 1</td>
<td>BFC2240 Equities and investment analysis</td>
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<td>BFC3999 Finance and society (capstone)</td>
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<tr>
<td>5</td>
<td>2</td>
<td>MTE4527 Project 2</td>
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<td>Replace with ENG102 from 2022</td>
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</tbody>
</table>

**Note:**

- MINORS AND ELECTIVES LIST is located on the Faculty’s current student course information webpage.

**Important:**

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.
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3. You must complete the (MTE343+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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CRICOS Provider Number: 00006C

While the information provided herein was correct at the time of viewing and printing, Monash University reserves the right to alter procedures, fees and regulations should the need arise. Students should carefully read all official correspondence, other sources of information for students and the official university noticeboards to be aware of changes to the information contained herein. The inclusion in a publication of details of a course in no way creates an obligation on the part of the university to teach it in any given year, or to teach it in the manner described. The university reserves the right to discontinue or vary courses at any time without notice. Students should always check with the relevant faculty offices when planning their courses. Some courses and units are described which may alter or may not be offered due to insufficient enrolments or changes to teaching personnel.
## Course progression map for 2017 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. The map is subject to updates. Update version: 12 September 2022

### E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

#### Specialisations - Materials engineering and Economics and economic policy

<table>
<thead>
<tr>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR 1</strong></td>
<td><strong>YEAR 1</strong></td>
</tr>
<tr>
<td>Semester 1</td>
<td>Semester 1</td>
</tr>
<tr>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
</tr>
<tr>
<td>Foundation unit or ENG1060 Computing for engineers</td>
<td>ETC1000 Business and economic statistics</td>
</tr>
</tbody>
</table>

| **YEAR 2** | **YEAR 2** |
| Semester 1 | Semester 1 |
| MTE2541 Crystal structures, thermodynamics and phase equilibria (See footnote 1) | MTE2544 Functional materials (Replace with MTE2102 from 2021 (Semester 2 offering)) |
| ECC1100 Principles of macroeconomics | ECC2000 Intermediate microeconomics |

| **Semester 2** | **Semester 2** |
| ENG1002 Engineering design: cleaner, safer, smarter or ENG1001 | ENG1005 Engineering mathematics or ENG1003 |
| Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1) | ETC1000 Principles of microeconomics |

| **Semester 2** | **Semester 2** |
| MTE2542 Microstructural development (Replace with MTE2102 from 2021 (Semester 1 offering)) | ENG2005 Advanced engineering maths |
| Economics discipline (Compulsory - list b or a) at Level 2 | Economics discipline (Compulsory - list b or a) at Level 2 |

| **YEAR 3** | **YEAR 3** |
| Semester 1 | Semester 1 |
| MTE3541 Materials durability (Replace with MTE3101 from 2022) | MTE2546 Mechanics of materials (Replace with MTE3101 from 2021) |
| Economics discipline (Compulsory – List a) at Level 3 | Economics discipline (Compulsory – List a) at Level 3 |

| **Semester 2** | **Semester 2** |
| MTE3545 Functional materials and devices (Replace with MTE3202 from 2022) | MTE2545 Polymers and ceramics 1 (See footnote 2) |
| Economics discipline (Compulsory – List a) at Level 3 | ETC2410 Introductory economics |

| **YEAR 4** | **YEAR 4** |
| Semester 1 | Semester 1 |
| MTE3543 Microstructure to applications: The mechanics of materials (See footnote 3) | MTE3542 Microstructural design in structural materials (Replace with MTE3102 from 2022) |
| Economics discipline (Compulsory – List a) at Level 3 | Commerce elective |

| **Semester 2** | **Semester 2** |
| MTE3547 Materials characterisation and modelling (See footnote 3) | MTE3546 Polymers and ceramics 2 (Replace with MTE3102 from 2022) |
| ECC3690 International economics (Capstone) | Commerce elective |

| **YEAR 5** | **YEAR 5** |
| Semester 1 | Semester 1 |
| MTE4525 Project 1 (Replace with MTE4526 from 2021) | MTE4571 Materials engineering design and practice (See footnote 3) |
| MTE4572 Polymer and composite processing and engineering (See footnote 3) | MTE4573 Processing and engineering of metals and ceramics (See footnote 3) |

| **Semester 2** | **Semester 2** |
| MTE4526 Project 2 (Replace with MTE4527 from 2022) | Level 4 or 5 materials engineering technical elective |
| Commerce elective | Commerce elective |

### Note:

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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. **MTE2201 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.

