How to enrol in the
Bachelor of Engineering (Honours)
# Quick facts

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Bachelor of Engineering (Honours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short title</td>
<td>BE(Hons)</td>
</tr>
<tr>
<td>Course code</td>
<td>E3001</td>
</tr>
<tr>
<td>Specialisations you can choose</td>
<td>Aerospace, Chemical, Civil, Electrical and Computer Systems, Environmental, Geological, Materials, Mechanical, Mechatronics, Resources, Software Engineering</td>
</tr>
<tr>
<td>You’ll graduate with</td>
<td>The award title for your specialisation for example: Bachelor of Aerospace Engineering (Honours)</td>
</tr>
<tr>
<td>Credit points</td>
<td>32 units x 6 credit points = 192 credit points</td>
</tr>
<tr>
<td>Duration</td>
<td>4 years full time - domestic and international students 8 years part time - domestic students</td>
</tr>
<tr>
<td>Time limit</td>
<td>8 years</td>
</tr>
</tbody>
</table>
Now for the course structure

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
</table>
| Level 1 | **Common first year**  
Students commence engineering and acquire knowledge in core disciplines, design and teamwork |
|        | **Specialisation selection at the end of the common first year**  
Levels 2, 3 and 4 are taken in your specialisation |
| Level 2 | Builds basic theory and further design skills |
| Level 3 | Extends theory and design into more complex, professional scenarios |
| Level 4 | Provides specialised electives and an individual project |

* Some VTAC students will have been offered a place directly into Aerospace or Software Engineering. This will be recorded against your student record. You will still need to enrol in the common first year however you will not need to undertake specialisation selection.
Let’s enrol

• Your handbook entry and course map detail the units and other requirements you must meet to complete your degree

• You’ll need to enrol for both semester 1 and 2
  • Full-time study (local and international students)
    o 4 units per semester/ 8 units for the year
  • Part-time study (local students only)
    o 2 units per semester/ 4 units for the year

• What you enrol in is dependent on your academic preparation
  o I am enrolling from Level 1 of the course
  o I have been awarded credit for part of the course (Monash College, 2+2, Monash Malaysia transfers or students transferring from another universities)
These five units are compulsory and must be completed at Level 1

- **ENG1001** Engineering design: Lighter, faster, stronger
- **ENG1002** Engineering design: Cleaner, safer smarter
- **ENG1003** Engineering mobile apps
- **ENG1060** Computing for engineers
- **ENG1005** Engineering mathematics

Tips!
- Split your design units (ENG1001 and ENG1002) across two semesters
- If you don’t have a background in physics, put ENG1001 in semester 2
- Keep ENG1060 and ENG1005 in the same semester
Level 1 – Engineering electives

You must choose at least one unit from:

- CHE2161 Mechanics of fluids
- CHM1011 Chemistry I or CHM1051 Chemistry I advanced
- ECE2041 Telecommunications
- ECE2072 Digital systems
- ENE1621 Environmental engineering
- ENG1021 Spatial communication in engineering
- ENG1051 Materials for energy and sustainability
- FIT2085 Introduction to computer science for engineers
- MAE2405 Aircraft performance
- MAT1830 Discrete mathematics for computer science*
- MEC2404 Mechanics of fluids
- PHS1002 Physics for engineering
- RSE1010 Natural resources engineering
- TRC2001 Introduction to systems engineering

Tip!

✓ ENE1621, ENG1021, ENG1051, PHS1002, CHM1011 & RSE1010 are good choices if you’re not too sure which specialisation to choose at the end of Level 1.

* for Software engineers
These Level 2 engineering electives are offered in first year to extend capable students and provide a deeper insight into some of the specialisations:

- CHE2161 Mechanics of fluids
- ECE2041 Telecommunications
- ECE2072 Digital systems
- FIT2085 Introduction to computer science for engineers
- MAE2405 Aircraft performance
- MEC2404 Mechanics of fluids
- TRC2001 Introduction to systems engineering

Tips!

- You must have passed four units to be eligible to undertake these Level 2 electives so you’ll need to enrol in them in semester 2
- Don’t underestimate the difficulty and level of work involved in these units. Remember, you will be in class with Level 2 students.
Level 1 - foundation units

These units develop your understanding of the natural and physical sciences and mathematics that underpin all engineering disciplines.

You may have already completed these units in your final year of school or in tertiary study (VCE Year 12, IB, A Levels or Monash College). If you haven’t, these units are compulsory.

- **ENG1090** Foundation maths (equivalent to VCE Specialist Maths units 3 & 4)
  - You don’t need to take foundation maths if you have completed VCE Specialist Maths (score of ≥30), IB higher level maths, MUFY Adv Maths 1 & 2 ≥ 65%+, any higher level maths with calculus or if you have completed Monash College Dip of Eng Pt 2.
  - **However, Maths is the language of engineering so if you are not confident with maths and calculus in particular, we recommend ENG1090 to strengthen your maths foundation.**

- **PHS1001** Foundation physics (equivalent to VCE Physics units 3 & 4)
  - You don’t need to take foundation physics if you have completed VCE, IB or A Level Physics; MUFY Physics 65%+; Physics at a tertiary level or if you have completed Monash College Dip of Eng Pt 2.
Level 1 - remaining units

Whether you have any remaining elective units will depend on whether you needed to take any foundation units.

