Course progression map for 2019 commencing students

This progression map provides advice on the suitable sequencing of units and guidance on how to plan unit enrolment for each semester of study. It does not substitute for the list of required units as described in the course ‘Requirements’ section of the Handbook. Last update: 18 November 2020

E3012 Bachelor of Engineering (Honours) and Bachelor of Design

Level one engineering enrolment patterns

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>ENG1003 Engineering mobile apps COL1001 Collaborative design studio 1 (12 cps) AHT1101 Introduction to visual culture in art, design and architecture OHS1000 Intro to art &amp; design health and safety (0 cps)</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter IDN1002 Industrial design studio 2 (12 cps) TDN1002 Design and the avant-garde</td>
</tr>
</tbody>
</table>

| 1    | 1   | DWG1201 Drawing 1 TDN2001 Sociologies of design IDN2001 Industrial design studio 3 (12 cps) |
| 2    | 1   | ENG1001 Engineering design: lighter, faster, stronger ENG1005 Engineering mathematics ENG1060 Computing for engineers 1st year engineering elective |

Tip: You can swap the semesters for ENG1003 and the Engineering elective or swap ENG1002 with ENG1001.

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>ENG1090 Foundation mathematics COL1001 Collaborative design studio 1 (12 cps) AHT1101 Introduction to visual culture in art, design and architecture OHS1000 Intro to art &amp; design health and safety (0 cps)</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter IDN1002 Industrial design studio 2 (12 cps) TDN1002 Design and the avant-garde</td>
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</tbody>
</table>

| 1    | 1   | DWG1201 Drawing 1 TDN2001 Sociologies of design IDN2001 Industrial design studio 3 (12 cps) |
| 2    | 1   | ENG1001 Engineering design: lighter, faster, stronger ENG1005 Engineering mathematics ENG1060 Computing for engineers ENG1003 Engineering mobile apps |

Tip: You can swap ENG1002 with ENG1001.

If you need to enrol in foundation maths:

<table>
<thead>
<tr>
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</tr>
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<tbody>
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<td>1</td>
<td>1</td>
<td>ENG1090 Foundation mathematics COL1001 Collaborative design studio 1 (12 cps) AHT1101 Introduction to visual culture in art, design and architecture OHS1000 Intro to art &amp; design health and safety (0 cps)</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter IDN1002 Industrial design studio 2 (12 cps) TDN1002 Design and the avant-garde</td>
</tr>
</tbody>
</table>

| 1    | 1   | DWG1201 Drawing 1 TDN2001 Sociologies of design IDN2001 Industrial design studio 3 (12 cps) |
| 2    | 1   | ENG1001 Engineering design: lighter, faster, stronger ENG1005 Engineering mathematics ENG1060 Computing for engineers ENG1003 Engineering mobile apps |

Tip: You can swap ENG1002 with ENG1001.

If you need to enrol in foundation physics:

<table>
<thead>
<tr>
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<th>Sem</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>PHS1001 Foundation physics COL1001 Collaborative design studio 1 (12 cps) AHT1101 Introduction to visual culture in art, design and architecture OHS1000 Intro to art &amp; design health and safety (0 cps)</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter IDN1002 Industrial design studio 2 (12 cps) TDN1002 Design and the avant-garde</td>
</tr>
</tbody>
</table>

| 1    | 1   | DWG1201 Drawing 1 TDN2001 Sociologies of design IDN2001 Industrial design studio 3 (12 cps) |
| 2    | 1   | ENG1001 Engineering design: lighter, faster, stronger ENG1005 Engineering mathematics ENG1060 Computing for engineers ENG1003 Engineering mobile apps |

Tip: You can swap ENG1002 with ENG1001.

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E3012 Bachelor of Engineering (Honours) and Bachelor of Design

Specialisations - Mechanical engineering and Industrial design

| YEAR 1 Semester 1 | Level one engineering unit | COL1001 Collaborative design studio 1 | AHT1101 Introduction to visual culture in art, design and architecture | OHS1000 Introduction to art and design health and safety (0 pts) |
| YEAR 1 Semester 2 | Level one engineering unit | IDN1002 Industrial design studio 2 | TDN1002 Design and the avant-garde |
| YEAR 2 Semester 1 | DWG1201 Drawing 1 | TDN2001 Sociologies of design | IDN2001 Industrial design studio 3 |
| YEAR 2 Semester 2 | Level one engineering unit | Level one engineering unit | Level one engineering unit | Level one engineering unit |
| YEAR 3 Semester 1 | MEC2402 Engineering design 1* | MEC2403 Mechanics of materials | MEC2401 Dynamics 1 | TDN3001 Research for design |
| YEAR 3 Semester 2 | MEC2405 Thermodynamics | ENG2005 Advanced engineering mathematics | MEC2404 Mechanics of fluids | MEC3416 Engineering design 2* |
| YEAR 4 Semester 1 | MEC3455 Solid Mechanics | MEC3456 Engineering computational analysis | IDN3001 Industrial design studio 4 |
| YEAR 4 Semester 2 | MEC3457 Systems and control | TDN3002 Design strategy and professional practice | IDN3002 Industrial design studio 5 |
| YEAR 5 Semester 1 | MEC3451 Fluid Mechanics 2 | MEC4408 Thermodynamics and heat transfer | MEC4401 Final year project | MEC4404 Professional Practice |
| YEAR 5 Semester 2 | MEC3453 Dynamics 2 | MEC4426 Computer-aided design | MEC4402 Final year project – Thesis | MEC4407 Engineering design 3* |

Note:
- All students 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.
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Mechanical engineering
Industrial design

Note:
- All students 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.
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