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### E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

**Specialisations - Materials engineering and Mathematical economics and econometrics**

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ETC1000 Business and economic statistics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
<td>Engineering elective or ENG1060 Computing for engineers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If two foundation units are required then overload is required for PHS1080 Foundation physics</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE2541 Crystal structures, thermodynamics and phase equilibria</td>
<td>MTE2544 Functional materials</td>
<td>ECC2000 Intermediate microeconomics</td>
</tr>
<tr>
<td>(see footnotes 1)</td>
<td>Replace with MTE2502 from 2021 (Semester 2 offering)</td>
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<table>
<thead>
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<th>Bachelor of Economics</th>
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<tbody>
<tr>
<td>MTE2542 Microstructural development</td>
<td>ENG2005 Advanced engineering maths</td>
<td>ECC1100 Principles of microeconomics</td>
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<tr>
<td>Replace with MTE2102 from 2022 (Semester 1 offering)</td>
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<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
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<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE3541 Materials durability</td>
<td>MTE2546 Mechanics of materials</td>
<td>Economics discipline (Compulsory) at Level 2/3</td>
</tr>
<tr>
<td>Replace with MTE3102 from 2022.</td>
<td>Replace with MTE2103 from 2021</td>
<td>Economics discipline (Compulsory) Part 1 of pair list</td>
</tr>
<tr>
<td></td>
<td>Economics discipline (Compulsory) Part 2 of pair list</td>
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<table>
<thead>
<tr>
<th>Year 3 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE3545 Functional materials and devices</td>
<td>MTE2545 Polymers and ceramics 1</td>
<td>Economics discipline (Compulsory)</td>
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<tr>
<td>Replace with MTE3002 from 2022.</td>
<td>See footnote 2</td>
<td>At Level 3</td>
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<thead>
<tr>
<th>Year 4 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Economics</th>
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</thead>
<tbody>
<tr>
<td>MTE3543 Microstructure to applications: The mechanics of materials</td>
<td>MTE3542 Microstructural design in structural materials</td>
<td>Economics discipline (Compulsory)</td>
</tr>
<tr>
<td>See footnote 3.</td>
<td>Replace with MTE3102 from 2022.</td>
<td>At Level 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE3547 Materials characterisation and modelling</td>
<td>MTE3546 Polymers and ceramics 2</td>
<td>ECC3840 Mathematical economics</td>
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<tr>
<td>See footnote 1.</td>
<td>Replace with MTE3102 from 2022.</td>
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<table>
<thead>
<tr>
<th>Year 5 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Economics</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 ENG4701 from 2021/22</td>
<td>See footnote 3</td>
<td>See footnote 3</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Year 5 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE4526 Project 2</td>
<td>Replace with ENG4702 from 2022.</td>
<td>MTE4573 Processing and engineering of metals and ceramics</td>
</tr>
<tr>
<td>Level 4 or 5 materials engineering technical elective</td>
<td>See footnote 3</td>
<td>ETC3400 Principles of econometrics (capstone)</td>
</tr>
</tbody>
</table>

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## E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

