Course progression map for 2016 commencing students

This progression map provides advice on the suitable sequencing of units and guidance on how to plan unit enrolment for each semester of study and subject to updates. It should be used in conjunction with the requirements of the course as specified in the Handbook. The map is subject to updates. Last update: 18 October 2021

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

Specialisation - Chemical Engineering

<table>
<thead>
<tr>
<th>Bachelor of Chemical Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong> Semester 1</td>
<td></td>
</tr>
<tr>
<td>ENG1001 Engineering design: Lighter, faster, stronger or ENG1002 Engineering design: Cleaner, safer, smarter</td>
<td>ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics</td>
</tr>
<tr>
<td>Foundation unit or ENG1080 Computing for engineers</td>
<td>BMS1011 Biomedical chemistry</td>
</tr>
<tr>
<td><strong>Year 1</strong> Semester 2</td>
<td></td>
</tr>
<tr>
<td>ENG1002 Engineering design: Cleaner, safer, smarter or ENG1001 Engineering design: Lighter, faster, stronger</td>
<td>ENG1005 Engineering mathematics or ENG1003 Engineering mobile apps</td>
</tr>
<tr>
<td>Engineering elective or ENG1080 Computing for engineers (if not taken in Sem 1)</td>
<td>BMS1042 Public health and preventative medicine</td>
</tr>
</tbody>
</table>

| **Year 2** Semester 1                    |                                |
| CHE2161 Mechanics of fluids              | CHM1011 Chemistry 1            |
| BMS1031 Medical Biophysics               | BMS1021 Cells, tissues and organisms |
| If two foundation units are required then overload is required for PHS1080 Foundation physics replaced by PH1001 from 2018 |

| **Year 2** Semester 2                    |                                |
| CHE2162 Material and energy balances     | ENG2005 Advanced engineering mathematics |
| BMS1052 Human neurobiology               | BMS1062 Molecular biology |

| **Year 3** Semester 1                    |                                |
| CHE2164 Thermodynamics 1                 | BMS2021 Human molecular biology |
| BMS2011 Structure of the human body      | BMS2031 Body systems |

| **Year 3** Semester 2                    |                                |
| CHE2163 Heat and mass transfer          | BMS2042 Human genetics         |
| BMS2052 Microbes in health and diseases  | BMS2062 Introduction to bioinformatics |
| CHE3167 Transport phenomena and numerical methods (for students planning to enrol in CHE4164) |

| **Year 4** Semester 1                    |                                |
| CHE3161 Chemistry and chemical thermodynamics | CHE3165 Separation processes |
| BMS3031 Molecular mechanisms of disease |                                |

| **Year 4** Semester 2                    |                                |
| CHE3166 Process design                   | CHE3164 Reaction engineering   |
| BMS3052 Biomedical basis and epidemiology of human disease |

| **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)] |

| **Year 5** Semester 1 OR                   |                                |
| CHE4180 Chemical engineering project      | Replace with ENG4701 from 2021  |
| See footnote                               |                                |

| **Year 5** Semester 2                    |                                |
| ENG4702 Final year project B              | CHE4170 Design project (12 points) |
| See footnote                               | CHE3162 Process control |

Note:

- CHE4180 - 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.

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

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

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>Bachelor of Civil Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV2225 Design of steel and timber structures Replace with CIV2235 from 2021</td>
<td>CIV2206 Mechanics of solids Unit title change from 2019</td>
<td>BMS1031 Medical Biophysics</td>
</tr>
<tr>
<td>Year 2 Semester 2</td>
<td>CIV2242 Geomechanics 1</td>
<td>ENG2005 Advanced engineering mathematics</td>
</tr>
<tr>
<td>Year 3 Semester 1</td>
<td>CIV2263 Water systems</td>
<td>BMS2021 Human molecular biology</td>
</tr>
<tr>
<td>Year 3 Semester 2</td>
<td>CIV2347 Geomechanics 2</td>
<td>BMS2042 Human genetics</td>
</tr>
<tr>
<td>Year 4 Semester 1</td>
<td>CIV3248 Groundwater and environmental geomechanics</td>
<td>CIV3284 Design of concrete and masonry structures Replace with CIV3244 from 2022</td>
</tr>
<tr>
<td>Year 4 Semester 2</td>
<td>CIV3221 Building structures and technology</td>
<td>CIV3204 Engineering investigation</td>
</tr>
<tr>
<td>Year 5 Semester 1</td>
<td>CIV4210 Project A Replace with ENG4702 from 2022 See footnote</td>
<td>CIV3265 Engineering hydrology</td>
</tr>
<tr>
<td>Year 5 Semester 2</td>
<td>CIV4287 Road engineering Replace with ENG4702 from 2022 See footnote</td>
<td>CIV4212 Civil and environmental engineering practice</td>
</tr>
</tbody>
</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 2016 commencing students

