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

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Bachelor of Engineering (Honours) and Bachelor of Commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short title</td>
<td>BE(Hons)/BCom</td>
</tr>
<tr>
<td>Course code</td>
<td>E3005</td>
</tr>
<tr>
<td>Specialisations you can choose</td>
<td>Aerospace, Chemical, Civil, Electrical and Computer Systems, Environmental, Materials, Mechanical, Mechatronics, Software Engineering</td>
</tr>
<tr>
<td>You’ll graduate with</td>
<td>Two awards:</td>
</tr>
<tr>
<td></td>
<td>1. The award title for your engineering specialisation for example: Bachelor of Aerospace Engineering (Honours)</td>
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<tr>
<td></td>
<td>2. Bachelor of Commerce</td>
</tr>
<tr>
<td>Credit points</td>
<td>40 units x 6 credit points = 240 credit points</td>
</tr>
<tr>
<td></td>
<td>41 units x 6 credit points = 246 cps if you need two foundation units</td>
</tr>
<tr>
<td>Duration</td>
<td>5 years full time - domestic and international students</td>
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<tr>
<td></td>
<td>10 years part time - domestic students</td>
</tr>
<tr>
<td>Time limit</td>
<td>10 years</td>
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</table>
Now for the course structure

Level 1 units

**Engineering Common first year**
Students commence engineering and acquire knowledge in core disciplines, design and teamwork

**Commerce**
The Bachelor of Commerce is a comprehensive course, structured in equal parts. In the double degree course you complete:

**Commerce specified study**
- provides a broad foundation for your study of commerce and exposes you to several commerce disciplines.
- contributes breadth to your knowledge of commerce and address the graduate course outcomes.
- gives you the opportunity to learn more about each discipline before finalising your major.

**Commerce listed major**
- focused program of study to develop your expertise in one discipline area.
- develop, apply and communicate an advanced level of understanding of the concepts and theoretical frameworks that constitute the knowledge base of your major area of study.

<table>
<thead>
<tr>
<th>Level 2 units</th>
<th>Engineering specialisation selection at the end of common first year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Levels 2, 3 and 4 units are taken in your specialisation over the remaining four years</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 3 units</th>
<th>Builds basic theory and further design skills</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Level 4 units</th>
<th>Extends theory and design into more complex, professional scenarios</th>
</tr>
</thead>
</table>

<table>
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<tr>
<th>Level 4 units</th>
<th>Provides specialised electives and an individual project</th>
</tr>
</thead>
</table>
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 eg students transferring from another university**
These five Engineering 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 - 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 Eng units

Your remaining Engineering units will depend on whether you needed to take any foundation units.

| I need to take two foundation units | ⇒ You have no remaining engineering units to choose  
|                                      | ⇒ To avoid having to take 9 units in your first year, move ENG1003 Engineering mobile apps to Year 2  
|                                      | ⇒ [Choose your commerce units](#) |
| I need to take one foundation unit   | ⇒ You have no remaining engineering units to choose  
|                                      | ⇒ [Choose your commerce units](#) |
| I don’t need to take any foundation units | ⇒ You have one [engineering elective](#) unit to choose |
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 and CHM1011 are good choices if you’re not too sure which specialisation to choose at the end of Level 1.
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 second year students.
Level 1 – Commerce units

Select two commerce units from the following compulsory units. The remaining core commerce units can be taken in your second year

- **ACC1100** Introduction to financial accounting or **ACC1200** Accounting for managers
- **BTC1110** Commercial law
- **ECC1000** Principles of microeconomics
- **ETC1000** Business and economic statistics
- **MGC1010** Introduction to management
- **MKC1200** Principles of marketing

Tip!
- We normally recommend engineering commerce students take ACC1100 or ACC1200 and ECC1000 as their commerce units at Level 1.
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>ACC1100 Introduction to financial accounting or ACC1200 Accounting for managers</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>ENG1002 Engineering design: cleaner, safer, smarter</td>
<td>ENG1003 Engineering mobile apps</td>
<td>Engineering elective unit</td>
<td>ECC1000 Principles of microeconomics</td>
</tr>
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Tip!
✓ You can swap the semester of your engineering elective and your semester 1 commerce unit.

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

<table>
<thead>
<tr>
<th>Sem 1</th>
<th>ENG1002 Engineering design: cleaner, safer, smarter</th>
<th>PHS1001 Foundation physics</th>
<th>ENG1090 Foundation Mathematics</th>
<th>ACC1100 Introduction to financial accounting or ACC1200 Accounting for managers</th>
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<td>ENG1005 Engineering mathematics</td>
<td>ENG1060 Computing for engineers</td>
<td>ECC1000 Principles of microeconomics</td>
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Tip!
✓ You can take the remaining core unit ENG1003 Engineering mobile apps in semester one of year two as an overload.
✓ You cannot swap the semesters of any of the unit.
Let’s enrol

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

<table>
<thead>
<tr>
<th>Sem 1</th>
<th>ENG1002 Engineering design: cleaner, safer, smarter</th>
<th>ENG1003 Engineering mobile apps</th>
<th>PHS1001 Foundation physics</th>
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<tr>
<td>Sem 2</td>
<td>ENG1001 Engineering design: lighter, faster, stronger</td>
<td>ENG1005 Engineering mathematics</td>
<td>ENG1060 Computing for engineers</td>
<td>ECC1000 Principles of microeconomics</td>
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Tip!
✓ You can swap the semester of ENG1003 and your semester 2 commerce unit if you like.

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

<table>
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<tr>
<th>Sem 1</th>
<th>ENG1002 Engineering design: cleaner, safer, smarter</th>
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Tip!
✓ You can swap the semester of ENG1003 and your semester 2 commerce unit if you like.
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)

| Semester 1 | Credit | Credit | Enrol | Enrol |
| Semester 2 | Credit | Credit | Enrol | Enrol |
| Semester 1 | Enrol | Credit | Credit | Enrol |
| Semester 2 | Enrol | Enrol |   |   |
| Semester 1 |   |   |   |   |
| Semester 2 |   |   |   |   |
| Semester 1 |   |   |   |   |
| Semester 2 |   |   |   |   |
| Semester 1 |   |   |   |   |
| Semester 2 |   |   |   |   |


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 (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?

**International students**

**Enrol on WES**

Don’t forget to go back to complete step 4 “Order your ID Card” after you enrol.

**international student checklist**

Attend Orientation Week from Monday 22 – Friday 26 July 2019. Further information will be provided closer to the date.
Orientation – 22^{nd}-26^{th} July

Orientation provides critical academic and social preparation for your study in Engineering. Your attendance is required. See you in July!

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