# Bachelor of Electrical & Electronic Engineering (Honours)

This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek advice from your Program Advisor to ensure you remain on track.

**Program Plan**

**BACHELOR OF ELECTRICAL & ELECTRONIC ENGINEERING (HONOURS)**

**Program Option:**
Commencing in Semester 2

**Start Date:**
2017 to 2020

**Location:**
Callaghan

**Program Code:** 40066

**CRICOS Code:** 092849M

**CRICOS Provider:** 00109J

This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek advice from your Program Advisor to ensure you remain on track.

**Program Handbook**

**Course Handbook**

**Name:**

**Student No.:**

---

### Course Plan

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td>ENGG1500 Introduction to Professional Engineering</td>
<td>ENGG1003 Introduction to Procedural Programming</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td>ENGG1003 Introduction to Procedural Programming</td>
<td>MATH1120 Mathematics for Engineering, Science and Technology 2</td>
</tr>
<tr>
<td></td>
<td>MATH1120 Mathematics for Engineering, Science and Technology 2</td>
<td>ENGG2500 Sustainable Engineering Practice</td>
</tr>
<tr>
<td></td>
<td>MATH1220 Mathematical Discovery</td>
<td>---- OR ----\</td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
<td>ENGG2500 Sustainable Engineering Practice</td>
<td>ENGG1003 Introduction to Procedural Programming</td>
</tr>
<tr>
<td></td>
<td>ENGG1500 Introduction to Professional Engineering</td>
<td>MATH1120 Mathematics for Engineering, Science and Technology 2</td>
</tr>
<tr>
<td></td>
<td>MATH1220 Mathematical Discovery</td>
<td>ENGG2500 Sustainable Engineering Practice</td>
</tr>
<tr>
<td><strong>Year 4</strong></td>
<td>ENGG2500 Sustainable Engineering Practice</td>
<td>ENGG1003 Introduction to Procedural Programming</td>
</tr>
<tr>
<td></td>
<td>ENGG1500 Introduction to Professional Engineering</td>
<td>MATH1120 Mathematics for Engineering, Science and Technology 2</td>
</tr>
<tr>
<td></td>
<td>MATH1220 Mathematical Discovery</td>
<td>ENGG2500 Sustainable Engineering Practice</td>
</tr>
<tr>
<td><strong>Year 5</strong></td>
<td>ENGG2500 Sustainable Engineering Practice</td>
<td>ENGG1003 Introduction to Procedural Programming</td>
</tr>
<tr>
<td></td>
<td>ENGG1500 Introduction to Professional Engineering</td>
<td>MATH1120 Mathematics for Engineering, Science and Technology 2</td>
</tr>
<tr>
<td></td>
<td>MATH1220 Mathematical Discovery</td>
<td>ENGG2500 Sustainable Engineering Practice</td>
</tr>
</tbody>
</table>

**Compulsory Professional Practice:**

**Industrial Experience:** 12 Weeks

---

If you have any questions visit [NEWCASTLE.EDU.AU/ASKUON](http://NEWCASTLE.EDU.AU/ASKUON)
PROGRAM PLAN
BACHELOR OF ELECTRICAL & ELECTRONIC ENGINEERING (HONOURS)

To be eligible to graduate make sure you have completed 320 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core courses – 260 units
- Directed courses – 20 units
- Electives – 40 units, visit the Program Handbook for more information
- Students must not exceed 120 units at 1000 level in this program
- It is also a requirement that students complete a total of 12 weeks of industrial experience.
- The duration of this program is 4 year full-time (40 units per semester) or part-time equivalent.
- The maximum time to complete this program is 10 years.

Some courses have assumed knowledge and/or requisites, please refer to the individual Course Handbook. Please refer to the Program Handbook for specific information on program structure. If you are intending varying from this program plan please seek advice from your Program Advisor.
DIRECTED COURSES

Complete 20 units from:

- PHYS2211: Modern Physics 1
- ELEC3160: Principles and Design of Off-Grid Power Systems
- ELEC3251: Power Electronics and Renewable Energy Systems
- ELEC3400: Signal Processing
- ELEC3500: Telecommunication Networks
- PHYS3360: Advanced Electromagnetism
- ELEC4100: Electrical Systems
- ELEC4160: Advanced Drives and Power Electronics
- ELEC4210: Electronics Design
- ELEC4550: Wireless Communications
- ELEC4740: Internet of Things
- ELEC4720: Programmable Logic Design
- ENGG4440: Nonlinear Control and Estimation