E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Common first year

### If no foundation units are required:

<table>
<thead>
<tr>
<th>Year</th>
<th>Sem</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>ENG1001 Engineering design: lighter, faster, stronger</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1005 Engineering mathematics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1060 Computing for engineers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arts major</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1003 Engineering mobile apps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>First year engineering elective unit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arts major</td>
</tr>
</tbody>
</table>

Tip: You can swap the semester of your engineering elective and your semester 1 Arts unit.

### If you need to enrol in foundation physics and maths:

<table>
<thead>
<tr>
<th>Year</th>
<th>Sem</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHS1001 Foundation physics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1090 Foundation mathematics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arts major</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>ENG1001 Engineering design: lighter, faster, stronger</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1005 Engineering mathematics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1060 Computing for engineers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arts major</td>
</tr>
</tbody>
</table>

1. If you are requiring two foundation units, you will need to take the remaining core unit ENG1003 Engineering mobile apps in semester one of year two as an overload, and increase the total credit points needed for the double by 6 points. You cannot swap the semesters of any of the units.

2. If you are wanting to complete Software Engineering, you must complete ENG1003 Engineering mobile apps in Year 1 (Semester 1) and PHS1001 Foundation physics in Year 2 (Semester 1) as an overload.

### If you need to enrol in foundation maths:

<table>
<thead>
<tr>
<th>Year</th>
<th>Sem</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1003 Engineering mobile apps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1090 Foundation mathematics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arts major</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>ENG1001 Engineering design: lighter, faster, stronger</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1005 Engineering mathematics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1060 Computing for engineers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arts major</td>
</tr>
</tbody>
</table>

Tip: You can swap the semester of ENG1003 and your semester 2 Arts unit.

### If you need to enrol in foundation physics:

<table>
<thead>
<tr>
<th>Year</th>
<th>Sem</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1003 Engineering mobile apps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHS1001 Foundation physics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arts major</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>ENG1001 Engineering design: lighter, faster, stronger</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG1005 Engineering mathematics</td>
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<tr>
<td></td>
<td></td>
<td>ENG1060 Computing for engineers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arts major</td>
</tr>
</tbody>
</table>

Tip: You can swap the semester of ENG1003 and your semester 2 Arts unit.

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- For enrolment advice, please refer to the Course advisers webpage.
Course progression map for 2020 commencing students

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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Aerospace engineering

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Common first year</td>
<td>Arts major</td>
</tr>
<tr>
<td>Year 1 Semester 2</td>
<td></td>
<td>Arts major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG2005</td>
<td>Advanced engineering mathematics</td>
<td>Arts minor</td>
</tr>
<tr>
<td>MAE2412</td>
<td>Aerospace design</td>
<td>Arts major</td>
</tr>
<tr>
<td></td>
<td>If two foundation units are required overload is required for ENG1003 Engineering mobile apps</td>
<td></td>
</tr>
<tr>
<td>Year 2 Semester 2</td>
<td>MAE2404 Aerodynamics 1</td>
<td>Arts minor</td>
</tr>
<tr>
<td></td>
<td>MAE2402 Thermodynamics and heat transfer</td>
<td>Arts major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAE2401</td>
<td>Aircraft structures 1</td>
<td>Arts minor</td>
</tr>
<tr>
<td></td>
<td>Unit title change from 2021</td>
<td>Arts major</td>
</tr>
<tr>
<td>MAE3401</td>
<td>Aerodynamics 2</td>
<td>Arts major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 2</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAE2505</td>
<td>Aerospace dynamics</td>
<td>Arts minor</td>
</tr>
<tr>
<td></td>
<td>MAE3405 Flight vehicle propulsion</td>
<td>Arts major</td>
</tr>
<tr>
<td></td>
<td>Unit title change from 2022</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 1</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAE3456</td>
<td>Aerospace computational mechanics</td>
<td>Arts elective</td>
</tr>
<tr>
<td>MAE3404</td>
<td>Flight vehicle dynamics</td>
<td>Arts major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 2</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAE3411</td>
<td>Aerospace structural mechanics</td>
<td>Arts elective</td>
</tr>
<tr>
<td>MAE3408</td>
<td>Aerospace control</td>
<td>Arts major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 1</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN4701</td>
<td>Final year project A</td>
<td>Arts elective</td>
</tr>
<tr>
<td>MAE4410</td>
<td>Flight vehicle design</td>
<td></td>
</tr>
<tr>
<td>MAE4416</td>
<td>Orbital mechanics and spaceflight dynamics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>New unit from 2023</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 2</th>
<th>Bachelor of Aerospace Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN4702</td>
<td>Final year project B</td>
<td>Arts elective</td>
</tr>
<tr>
<td>MAE4404</td>
<td>Aerospace practices</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Unit title change from 2023</td>
<td></td>
</tr>
<tr>
<td>MAE4426</td>
<td>Finite element analysis and composite structures</td>
<td></td>
</tr>
<tr>
<td></td>
<td>New unit from 2023</td>
<td></td>
</tr>
</tbody>
</table>