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

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 Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENG1001 Engineering design: Lighter, faster, stronger</td>
<td>ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics</td>
</tr>
<tr>
<td></td>
<td>or ENG1002 Engineering design: Cleaner, safer, smarter</td>
<td></td>
</tr>
<tr>
<td>Year 1 Semester 2</td>
<td>ENG1002 Engineering design: Cleaner, safer, smarter or ENG1001 Engineering design: Lighter, faster, stronger</td>
<td>ENG1005 Engineering mathematics or ENG1003 Engineering mobile apps</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>ENG2005 Advanced engineering mathematics</th>
<th>ECE2071 Computer organisation and programming</th>
<th>BMS1031 Medical Biophysics</th>
<th>BMS1021 Cells, tissues and organisms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2 Semester 2</td>
<td>ECE2191 Probability models in engineering</td>
<td>ECE2072 Digital systems</td>
<td>BMS1052 Human neurobiology</td>
<td>BMS1062 Molecular biology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>ECE2131 Electrical circuits</th>
<th>BMS2021 Human molecular biology</th>
<th>BMS2011 Structure of the human body</th>
<th>BMS2031 Body systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 3 Semester 2</td>
<td>ECE2111 Signals and systems</td>
<td>BMS2042 Human genetics</td>
<td>BMS2052 Microbes in health and diseases</td>
<td>BMS2062 Introduction to bioinformatics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 1</th>
<th>ECE3073 Computer systems</th>
<th>ECE3161 Analogue electronics</th>
<th>BMS3031 Molecular mechanisms of disease</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 4 Semester 2</td>
<td>ECE3051 Electrical energy systems*</td>
<td>ECE3091 Engineering design Replace with ECE4191 from 2022. See footnote</td>
<td>BMS3052 Biomedical basis and epidemiology of human disease</td>
</tr>
</tbody>
</table>

* This unit replaces ECE4191 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.
# Course progression map for 2016 commencing students

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

## Specialisation - Materials Engineering

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1001 Engineering design: Lighter, faster, stronger or ENG1002 Engineering design: Cleaner, safer, smarter</td>
<td>Foundation unit or ENG1060 Computing for engineers</td>
<td>BMS1011 Biomedical chemistry</td>
</tr>
<tr>
<td>ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics</td>
<td>Engineering elective or ENG1060 Computing for engineers (if not taken in Sem 1)</td>
<td>BMS1042 Public health and preventative medicine</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1002 Engineering design: Cleaner, safer, smarter or ENG1001 Engineering design: Lighter, faster, stronger</td>
<td>ENG1005 Engineering mathematics or ENG1003 Engineering mobile apps</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE2541 Crystal structures, thermodynamics and phase equilibria</td>
<td>MTE2544 Functional materials</td>
<td>BMS1031 Medical Biophysics</td>
</tr>
<tr>
<td>See footnote 1</td>
<td>Replace with MTE2202 from 2021 (Semester 2 offering)</td>
<td>BMS1021 Cells, tissues and organisms</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE2542 Microstructural development</td>
<td>ENG2005 Advanced engineering maths</td>
<td>BMS1052 Human neurobiology</td>
</tr>
<tr>
<td>Replace with MTE2202 from 2021 (Semester 1 offering)</td>
<td></td>
<td>BMS1062 Molecular biology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE2546 Mechanics of materials</td>
<td>BMS2021 Human molecular biology</td>
<td></td>
</tr>
<tr>
<td>Replace with MTE2023 from 2021</td>
<td></td>
<td>BMS2011 Structure of the human body</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BMS2031 Body systems</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE2545 Polymers and ceramics 1</td>
<td>BMS2042 Human genetics</td>
<td></td>
</tr>
<tr>
<td>See footnote 2</td>
<td></td>
<td>BMS2052 Microbes in health and diseases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BMS2062 Introduction to bioinformatics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE3543 Microstructure to applications: The mechanics of materials</td>
<td>MTE3542 Microstructural design in structural materials</td>
<td>BMS3031 Molecular mechanisms of disease</td>
</tr>
<tr>
<td>See footnote 3</td>
<td>Replace with MTE3102 from 2022</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE3547 Materials characterisation and modelling</td>
<td>MTE3546 Polymers and ceramics 2</td>
<td>BMS3052 Biomedical basis and epidemiology of human disease</td>
</tr>
<tr>
<td>See footnote 1</td>
<td>Replace with MTE3203 from 2022</td>
<td></td>
</tr>
<tr>
<td></td>
<td>See footnote 2</td>
<td></td>
</tr>
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<table>
<thead>
<tr>
<th>Year 5 Semester 1</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE4525 Project 1</td>
<td>MTE4541 Materials durability</td>
<td>MTE4571 Materials engineering design and practice</td>
</tr>
<tr>
<td>Replace with ENG20210 from 2021/22</td>
<td>Replace with MTE3103 from 2022</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 Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE4526 Project 2</td>
<td>MTE4545 Functional materials and devices</td>
<td>MTE4573 Processing and engineering of metals and ceramics</td>
</tr>
<tr>
<td>Replace with ENG40422 from 2022</td>
<td>Replace with MTE3203 from 2022</td>
<td>See footnote 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 Semester 2</th>
<th>Bachelor of Materials Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE4526 Project 2</td>
<td>MTE4545 Functional materials and devices</td>
<td>Level 4 or 5 materials engineering technical elective</td>
</tr>
<tr>
<td>Replace with ENG40422 from 2022</td>
<td>Replace with MTE3203 from 2022</td>
<td></td>
</tr>
</tbody>
</table>