<table>
<thead>
<tr>
<th>I need to take two foundation units</th>
<th>⇒ You have no remaining units to choose</th>
</tr>
</thead>
<tbody>
<tr>
<td>I need to take one foundation unit</td>
<td>⇒ You have one elective unit to choose</td>
</tr>
<tr>
<td>I don’t need to take any foundation units</td>
<td>⇒ You have two elective units to choose</td>
</tr>
</tbody>
</table>

Tips!
- Strengthen your engineering foundations by taking your electives from the engineering elective list or
- Broaden your knowledge by taking electives from the wide range of undergraduate units offered across the university (see handbook)
- If you have two electives, you can take an engineering approved minor by taking two units at level 1 and two at level 2 in an approved non-engineering discipline such as physics or applied mathematics.
# Let’s enrol

Here’s what to enrol in if you don’t need any foundation units

<table>
<thead>
<tr>
<th>Sem 1</th>
<th>ENG1001 Engineering design: lighter, faster, stronger</th>
<th>ENG1005 Engineering mathematics</th>
<th>ENG1060 Computing for engineers</th>
<th>Elective unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENG1002 Engineering design: cleaner, safer, smarter</td>
<td>ENG1003 Engineering mobile apps</td>
<td>Engineering elective unit</td>
<td>Elective unit</td>
</tr>
</tbody>
</table>

**Tip!**
> ✓ You can swap the semester of your engineering elective and elective unit.

Here’s what to enrol in if you need to take both Foundation physics and maths

<table>
<thead>
<tr>
<th>Sem 1</th>
<th>ENG1002 Engineering design: cleaner, safer, smarter</th>
<th>ENG1003 Engineering mobile apps</th>
<th>ENG1090 Foundation Mathematics</th>
<th>PHS1001 Foundation physics</th>
</tr>
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<td>Engineering elective unit</td>
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**Tip!**
> ✓ You can swap the semester of your engineering elective and elective unit.
Let’s enrol

Here’s what to enrol in if you need to take Foundation physics

<table>
<thead>
<tr>
<th>Sem</th>
<th>ENG1002 Engineering design: cleaner, safer, smarter</th>
<th>ENG1003 Engineering mobile apps</th>
<th>PHS1001 Foundation physics</th>
<th>Engineering elective unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>ENG1001 Engineering design: lighter, faster, stronger</td>
<td>ENG1005 Engineering mathematics</td>
<td>ENG1060 Computing for engineers</td>
<td>Elective unit</td>
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Tip!
✓ You can swap the semesters of ENG1003 or your Engineering elective with your semester two elective unit.

Here’s what to enrol in if you need to take Foundation maths

<table>
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<tr>
<th>Sem</th>
<th>ENG1002 Engineering design: cleaner, safer, smarter</th>
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Tip!
✓ You can swap the semesters of ENG1003 or your Engineering elective with your semester two elective.
What if I have credit?

Students granted credit for all of Level 1
(including Monash College Diploma Part 2)
• Your credit for Level 1 has been keyed
• Enrol in Level 2 of the program for the specialisation you have selected
• Your units are listed on the course map

Tip!
✓ Your 2 free electives can be taken from the eng elective list on slide 5.

Students granted credit for all of Levels 1 & 2
(including Monash Malaysia transfers and 2 + 2 students transferring from our partner institutions overseas)
• Your credit for Levels 1 and 2 has been keyed
• Enrol in Level 3 of the program for the specialisation you have selected
• Your units are listed on the course map

Tip!
✓ Your technical electives must be chosen from your specialisation list in the handbook
What if I have credit?

Students granted some credit or credit across multiple year levels
• Your credit has been keyed
• The units you need to enrol in are listed on the course map
• Print off a course map and mark the units you have been granted credit for
• Enrol in eight units, starting from the lowest year level, making sure to check prerequisites have been met.

Tip!
✓ Prerequisites are listed against each unit in the specialisation section of the handbook (at the bottom of the course page)
How to apply for credit

- You can [apply for credit](#) for completed university level subjects
- You can [search online](#) for previous credit decisions to give you an idea of what you may be granted
- You do not need to provide your results or a syllabus for Monash enhancement units or VCE Algorithmics (we have these already!)
- Enrol in a standard enrolment to secure your place in the course. Your enrolment can be changed when your application has been processed.

Tip!
- Submit your credit application as quickly as possible to give you plenty of time to change your enrolment if you have to
- You will only be awarded credit if you have room in your course structure.
## What next?

<table>
<thead>
<tr>
<th><strong>Domestic students</strong></th>
<th><strong>International students</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Enrol on WES</strong> (Step 3)</td>
<td><strong>Enrol on WES</strong> (Step 3)</td>
</tr>
<tr>
<td>• Order your ID card (Step 4)</td>
<td>• Order your ID card (Step 4)</td>
</tr>
<tr>
<td>• Select your preferred class times</td>
<td>• Select your preferred class times</td>
</tr>
<tr>
<td>• Prepare for uni (Host Scheme, support services, online systems, transport, accommodation)</td>
<td>• Prepare for uni (Host Scheme, support services, online systems, transport, accommodation)</td>
</tr>
<tr>
<td>• View your fee Student Amenities fee statement.</td>
<td></td>
</tr>
</tbody>
</table>

**Domestic student checklist**

**International student checklist**

Once you have your ID card, you'll need to register your arrival by scanning your card at [Monash Connect](#).

You need to register your arrival from Tuesday 29 January and no later than Friday 1 March 2019.
Orientation provides critical academic and social preparation for your study in engineering. Your attendance is required. See you in February!

Tip!
- We’ll send you a reminder email and further orientation details in early February. Be sure to monitor your student email account.