Note:

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Course progression map for 2020 commencing students

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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Chemical engineering

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Common first year</td>
<td>Arts major</td>
</tr>
<tr>
<td>Year 1 Semester 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Year 2 Semester 1:
- CHM1011 Chemistry 1 (if not already completed at level 1) or CHM1051 Chemistry 1 Advanced
- ENG2005 Advanced engineering mathematics
  - Arts minor
- Arts major

Year 2 Semester 2:
- CHE2162 Material and energy balances
- CHE2161 Mechanics of fluids
  - Arts minor
- Arts major

Year 3 Semester 1:
- CHE2164 Thermodynamics 1
- CHE3167 Transport phenomena and numerical methods
  - Arts minor
- Arts major

Year 3 Semester 2:
- CHE2163 Heat and mass transfer
- CHE3162 Process control
  - Arts minor
- Arts major

Year 4 Semester 1:
- CHE3161 Chemistry and chemical thermodynamics
- CHE3165 Separation processes
  - Arts elective
- Arts major

Year 4 Semester 2:
- CHE3166 Process design
- CHE3164 Reaction engineering
  - Arts elective
- Arts major

Year 5 Semester 1:
- ENG4701 Final year project A
- CHE4162 Particle technology
- CHE4161 Engineer in society
  - Arts elective

Year 5 Semester 2:
- ENG4702 Final year project B
- CHE4170 Design project (12 points)
  - Arts elective

Note:
- CHE4164 and CHE4165 are integrated industrial project units for select students only. The units are undertaken in place of the final year project units ENG4701 and ENG4702. Depending on placement location, you may have to overload a semester or extend an additional semester in order to complete your course.
- CHE4170 - You should not overload in the semester when undertaking this unit.
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## E3002 Bachelor of Engineering (Honours) and Bachelor of Arts
### Specialisation - Civil engineering

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Common first year</strong></td>
<td>Arts major</td>
</tr>
<tr>
<td>Year 1 Semester 2</td>
<td></td>
<td>Arts major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV2282</td>
<td>Transport and traffic engineering</td>
<td>Arts minor</td>
</tr>
<tr>
<td>CIV2206</td>
<td>Structural mechanics</td>
<td>Arts major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 2</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG2005</td>
<td>Advanced engineering mathematics</td>
<td>Arts minor</td>
</tr>
<tr>
<td>CIV2236</td>
<td>Structural materials</td>
<td>Arts major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV2283</td>
<td>Water systems</td>
<td>Arts minor</td>
</tr>
<tr>
<td>CIV3294</td>
<td>Structural design</td>
<td>Arts major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 2</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV2242</td>
<td>Geomechanics 1</td>
<td>Arts minor</td>
</tr>
<tr>
<td>CIV3283</td>
<td>Road engineering</td>
<td>Arts major</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Year 4 Semester 2</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV3247</td>
<td>Geomechanics 2</td>
<td>Arts elective</td>
</tr>
<tr>
<td>CIV3221</td>
<td>Building structures and technology</td>
<td>Arts major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 1</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG4701</td>
<td>Final year project A</td>
<td>Arts elective</td>
</tr>
<tr>
<td>CIV4286</td>
<td>Project management for civil engineers</td>
<td></td>
</tr>
<tr>
<td>CIV4280</td>
<td>Bridge design and assessment</td>
<td>Arts elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 2</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG4702</td>
<td>Final year project B</td>
<td>Arts elective</td>
</tr>
<tr>
<td>CIV4212</td>
<td>Civil and environmental engineering practice</td>
<td></td>
</tr>
<tr>
<td>CIV4288</td>
<td>Water treatment</td>
<td>Arts elective</td>
</tr>
</tbody>
</table>