### Specialisations - Mechanical engineering and Actuarial science

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Actuarial Science</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>ENG1001 Engineering design: lighter, faster,</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
<td>If two foundation units are required then overload is required for PHS1080 Foundation physics. *This unit is replaced by PHS1001 Foundation physics from 2018.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>stronger or ENG1002</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>ENG1002 Engineering design: cleaner, safer,</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>smarter or ENG1001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>MEC2403 Mechanics of materials</td>
<td>MEC2401 Dynamics 1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>MEC2404 Mechanics of fluids</td>
<td>ENG2005 Advanced engineering mathematics</td>
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</tr>
<tr>
<td>3</td>
<td>1</td>
<td>MEC2402 Engineering design 1</td>
<td>MEC3456 Engineering computational mechanics</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>MEC3457 Systems and control</td>
<td>MEC2405 Thermodynamics</td>
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<tr>
<td>4</td>
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<td>MEC3455 Solid mechanics</td>
<td>MEC3451 Fluid mechanics 2</td>
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<tr>
<td>4</td>
<td>2</td>
<td>MEC3453 Dynamics 2</td>
<td>MEC3416 Engineering design 2</td>
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<tr>
<td>5</td>
<td>1</td>
<td>MEC4401 Final year project</td>
<td>MEC4404 Professional Practice</td>
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<tr>
<td>5</td>
<td>2</td>
<td>MEC4402 Final year project – Thesis</td>
<td>MEC4407 Engineering design 3</td>
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</tr>
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</table>

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## E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

### Specialisations - Mechanical engineering and Finance

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1001</td>
<td>Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
</tr>
<tr>
<td>ENG1002</td>
<td>Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
</tr>
</tbody>
</table>

YEAR 1 Semester 2

<table>
<thead>
<tr>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
<td>ETC1000 Business and economic statistics</td>
</tr>
<tr>
<td>Engineering elective or ENG1006 Computing for engineers (if not taken in Sem 1)</td>
<td>ECC1000 Principles of microeconomics</td>
</tr>
</tbody>
</table>

YEAR 2 Semester 1

<table>
<thead>
<tr>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEC2403 Mechanics of materials</td>
<td>BFC1001 Foundations of finance</td>
</tr>
<tr>
<td>MEC2402 Engineering design 1 Unit title change in 2021</td>
<td>ACC1100 Introduction to financial accounting or ACC1200 Accounting for managers</td>
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</table>

YEAR 2 Semester 2

<table>
<thead>
<tr>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEC2404 Mechanics of fluids</td>
<td>ETC2410 Introductory econometrics</td>
</tr>
<tr>
<td>ENG2005 Advanced engineering mathematics</td>
<td>BFC2140 Corporate finance 1</td>
</tr>
</tbody>
</table>

YEAR 3 Semester 1

<table>
<thead>
<tr>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEC3456 Engineering computational mechanics</td>
<td>BFC3140 Corporate finance 2</td>
</tr>
<tr>
<td>MEC3408 Engineering design 2 Unit title change in 2021</td>
<td>BFC3540 Modelling in finance</td>
</tr>
</tbody>
</table>

YEAR 3 Semester 2

<table>
<thead>
<tr>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEC3451 Fluid mechanics 2</td>
<td>BFC3240 International finance</td>
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</table>

YEAR 4 Semester 1

<table>
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<tr>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEC3404 Professional Practice</td>
<td>ETC3460 Financial econometrics</td>
</tr>
<tr>
<td>MEC4408 Thermodynamics and heat transfer</td>
<td>BFC2240 Equities and investment analysis</td>
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YEAR 4 Semester 2

<table>
<thead>
<tr>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEC4407 Engineering design 3 Unit title change from 2021</td>
<td>BFC3999 Finance and society (capstone)</td>
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YEAR 5 Semester 1

<table>
<thead>
<tr>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEC4401 Final year project Replace with ENG4701 from 2021/22</td>
<td>MEC4404 Professional Practice</td>
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YEAR 5 Semester 2

<table>
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<tr>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEC4402 Final year project – Thesis Replace with ENG4702 from 2022</td>
<td>MEC4407 Engineering design 1 Unit title change from 2021</td>
</tr>
</tbody>
</table>

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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

