E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Common first year

### You have completed VCE Units 3 & 4 Physics >30 study score and VCE Units 3 and 4 Specialist Maths >30 study score: 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>Feb</td>
<td>ENG1011 Engineering methods</td>
</tr>
<tr>
<td>1</td>
<td>July</td>
<td>ENG1005 Engineering mathematics</td>
</tr>
<tr>
<td>1</td>
<td>July</td>
<td>ENG1014 Engineering numerical analysis</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>FIT1047 Introduction to computer systems networks and security</td>
</tr>
</tbody>
</table>

Tip: You can swap the semesters of your engineering elective and FIT1047.

### You do not have VCE Units 3 & 4 Specialist Maths >30 study score and VCE Units 3 & 4 Physics >30 study score: You must enrol in Foundation mathematics (ENG1090) and Foundation physics (PHS1001)

<table>
<thead>
<tr>
<th>Year</th>
<th>Sem</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Feb</td>
<td>ENG1012 Engineering design</td>
</tr>
<tr>
<td>1</td>
<td>July</td>
<td>PHS1001 Foundation physics</td>
</tr>
<tr>
<td>1</td>
<td>July</td>
<td>ENG1090 Foundation mathematics</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>FIT1047 Introduction to computer systems networks and security</td>
</tr>
</tbody>
</table>

### You do not have VCE Units 3 & 4 Specialist Maths >30 study score: You must enrol in Foundation mathematics (ENG1090)

<table>
<thead>
<tr>
<th>Year</th>
<th>Sem</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Feb</td>
<td>ENG1012 Engineering design</td>
</tr>
<tr>
<td>1</td>
<td>July</td>
<td>ENG1013 Engineering smart systems</td>
</tr>
<tr>
<td>1</td>
<td>July</td>
<td>ENG1090 Foundation mathematics</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>FIT1047 Introduction to computer systems networks and security</td>
</tr>
</tbody>
</table>

### You do not have VCE Units 3 & 4 Physics >30 study score: You must enrol in Foundation physics (PHS1001)

<table>
<thead>
<tr>
<th>Year</th>
<th>Sem</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Feb</td>
<td>ENG1012 Engineering design</td>
</tr>
<tr>
<td>1</td>
<td>July</td>
<td>ENG1013 Engineering smart systems</td>
</tr>
<tr>
<td>1</td>
<td>July</td>
<td>PHS1001 Foundation physics</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>FIT1047 Introduction to computer systems networks and security</td>
</tr>
</tbody>
</table>

### Notes:
- * Foundation units: You enrol in the foundation units ENG1090 and/or PHS1001 if you have not completed the Australian VCE (Units 3 & 4) or equivalent Specialist mathematics and/or Physics with the required study score.
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
- For enrolment advice, please refer to the Course advisers webpage.

Page 1 of 3

Source: Monash University 2022 Handbook –CRICOS Provider Number: 0008C

While the information provided herein was correct at the time of viewing and/or printing, Monash University reserves the right to alter procedures, fees and regulations should the need arise. You should carefully read all official correspondence, other sources of information for students and the official university noticeboards to be aware of changes to the information contained herein. The inclusion in a publication of details of a course in no way creates an obligation on the part of the university to teach it in any given year, or to teach it in the manner described. The university reserves the right to discontinue or vary courses at any time without notice. You should always check with the relevant faculty officers when planning your course. Some courses and units are described which may alter or may not be offered due to insufficient enrolments or changes to teaching staff.
Course progression map for 2023 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. Please note that the map is subject to updates. Update version: 1 September 2022

E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology
Engineering specialisation - Electrical and computer systems engineering
IT major – Computer networks and security