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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Electrical and computer systems engineering

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Electrical and Computer Systems Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Common first year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts major</td>
<td></td>
</tr>
<tr>
<td>Year 1 Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year 2 Semester 1</td>
<td>ENG2005 Advanced engineering mathematics</td>
<td>Arts minor</td>
</tr>
<tr>
<td></td>
<td>ECE2071 Computer organisation and programming</td>
<td>Arts major</td>
</tr>
<tr>
<td></td>
<td>If two foundation units are required then overload is required for ENG1003 Engineering mobile apps</td>
<td></td>
</tr>
<tr>
<td>Year 2 Semester 2</td>
<td>ECE2072 Digital systems (if not already taken at level one)</td>
<td>Arts minor</td>
</tr>
<tr>
<td></td>
<td>ECE2191 Probability models in engineering</td>
<td>Arts major</td>
</tr>
<tr>
<td>Year 3 Semester 1</td>
<td>ECE2131 Electrical circuits</td>
<td>Arts minor</td>
</tr>
<tr>
<td></td>
<td>ECE3073 Computer systems</td>
<td>Arts major</td>
</tr>
<tr>
<td>Year 3 Semester 2</td>
<td>ECE2111 Signals and systems</td>
<td>Arts minor</td>
</tr>
<tr>
<td></td>
<td>ECE3121 Engineering electromagnetics</td>
<td>Arts major</td>
</tr>
<tr>
<td>Year 4 Semester 1</td>
<td>ECE3161 Analogue electronics</td>
<td>Arts elective</td>
</tr>
<tr>
<td></td>
<td>ECE3141 Information and networks</td>
<td>Arts major</td>
</tr>
<tr>
<td>Year 4 Semester 2</td>
<td>ECE4132 Control system design</td>
<td>Arts elective</td>
</tr>
<tr>
<td></td>
<td>Level 4 ECSE technical elective</td>
<td>Arts major</td>
</tr>
<tr>
<td>Year 5 Semester 1</td>
<td>ENG4701 Final year project A</td>
<td>Arts elective</td>
</tr>
<tr>
<td></td>
<td>Level 4 ECSE technical elective</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECE3051 Electrical energy systems</td>
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</tr>
<tr>
<td></td>
<td>ENG0001 Continuous Professional Development (0 credit points)</td>
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</tr>
<tr>
<td>Year 5 Semester 2</td>
<td>ENG4702 Final year project B</td>
<td>Arts elective</td>
</tr>
<tr>
<td></td>
<td>ECE4191 Engineering integrated design</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECE4099 Professional practice</td>
<td></td>
</tr>
</tbody>
</table>

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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Environmental engineering

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Environmental Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Common first year</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>Bachelor of Environmental Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BTX3100 Sustainability regulation for business</td>
<td>Arts minor</td>
</tr>
<tr>
<td></td>
<td>ENE2021 Energy and the environment</td>
<td>Arts major</td>
</tr>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 2</th>
<th>Bachelor of Environmental Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENG2005 Advanced engineering mathematics</td>
<td>Arts minor</td>
</tr>
<tr>
<td></td>
<td>CHE2162 Material and energy balances</td>
<td>Arts major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>Bachelor of Environmental Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CHE2164 Thermodynamics 1</td>
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<td>CIV2263 Water systems</td>
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<table>
<thead>
<tr>
<th>Year 3 Semester 2</th>
<th>Bachelor of Environmental Engineering (Honours)</th>
<th>Bachelor of Arts</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>ENE3031 Building sustainability</td>
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</tr>
<tr>
<td></td>
<td>ENE2503 Materials properties and recycling</td>
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<table>
<thead>
<tr>
<th>Year 4 Semester 1</th>
<th>Bachelor of Environmental Engineering (Honours)</th>
<th>Bachelor of Arts</th>
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<tbody>
<tr>
<td></td>
<td>CIV3248 Groundwater and environmental geomechanics</td>
<td>Arts elective</td>
</tr>
<tr>
<td></td>
<td>CIV3285 Engineering hydrology</td>
<td>Arts major</td>
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</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 2</th>
<th>Bachelor of Environmental Engineering (Honours)</th>
<th>Bachelor of Arts</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>ENE3032 Fate and transport of contaminants</td>
<td>Arts elective</td>
</tr>
<tr>
<td></td>
<td>ENE3606 The air environment</td>
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<table>
<thead>
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<th>Year 5 Semester 1</th>
<th>Bachelor of Environmental Engineering (Honours)</th>
<th>Bachelor of Arts</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>ENG4701 Final year project A</td>
<td>Arts elective</td>
</tr>
<tr>
<td></td>
<td>CIV4236 Project management for civil engineers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENE4042 Environment impact and risk assessment</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 2</th>
<th>Bachelor of Environmental Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENG4702 Final year project B</td>
<td>Arts elective</td>
</tr>
<tr>
<td></td>
<td>CIV4212 Civil and environmental engineering practice</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENE4041 Soil remediation and solid waste management</td>
<td></td>
</tr>
</tbody>
</table>