Specialisations - Mechanical engineering and Economics and economic policy

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Bachelor of Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ETC1000 Business and economic statistics</td>
</tr>
<tr>
<td>1</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ECC1000 Principles of microeconomics</td>
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</tbody>
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<table>
<thead>
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<th>Year</th>
<th>Semester 1</th>
<th>Bachelor of Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>MEC2403 Mechanics of materials</td>
<td>MEC2401 Dynamics 1</td>
<td>ECC1100 Principles of macroeconomics</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ECC2000 Intermediate microeconomics</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Bachelor of Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>MEC2402 Engineering design 1</td>
<td>MEC3456 Engineering computational mechanics</td>
<td>Economics discipline (Compulsory – List a) at Level 3</td>
</tr>
<tr>
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<td>(Unit title change in 2021)</td>
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<td>Economics discipline (Compulsory - list b or a) at Level 2</td>
</tr>
<tr>
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<td>MEC3457 Systems and control</td>
<td>MEC2405 Thermodynamics</td>
<td>Economics discipline (Compulsory – List a) at Level 3</td>
</tr>
<tr>
<td>4</td>
<td>MEC3455 Solid mechanics</td>
<td>MEC3451 Fluid mechanics 2</td>
<td>Economics discipline (Compulsory – List a) at Level 3</td>
</tr>
<tr>
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<td></td>
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<td>Commerce elective</td>
</tr>
<tr>
<td>4</td>
<td>MEC3453 Dynamics 2</td>
<td>MEC3416 Engineering design 2 (Unit title change in 2021)</td>
<td>ECC3690 International economics (Capstone)</td>
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<td>Commerce elective</td>
</tr>
<tr>
<td>5</td>
<td>MEC4401 Final year project Replace with ENG4701 from 2021/22</td>
<td>MEC4404 Professional Practice</td>
<td>MEC4408 Thermodynamics and heat transfer</td>
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<tr>
<td></td>
<td></td>
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<td>Commerce elective</td>
</tr>
<tr>
<td>5</td>
<td>MEC4402 Final year project – Thesis Replace with ENG4702 from 2022</td>
<td>MEC4407 Engineering design 3 (Unit title change from 2021)</td>
<td>MEC4426 Computer-aided design</td>
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<tr>
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<td>Commerce elective</td>
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E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

Specialisations - Mechanical engineering and Mathematical Economics and econometrics

<table>
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<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
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<tr>
<td></td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
</tr>
<tr>
<td></td>
<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
<td>MEC2403 Mechanics of materials</td>
<td>ECC2000 Intermediate microeconomics</td>
</tr>
<tr>
<td></td>
<td>MEC2401 Dynamics 1</td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td>MEC2404 Mechanics of fluids</td>
<td>Economics discipline (Compulsory) at Level 2/3</td>
</tr>
<tr>
<td></td>
<td>ENG2005 Advanced engineering mathematics</td>
<td></td>
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<td></td>
<td>ETC2410 Introductory econometrics</td>
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<table>
<thead>
<tr>
<th>Year 3</th>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
<td>MEC2402 Engineering design 1 (Unit title change in 2021)</td>
<td>Economics discipline (Compulsory) Part 1 of pair list</td>
</tr>
<tr>
<td></td>
<td>MEC3456 Engineering computational mechanics</td>
<td></td>
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<tr>
<td>Semester 2</td>
<td>MEC3457 Systems and control</td>
<td>Economics discipline (Compulsory) Part 2 of pair list</td>
</tr>
<tr>
<td></td>
<td>MEC2405 Thermodynamics</td>
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<td></td>
<td>Economics discipline (Compulsory) at Level 3</td>
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<table>
<thead>
<tr>
<th>Year 4</th>
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</tr>
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<tbody>
<tr>
<td>Semester 1</td>
<td>MEC3455 Solid mechanics</td>
<td>Economics discipline (Compulsory) at Level 3</td>
</tr>
<tr>
<td></td>
<td>MEC3451 Fluid mechanics 2</td>
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<tr>
<td>Semester 2</td>
<td>MEC3453 Dynamics 2</td>
<td>Commerce elective</td>
</tr>
<tr>
<td></td>
<td>MEC3416 Engineering design 2 (Unit title change in 2021)</td>
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</tr>
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<td>ECC3840 Mathematical economics</td>
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<table>
<thead>
<tr>
<th>Year 5</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
<td>MEC4401 Final year project</td>
<td>Commerce elective</td>
</tr>
<tr>
<td></td>
<td>Replace with ENG4701 from 2021/22</td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td>MEC4402 Final year project – Thesis</td>
<td>Commerce elective</td>
</tr>
<tr>
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<td>Replace with ENG4702 from 2022</td>
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<tr>
<td></td>
<td>MEC4407 Engineering design 3 (Unit title change from 2021)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MEC4426 Computer-aided design</td>
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</tr>
</tbody>
</table>