Note:

1. MTE2101 and MTE3101 will be replacing MTE2541 and MTE3547 respectively. If you have completed MTE2541 prior to 2021, you must complete MTE3547 (last offering 2021).
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).
3. You must complete the (MTE3543+MTE4571+MTE4572+MTE4573) combination (last offerings 2022). Otherwise, complete (MTE3201+MTE4101+MTE4102+MTE4201) combination.
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### E3004 Bachelor of Engineering (Honours) and Bachelor of Biomedical Science

#### Specialisation - Mechanical Engineering

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ENG1001 Engineering design: Lighter, faster, stronger or ENG1002 Engineering design: Cleaner, safer, smarter</td>
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<tr>
<td></td>
<td></td>
<td>ENG1003 Engineering mobile apps or ENG1005 Engineering mathematics</td>
<td>BMS1011 Biomedical chemistry</td>
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<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 2</th>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>ENG1002 Engineering design: Cleaner, safer, smarter or ENG1001 Engineering design: Lighter, faster, stronger</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 Engineering mobile apps</td>
<td>BMS1042 Public health and preventative medicine</td>
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<table>
<thead>
<tr>
<th>Year 2</th>
<th>Semester 1</th>
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<th>Bachelor of Biomedical Science</th>
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<tbody>
<tr>
<td></td>
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<td>BMS1031 Medical microbiology</td>
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<td>MEC2401 Dynamics 1</td>
<td>BMS1021 Cells, tissues and organisms</td>
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<table>
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<th>Semester 2</th>
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<th>Bachelor of Biomedical Science</th>
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<tbody>
<tr>
<td></td>
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</tr>
<tr>
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<td>ENG2005 Advanced engineering mathematics</td>
<td>BMS1062 Molecular biology</td>
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<thead>
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<th>Semester 1</th>
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<th>Bachelor of Biomedical Science</th>
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</thead>
<tbody>
<tr>
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<td></td>
<td>MEC2402 Engineering design 1</td>
<td>BMS2021 Human molecular biology</td>
</tr>
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<td>Unit title change in 2021</td>
<td>BMS2011 Structure of the human body</td>
</tr>
<tr>
<td></td>
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<td>BMS2031 Body systems</td>
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<table>
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<th>Semester 2</th>
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<tr>
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<td>MEC2405 Thermodynamics</td>
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<tr>
<td></td>
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<td>BMS2042 Human genetics</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>BMS2062 Introduction to bioinformatics</td>
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<thead>
<tr>
<th>Year 4</th>
<th>Semester 1</th>
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<th>Bachelor of Biomedical Science</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>MEC3451 Fluid mechanics 2</td>
<td>BMS3031 Molecular mechanisms of disease</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MEC3456 Engineering computational analysis</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Semester 2</th>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>MEC3416 Engineering design 2</td>
<td>BMS3052 Biomedical basis and epidemiology of human disease</td>
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<tr>
<td></td>
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<td>Unit title change in 2021</td>
<td></td>
</tr>
<tr>
<td></td>
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<td>MEC3457 Systems and control</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Year 5</th>
<th>Semester 1</th>
<th>Bachelor of Mechanical Engineering (Honours)</th>
<th>Bachelor of Biomedical Science</th>
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<td>MEC4401 Final year project</td>
<td>Replace with ENG4701 from 2021/22</td>
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<td>MEC4408 Thermodynamics and heat transfer</td>
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<td>MEC3455 Solid Mechanics</td>
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<td>MEC4404 Professional practice</td>
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<th>Semester 2</th>
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<td>MEC4426 Computer-aided design</td>
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<td>MEC3463 Dynamics 2</td>
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<td>MEC4407 Engineering design 3</td>
<td>Unit title change from 2021</td>
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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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