Note:
- The Sustainable processing stream is not available in a double degree as it requires extra prerequisites in the elective space.
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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Materials engineering

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Common first year</td>
<td>Arts major</td>
</tr>
<tr>
<td>Year 1 Semester 2</td>
<td></td>
<td>Arts major</td>
</tr>
<tr>
<td>Year 2 Semester 1</td>
<td>MTE2101 Atomic-scale structure of materials</td>
<td>MTE2102 Phase equilibria and phase transformations</td>
</tr>
<tr>
<td>Year 2 Semester 2</td>
<td>MTE2202 Functional materials 1</td>
<td>ENG2005 Advanced engineering mathematics</td>
</tr>
<tr>
<td>Year 3 Semester 1</td>
<td>MTE2103 Mechanical properties of materials</td>
<td>MTE3103 Materials life cycle</td>
</tr>
<tr>
<td>Year 3 Semester 2</td>
<td>MTE2201 Polymers</td>
<td>MTE3203 Introduction to ceramics: Properties, processing and applications</td>
</tr>
<tr>
<td>Year 4 Semester 1</td>
<td>MTE3101 Materials in a complex world 1: People, projects and data</td>
<td>MTE3102 Plasticity of metals and alloys</td>
</tr>
<tr>
<td>Year 4 Semester 2</td>
<td>MTE3201 Materials in a complex world 2: Characterisation, identification and selection</td>
<td>MTE3202 Functional materials 2</td>
</tr>
<tr>
<td>Year 5 Semester 1</td>
<td>ENG4701 Final year project A</td>
<td>MTE4101 Integrated design project</td>
</tr>
<tr>
<td>Year 5 Semester 2</td>
<td>ENG4702 Final year project B</td>
<td>MTE4201 Materials in a complex world 3: Impact in society</td>
</tr>
</tbody>
</table>

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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Mechanical engineering

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common first year</td>
<td>Arts major</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>MEC2403 Mechanics of materials</th>
<th>MEC2401 Dynamics 1</th>
<th>Arts minor</th>
<th>Arts major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2 Semester 2</td>
<td>ENG2005 Advanced engineering mathematics</td>
<td>MEC2404 Mechanics of fluids</td>
<td>Arts minor</td>
<td>Arts major</td>
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</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>MEC2402 Design methods</th>
<th>MEC3456 Engineering computational mechanics</th>
<th>Arts minor</th>
<th>Arts major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 3 Semester 2</td>
<td>MEC2405 Thermodynamics</td>
<td>MEC3457 Systems and control</td>
<td>Arts minor</td>
<td>Arts major</td>
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</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 1</th>
<th>MEC3455 Solid mechanics</th>
<th>MEC3451 Fluid mechanics 2</th>
<th>Arts elective</th>
<th>Arts major</th>
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<tbody>
<tr>
<td>Year 4 Semester 2</td>
<td>MEC3416 Machine design</td>
<td>MEC3453 Dynamics 2</td>
<td>Arts elective</td>
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<table>
<thead>
<tr>
<th>Year 5 Semester 1</th>
<th>ENG4701 Final year project A</th>
<th>MEC4408 Thermodynamics and heat transfer</th>
<th>MEC4404 Professional practice</th>
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<tbody>
<tr>
<td>Year 5 Semester 2</td>
<td>ENG4702 Final year project B</td>
<td>MEC4426 Computer-aided design</td>
<td>MEC4407 Design project</td>
<td>Arts elective</td>
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</tbody>
</table>