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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

**Specialisations - Mechatronics engineering and Actuarial science**

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Bachelor of Mechatronics Engineering (Honours)</th>
<th>Bachelor of Actuarial Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Semester 1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
</tr>
<tr>
<td>Year 1</td>
<td>Semester 2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</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 Introduction 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</td>
<td>TRC4800 Robotics</td>
</tr>
<tr>
<td>Year 5</td>
<td>Semester 2</td>
<td>TRC4001 Mechatronics final year project 2</td>
<td>TRC4902 Mechatronics and manufacturing</td>
</tr>
</tbody>
</table>

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# Course progression map for 2017 commencing students

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## E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

### Specialisations - Mechatronics engineering and Finance

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Bachelor of Mechatronics Engineering (Honours)</th>
<th>Bachelor of Finance</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>TRC2000 Sensors and artificial perception</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
<td>ACC3100 Introduction to financial accounting or ACC1200 Accounting for managers</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>TRC3600 Modelling and control</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
<td>TRC3000 Mechatronics project 2</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>ECE2071 Computer organisation and programming</td>
<td>TRC2001 Introduction to systems engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ECE2131 Electrical circuits</td>
<td>BFC2410 Introductory econometrics</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>ENG2005 Advanced engineering mathematics</td>
<td>TRC2201 Mechanics</td>
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<tr>
<td></td>
<td></td>
<td>TRC2201 Mechanics</td>
<td>ETC2410 Introductory econometrics</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>TRC3200 Dynamical systems</td>
<td>BFC3540 Modelling in finance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MEC2402 Engineering design 1 Unit the change in 2021</td>
<td>BFC2340 Debt markets and fixed income securities</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>MEC2402 Engineering design 2</td>
<td>ACC3100 Introduction to financial accounting or ACC1200 Accounting for managers</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>TRC3600 Modelling and control</td>
<td>BFC3240 International finance</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>TRC4000 Mechatronics final year project 1 Replace with ENG4702 from 2021/22</td>
<td>TRC4800 Robotics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TRC3802 Thermo-fluids and power systems Unit is re-coded TRC4803 from 2018</td>
<td>MEC4418 Control systems</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>TRC4001 Mechatronics final year project 2 Replace with ENG4702 from 2022</td>
<td>TRC4002 Professional practice</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>TRC4000 Mechatronics final year project 1 Replace with ENG4702 from 2021/22</td>
<td>TRC4901 Robotics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TRC4001 Mechatronics final year project 2</td>
<td>TRC4002 Professional practice</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>TRC4901 Mechatronics final year project 2</td>
<td>TRC4902 Mechatronics and manufacturing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TRC4901 Mechatronics final year project 2</td>
<td>TRC4902 Mechatronics and manufacturing</td>
</tr>
</tbody>
</table>

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[Source](http://www.monash.edu.au/pubs/2017handbooks/maps/map-e3003.pdf) | CRICOS Provider Number: 00008C

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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

**Specialisations - Mechatronics engineering and Economics and economic policy**

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Mechatronics Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</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</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
</tr>
<tr>
<td>YEAR 2 Semester 1</td>
<td>ECE2071 Computer organisation and programming</td>
<td>ECE2131 Electrical circuits</td>
</tr>
<tr>
<td>YEAR 2 Semester 2</td>
<td>ENG2005 Advanced engineering mathematics</td>
<td>TRC2201 Mechanics</td>
</tr>
<tr>
<td>YEAR 3 Semester 1</td>
<td>TRC3200 Dynamical systems</td>
<td>MEC2402 Engineering design 1 Unit title change in 2021</td>
</tr>
<tr>
<td>YEAR 3 Semester 2</td>
<td>ECE3161 Analogue electronics</td>
<td>TRC2001 Introduction to systems engineering</td>
</tr>
<tr>
<td>YEAR 4 Semester 1</td>
<td>TRC3802 Thermo-fluids and power systems Unit re-coded TRC4802 from 2018</td>
<td>TRC3500 Sensors and artificial perception</td>
</tr>
<tr>
<td>YEAR 4 Semester 2</td>
<td>TRC3600 Modelling and control</td>
<td>TRC3000 Mechatronics project 2</td>
</tr>
<tr>
<td>YEAR 5 Semester 1</td>
<td>TRC4000 Mechatronics final year project 1 Backload with ENG1060 from 2021/22</td>
<td>TRC4800 Robotics</td>
</tr>
<tr>
<td>YEAR 5 Semester 2</td>
<td>TRC4001 Mechatronics final year project 2 Backload with ENG1060 from 2022</td>
<td>TRC4902 Mechatronics and manufacturing</td>
</tr>
</tbody>
</table>

