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

November Intake
### Quick facts

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

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

<table>
<thead>
<tr>
<th>Level 1 units</th>
<th>Engineering specialisation selection at the end of common first year</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Levels 2, 3 and 4 units are taken in your specialisation over the remaining four years</td>
</tr>
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</table>

| Level 2 units | Builds basic theory and further design skills |
| Level 3 units | Extends theory and design into more complex, professional scenarios |
| Level 4 units | Provides specialised electives and an individual project |

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.
Let’s enrol

- Your handbook entry and course map detail the units and other requirements you must meet to complete your degree
- We’ve amended the unit sequencing in your course map to accommodate your November admission
  - follow the progression outlined in this presentation
- You’ll need to enrol in four November 2020 units
  - we’ll let you know when you can enrol in your 2021 units
- What you enrol in is dependent on your academic preparation
  - I am enrolling from Level 1 of the course
  - I have been awarded credit for part of the course eg students transferring from another university
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!**
✓ 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.

**MTH1020** Analysis of change (equivalent to VCE Specialist Maths units 3 & 4). You don’t need to take foundation maths (Analysis of change) if you’ve completed:
- VCE Specialist Maths (score of ≥30)
- IB higher level maths (4 or above)
- A Level mathematics (B or above)
- MUFY Adv Maths 1 & 2 (≥ 65%+)
- or any higher level maths with calculus.

Maths is the language of engineering so if you’re not confident with calculus, strengthen your maths foundation by taking MTH1020. If you have taken Gao Kao Maths you should enrol in MTH1020.

**PHS1001** Foundation physics (equivalent to VCE Physics units 3 & 4). You don’t need to take foundation physics if you’ve completed:
- VCE, IB or A Level Physics (pass grade)
- MUFY Physics (≥ 65%+)
- Physics at a tertiary level (pass grade)
- AP Physics 1 and 2 (if you have only completed Physics 1 or Physics C you must take PHS1001).
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 |
Examples of electives (Engineering elective list)

- CHE1010 Grand challenges in chemical engineering: Delivering sustainable food, water and energy – Offered November
- CHM1011 Chemistry 1 or CHM1051 Chemistry 1 advanced
- ECE2072 Digital systems
- ENE1621 Environmental engineering
- ENG1021 Spatial communication in engineering
- ENG1051 Materials for energy and sustainability – Offered November
- MAE2405 Aircraft performance
- MAT1830 Discrete mathematics for computer science
- MEC2404 Mechanics of fluids
- PHS1002 Physics for engineering
- RSE1010 Natural resources engineering
- RSE2010 Fixed plant engineering and project management – Offered November
- TRC2001 Introduction to systems engineering

Tip!

✓ CHE1010, ENE1621, ENG1021, ENG1051, ENG1811, PHS1002, CHM1011 & RSE1010 are good choices if you’re not too sure which specialisation to choose at the end of Level 1.
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>Nov 2020</th>
<th>ENG1001 Engineering design: lighter, faster, stronger</th>
<th>ENG1005 Engineering mathematics</th>
<th>ENG1060 Computing for engineers</th>
<th>Engineering elective or ACF1100 Intro to financial accounting (equivalent ACC1100) or ACF1200 Acc for managers (equivalent ACF1200)</th>
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</table>

In October 2020 you will re-enrol in the following units for 2021

<table>
<thead>
<tr>
<th>Sem 1 2021</th>
<th>ENG1002 Engineering design: cleaner, safer, smarter</th>
<th>ENG1003 Engineering mobile apps</th>
<th>ECC1000 Principles of microeconomics</th>
<th>Engineering elective or ACF1100 Intro to financial accounting (equivalent ACC1100) or ACF1200 Acc for managers (equivalent ACF1200)</th>
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<tr>
<td>Sem 2 2021</td>
<td>Level 2 Engineering specialisation unit</td>
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<td>BTC1110 Commercial law</td>
</tr>
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Here’s what to enrol in if you need to take both Foundation physics and maths

<table>
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<tr>
<th>Nov 2020</th>
<th>FIT1045 Algorithms and Programming Fundamentals in Python replaces ENG1003</th>
<th>ENG1090 Foundations maths</th>
<th>BTF 1010 Business Law (in lieu of BTC1110) or ETF1100 Business Stats (in lieu of ETC100)</th>
<th>ACF1100 Intro to financial accounting (equivalent ACC1100) or ACF1200 Accounting for managers (equivalent ACF1200)</th>
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In October 2020 you will re-enrol in the following units for 2021

<table>
<thead>
<tr>
<th>Sem 1 2021</th>
<th>ENG1001 Engineering design: lighter, faster, stronger or ENG1002*</th>
<th>ENG1060 Computing for engineers</th>
<th>ENG1005 Engineering maths</th>
<th>PHS1001 Foundation physics</th>
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<tr>
<td>Sem 2 2021</td>
<td>ENG1002 Engineering design: cleaner, safer, smarter or ENG1001*</td>
<td>Level 2 Engineering specialisation unit</td>
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- Take ENG1001 is Sem 1 2021 if you are interested in Aerospace, Civil, Enviro, Mech, or Robotics & Mechatronics – Automation
- Take ENG1002 in Sem 1 2021 if you are interested in Chemical, Electrical and Computer Systems, Materials, Rob & Mechatronics – AI
- You can take either ENG1001 or ENG1002 if you are interested in Software Engineering
**Let’s enrol**

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

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

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<th>Nov 2020</th>
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<th>FIT1045 Algorithms and Programming Fundamentals in Python (ENG1003)</th>
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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)

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credit</th>
<th>Credit</th>
<th>Enrol</th>
<th>Enrol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 2</td>
<td>Credit</td>
<td>Credit</td>
<td>Enrol</td>
<td>Enrol</td>
</tr>
<tr>
<td>Semester 1</td>
<td>Enrol</td>
<td>Credit</td>
<td>Credit</td>
<td>Enrol</td>
</tr>
<tr>
<td>Semester 2</td>
<td>Enrol</td>
<td>Enrol</td>
<td></td>
<td></td>
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<tr>
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<td>Semester 1</td>
</tr>
<tr>
<td>Semester 2</td>
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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?

All students

- Enrol in your November units using the Web Enrolment System (WES)
- Monitor your student email account for information on your Orientation program.