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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts
Specialisation – Robotics and Mechatronics engineering – Artificial intelligence stream

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Robotics and Mechatronics Engineering (Honours)</th>
<th>Bachelor of Arts</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Year 1 Semester 2</td>
<td>Common first year</td>
</tr>
</tbody>
</table>

| Year 2 Semester 1 | ECE2071 Computer organisation and programming | ECE2131 Electrical circuits | Arts minor | Arts major |

| Year 2 Semester 2 | ENG2005 Advanced engineering mathematics | TRC2201 Mechanics | Arts minor | Arts major |

| Year 3 Semester 1 | MEC2402 Design methods | TRC3200 Dynamical systems | Arts minor | Arts major |

| Year 3 Semester 2 | ECE2072 Digital systems | ECE4179 Neural networks and deep learning | Arts minor | Arts major |

| Year 4 Semester 1 | TRC3500 Sensors and artificial perception | ECE3161 Analogue electronics | Arts elective | Arts major |

| Year 4 Semester 2 | TRC3600 Modelling and control | ECE4078 Intelligent robotics | Arts elective | Arts major |

| Year 5 Semester 1 | ENG4701 Final year project A | TRC4800 Robotics | ECE4076 Computer vision | Arts elective |

| Year 5 Semester 2 | ENG4702 Final year project B | ECE4191 Engineering integrated design | TRC4002 Professional practice | Arts elective |

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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation – Robotics and Mechatronics engineering – Automation stream

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Robotics and Mechatronics Engineering (Honours)</th>
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</thead>
<tbody>
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<th>Year 1 Semester 2</th>
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<th>Arts major</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ECE2071 Computer organisation and programming</td>
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<td>ECE2131 Electrical circuits</td>
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<th>Year 2 Semester 1</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>ENG2005 Advanced engineering mathematics</td>
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</tr>
<tr>
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<td>TRC2201 Mechanics</td>
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<tr>
<td></td>
<td>ECE2072 Digital systems</td>
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<td>TRC4802 Thermo-fluids and power systems</td>
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<tbody>
<tr>
<td></td>
<td>MEC2402 Design methods</td>
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<td>TRC3200 Dynamical systems</td>
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<tbody>
<tr>
<td></td>
<td>ECE2071 Digital systems</td>
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<td>TRC4802 Thermo-fluids and power systems</td>
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<tbody>
<tr>
<td></td>
<td>TRC3500 Sensors and artificial perception</td>
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<td></td>
<td>ECE3161 Analogue electronics</td>
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<th>Year 4 Semester 2</th>
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<tr>
<td></td>
<td>TRC3600 Modelling and control</td>
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<td></td>
<td>TRC3000 Automation project</td>
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<tbody>
<tr>
<td></td>
<td>ENG4701 Final year project A</td>
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<tr>
<td></td>
<td>TRC4800 Robotics</td>
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<tr>
<td></td>
<td>TRC4200 Engineering cyber-physical systems</td>
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<tr>
<th>Year 5 Semester 2</th>
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<tbody>
<tr>
<td></td>
<td>ENG4702 Final year project B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TRC4902 Mechatronics and manufacturing</td>
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</tr>
<tr>
<td></td>
<td>TRC4002 Professional practice</td>
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</tbody>
</table>

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E3002 Bachelor of Engineering (Honours) and Bachelor of Arts

Specialisation - Software engineering

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<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Common first year</td>
<td>Arts major</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT1830 Discrete mathematics for computer science</td>
<td>FIT2085 Introduction to computer science</td>
<td>Arts minor</td>
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</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIT2099 Object oriented design and implementation</td>
<td>FIT3159 Computer architecture</td>
<td>Arts minor</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 1</th>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIT3170 Software engineering practice (12 points)</td>
<td>FIT3077 Software engineering: architecture and design</td>
<td>Arts elective</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Year 5 Semester 1</th>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Arts</th>
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</thead>
<tbody>
<tr>
<td>FIT4002 Software engineering industry experience studio project (12 points)</td>
<td>FIT4165 Computer networks</td>
<td>Level 4 software engineering technical elective</td>
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</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 2</th>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Arts</th>
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</thead>
<tbody>
<tr>
<td>FIT4003 Software engineering research project (12 points)</td>
<td></td>
<td>Arts elective</td>
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