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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

Specialisations - Mechatronics engineering and Mathematical economics and econometrics

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Bachelor of Mechatronics Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Semester 1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
</tr>
<tr>
<td>Year 1</td>
<td>Semester 2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
</tr>
</tbody>
</table>

| Year 2 | Semester 1 | ECE2071 Computer organisation and programming | ECE2131 Electrical circuits |
| Year 2 | Semester 2 | ENG2005 Advanced engineering mathematics | TRC2201 Mechanics |

| Year 3 | Semester 1 | TRC3200 Dynamical systems | MEC2402 Engineering design 1 Unit title change in 2021 |
| Year 3 | Semester 2 | ECE3161 Analogue electronics | TRC2001 Introduction to systems engineering |

| Year 4 | Semester 1 | TRC3802 Thermo-fluids and power systems Unit is re-coded TRC4802 from 2018 | TRC3500 Sensors and artificial perception |
| Year 4 | Semester 2 | TRC3600 Modelling and control | TRC3000 Mechatronics project 2 |

| Year 5 | Semester 1 | TRC4000 Mechatronics final year project 1 Replace with ENG4701 from 2019/2022 | TRC4800 Robotics |
| Year 5 | Semester 2 | TRC4901 Mechatronics final year project 2 Replace with ENG4702 from 2022 | TRC4902 Mechatronics and manufacturing |

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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

Specialisations - Software engineering and Actuarial science

<table>
<thead>
<tr>
<th>YEAR 1 Semester 1</th>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Actuarial Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</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</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>YEAR 2 Semester 1</th>
<th>FIT2085 Introduction to computer science</th>
<th>MAT1830 Discrete mathematics for computer science</th>
<th>ETC2430 Applied stochastic modelling</th>
<th>ECC1100 Principles of macroeconomics</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEAR 2 Semester 2</td>
<td>FIT2004 Algorithms and data structures</td>
<td>FIT2101 Software engineering process and management</td>
<td>BFC2140 Corporate finance 1</td>
<td>ETC2420 Statistical methods in insurance</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>YEAR 3 Semester 1</th>
<th>FIT3159 Computer architecture</th>
<th>FIT2099 Object oriented design and implementation</th>
<th>BFC2000 Financial institutions and markets</th>
<th>ETC2440 Mathematics for economics and business</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEAR 3 Semester 2</td>
<td>FIT2100 Operating systems</td>
<td>FIT2107 Software quality testing</td>
<td>Actuarial science specialisation unit level 3 (list b)</td>
<td>ACC1100 Introduction to financial accounting</td>
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<table>
<thead>
<tr>
<th>YEAR 4 Semester 1</th>
<th>FIT3170 Software engineering practice</th>
<th>FIT3077 Software engineering: architecture and design</th>
<th>BFC2340 Debt markets and fixed income securities</th>
<th>Actuarial science specialisation unit level 3 (list b)</th>
</tr>
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<tbody>
<tr>
<td>YEAR 4 Semester 2</td>
<td>FIT3171 Databases</td>
<td>Actuarial science specialisation unit level 3 (list b) Actuarial science specialisation unit level 2 (list b)</td>
<td>Actuarial science specialisation unit level 2 (list b)</td>
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<table>
<thead>
<tr>
<th>YEAR 5 Semester 1</th>
<th>FIT4002 Software engineering industry experience studio project</th>
<th>FIT4003 Software engineering research project</th>
<th>FIT4165 Computer networks</th>
<th>ECC1000 Principles of microeconomics</th>
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</thead>
<tbody>
<tr>
<td>YEAR 5 Semester 2</td>
<td>Replace with ENG4701 from 2023</td>
<td>Replace with ENG4702 from 2023</td>
<td>Software engineering technical elective at level 4 or 5</td>
<td>ETC3530 Contingencies in insurance and pensions</td>
</tr>
</tbody>
</table>