<table>
<thead>
<tr>
<th>Bachelor of Electrical and Computer Systems Engineering (Honours)</th>
<th>Bachelor of Information Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1 Semester 1 February</td>
<td>FIT1047 Introduction to computer systems networks and security</td>
</tr>
<tr>
<td>Year 1 Semester 2 July</td>
<td>FIT1048 Fundamentals of C++ or FIT1045 Algorithms and programming fundamentals in Python or FIT1051 Programming fundamentals in Java</td>
</tr>
<tr>
<td>Year 2 Semester 1 February</td>
<td>ECE2071 Computer organisation and programming</td>
</tr>
<tr>
<td>Year 2 Semester 2 July</td>
<td>ECE2191 Probability models in engineering</td>
</tr>
<tr>
<td>Year 3 Semester 1 February</td>
<td>ECE3073 Computer systems</td>
</tr>
<tr>
<td>Year 3 Semester 2 July</td>
<td>ECE3141 Engineering electromagnetics</td>
</tr>
<tr>
<td>Year 4 Semester 1 February</td>
<td>ECE4132 Control system design</td>
</tr>
<tr>
<td>Year 4 Semester 2 July</td>
<td>Level 4 or 5 ECE-coded core elective</td>
</tr>
<tr>
<td>Year 5 Semester 1 February</td>
<td>ENG4701 Final year project A</td>
</tr>
<tr>
<td>Year 5 Semester 2 July</td>
<td>ENG4702 Final year project B</td>
</tr>
<tr>
<td>Year 5 Semester 1 February</td>
<td>ECE4099 Algorithms and programming</td>
</tr>
<tr>
<td>Year 5 Semester 2 July</td>
<td>ECE4191 Probability models in engineering</td>
</tr>
<tr>
<td>Year 3 Semester 2 July</td>
<td>ECE3073 Computer systems</td>
</tr>
<tr>
<td>Year 4 Semester 2 July</td>
<td>ECE4132 Control system design</td>
</tr>
<tr>
<td>Year 5 Semester 1 February</td>
<td>ENG4701 Final year project A</td>
</tr>
<tr>
<td>Year 5 Semester 2 July</td>
<td>ENG4702 Final year project B</td>
</tr>
</tbody>
</table>

NOTE:
- Engineering minors are not available in the Engineering double degree courses.
- 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.
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
- For enrolment advice, please refer to the Course advisers webpage.

Page 2 of 3

Source: Monash University 2022 Handbook – CRICOS Provider Number: 0008C

While the information provided herein was correct at the time of viewing and/or printing, Monash University reserves the right to alter procedures, fees and regulations should the need arise. You should carefully read all official correspondence, other sources of information for students and the official university noticeboards to be aware of changes to the information contained herein. The inclusion in a publication of details of a course in no way creates an obligation on the part of the university to teach it in any given year, or to teach it in the manner described. The university reserves the right to discontinue or vary courses at any time without notice. You should always check with the relevant faculty officers when planning your course. Some courses and units are described which may alter or may not be offered due to insufficient enrolments or changes to teaching staff.
Course progression map for 2023 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. Please note that the map is subject to updates. Update version: 1 September 2022.

E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Engineering specialisation - Software engineering

IT major – Computer networks and security

<table>
<thead>
<tr>
<th>Bachelor of Software Engineering (Honours)</th>
<th>Bachelor of Information Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 1</strong></td>
<td>February</td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td>July</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 1</strong></td>
<td>February</td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td>July</td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 1</strong></td>
<td>February</td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td>July</td>
</tr>
<tr>
<td><strong>Year 4</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 1</strong></td>
<td>February</td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td>July</td>
</tr>
<tr>
<td><strong>Year 5</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 1</strong></td>
<td>February</td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td>July</td>
</tr>
<tr>
<td><strong>Year 6</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 1</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Year 7</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 1</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:**
- Engineering minors are not available in the Engineering double degree courses.
- 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.
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
- For enrolment advice, please refer to the Course advisers webpage.

Source: Monash University 2022 Handbook –CRICOS Provider Number: 0008C

While the information provided herein was correct at the time of viewing and/or printing, Monash University reserves the right to alter procedures, fees and regulations should the need arise. You should carefully read all official correspondence, other sources of information for students and the official university noticeboards to be aware of changes to the information contained herein. The inclusion in a publication of details of a course in no way creates an obligation on the part of the university to teach it in any given year, or to teach it in the manner described. The university reserves the right to discontinue or vary courses at any time without notice. You should always check with the relevant faculty officers when planning your course. Some courses and units are described which may alter or may not be offered due to insufficient enrolments or changes to teaching staff.