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**Specialisations - Software engineering and Finance**

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<th>Bachelor of Software Engineering (Honours)</th>
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</tr>
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<tbody>
<tr>
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<td>ENG1005 Engineering mathematics or ENG1003</td>
<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
</tr>
</tbody>
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<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Finance</th>
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<tbody>
<tr>
<td>FIT2085 Introduction to computer science</td>
<td>MAT1830 Discrete mathematics for computer science</td>
<td>BFC1001 Foundations of finance</td>
</tr>
<tr>
<td>FIT2004 Algorithms and data structures</td>
<td>FIT2101 Software engineering process and management</td>
<td>ETC2410 Introductory econometrics</td>
</tr>
<tr>
<td>FIT3159 Computer architecture</td>
<td>FIT2099 Object oriented design and implementation</td>
<td>ACC1100 Introduction to financial accounting or ACC1200 Accounting for managers</td>
</tr>
<tr>
<td>FIT2100 Operating systems</td>
<td>FIT2107 Software quality testing</td>
<td>BFC3540 Modelling in finance</td>
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</tbody>
</table>

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<thead>
<tr>
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<th>Bachelor of Finance</th>
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</thead>
<tbody>
<tr>
<td>FIT3077 Software engineering: architecture and design</td>
<td></td>
<td>BFC2340 Debt markets and fixed income securities</td>
</tr>
<tr>
<td>FIT3170 Software engineering practice</td>
<td></td>
<td>ETC3460 Financial econometrics</td>
</tr>
<tr>
<td>FIT3171 Databases</td>
<td></td>
<td>BFC3340 Derivatives 2</td>
</tr>
<tr>
<td>FIT4002 Software engineering research project</td>
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<td>BFC2240 Equities and investment analysis</td>
</tr>
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<table>
<thead>
<tr>
<th>Year 5 Semester 1</th>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIT4003 Software engineering research project</td>
<td>FIT4165 Computer networks</td>
<td>BFC2240 Equities and investment analysis</td>
</tr>
<tr>
<td>Replace with ENG4701 from 2023</td>
<td>Software engineering technical elective at level 4 or 5</td>
<td>BFC3999 Finance and society (capstone)</td>
</tr>
</tbody>
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**E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist**

### Specialisations - Software Engineering and Economics and Economic Policy

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1001</td>
<td>Engineering design: lighter, faster, stronger or ENG1002</td>
<td>ENG1003 Engineering mobile apps or ENG1005</td>
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<tr>
<td></td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
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<td></td>
<td>ETC1000 Business and economic statistics</td>
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<thead>
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<th>Year 1 Semester 2</th>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Economics</th>
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<tbody>
<tr>
<td>ENG1002</td>
<td>Engineering design: cleaner, safer, smarter or ENG1001</td>
<td>ENG1005 Engineering mathematics or ENG1003</td>
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<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
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<td>ECC1000 Principles of microeconomics</td>
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<th>Year 2 Semester 1</th>
<th>Bachelor of Software Engineering (Honours)</th>
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<tbody>
<tr>
<td>FIT2085</td>
<td>Introduction to computer science</td>
<td>ECC1100 Principles of macroeconomics</td>
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<tr>
<td>MAT1830</td>
<td>Discrete mathematics for computer science</td>
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<td></td>
<td>ECC2000 Intermediate microeconomics</td>
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<td>Economics discipline (Compulsory - list b or a) at Level 2</td>
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<th>Year 2 Semester 2</th>
<th>Bachelor of Software Engineering (Honours)</th>
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<tbody>
<tr>
<td>FIT2004</td>
<td>Algorithms and data structures</td>
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<td>FIT2101</td>
<td>Software engineering process and management</td>
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<tr>
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<thead>
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<th>Year 3 Semester 1</th>
<th>Bachelor of Software Engineering (Honours)</th>
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<tbody>
<tr>
<td>FIT3159</td>
<td>Computer architecture</td>
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<tr>
<td>FIT2099</td>
<td>Object oriented design and implementation</td>
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</tr>
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<td>Economics discipline (Compulsory – List a) at Level 3</td>
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<table>
<thead>
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<th>Year 3 Semester 2</th>
<th>Bachelor of Software Engineering (Honours)</th>
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<tbody>
<tr>
<td>FIT2100</td>
<td>Operating systems</td>
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<tr>
<td>FIT2107</td>
<td>Software quality testing</td>
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<td>Economics discipline (Compulsory – List a) at Level 3</td>
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<tr>
<td></td>
<td>ETC2410 Introductory econometrics</td>
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<table>
<thead>
<tr>
<th>Year 4 Semester 1</th>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Economics</th>
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<tbody>
<tr>
<td>FIT3170</td>
<td>Software engineering practice</td>
<td></td>
</tr>
<tr>
<td>FIT3077</td>
<td>Software engineering: architecture and design</td>
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</tr>
<tr>
<td></td>
<td>Economics discipline (Compulsory – List a) at Level 3</td>
<td></td>
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<td></td>
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<table>
<thead>
<tr>
<th>Year 4 Semester 2</th>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Economics</th>
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<tbody>
<tr>
<td>FIT3171</td>
<td>Databases</td>
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<tr>
<td></td>
<td>ECC3690 International economics (Capstone)</td>
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<table>
<thead>
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<th>Year 5 Semester 1</th>
<th>Bachelor of Software Engineering (Honours)</th>
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<tbody>
<tr>
<td>FIT4002</td>
<td>Software engineering industry experience studio project</td>
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<tr>
<td>FIT4003</td>
<td>Software engineering research project</td>
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<tr>
<td>FIT4165</td>
<td>Computer networks</td>
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<tbody>
<tr>
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<td>Software engineering technical elective at level 4 or 5</td>
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<tr>
<td></td>
<td>Commerce elective</td>
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</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/2017handbooks/maps/map-e3003.pdf)

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Course progression map for 2017 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. The map is subject to updates. Update version: 12 September 2022

E3003 Bachelor of Engineering (Honours) and Bachelor of Commerce Specialist

Specialisations - Software engineering and Mathematical economics and econometrics

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Bachelor of Software Engineering (Honours)</th>
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<tbody>
<tr>
<td></td>
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<td>ENG1001 Engineering design: lighter, faster, stronger or ENG1002</td>
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<td>ENG1005 Engineering mathematics or ENG1003</td>
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<tr>
<th>Year 2</th>
<th>Semester 1</th>
<th>FIT2085 Introduction to computer science</th>
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<tr>
<td></td>
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<td>FIT2004 Algorithms and data structures</td>
<td>FIT2101 Software engineering process and management</td>
<td>Economics discipline (Compulsory) at Level 2/3</td>
<td>ETC2410 Introductory econometrics</td>
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<td>FIT3159 Computer architecture</td>
<td>FIT2099 Object oriented design and implementation</td>
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<td>Economics discipline (Compulsory) at Level 2/3</td>
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<td>FIT2100 Operating systems</td>
<td>FIT2107 Software quality testing</td>
<td>Economics discipline (Compulsory) Part 2 of pair list</td>
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<table>
<thead>
<tr>
<th>Year 4</th>
<th>Semester 1</th>
<th>FIT3077 Software engineering: architecture and design</th>
<th>Economics discipline (Compulsory) at Level 3</th>
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<tbody>
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<td>Year 4</td>
<td>Semester 2</td>
<td>FIT3171 Databases</td>
<td>ECC3840 Mathematical economics</td>
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<th>Year 5</th>
<th>Semester 1</th>
<th>FIT4003 Software engineering research project</th>
<th>Fit4165 Computer networks</th>
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<tr>
<td>Year 5</td>
<td>Semester 2</td>
<td>FIT4002 Software engineering industry experience studio project</td>
<td>Software engineering technical elective at level 4 or 5</td>
<td>ETC3400 Principles of econometrics (capstone)</td>
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