# BACHELOR OF AEROSPACE SYSTEMS ENGINEERING (HONOURS)

**PROGRAM PLAN**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
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<tbody>
<tr>
<td>SEM 1</td>
<td>ENGG1003 Introduction to Procedural Programming <strong>CORE</strong></td>
<td>ENGG1500 Introduction to Professional Engineering <strong>CORE</strong></td>
<td>ENGG2500 Sustainable Engineering Practice <strong>CORE</strong></td>
<td>MATH1120* Maths for Engineering, Science &amp; Tech 2 <strong>CORE</strong></td>
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<td>MATH2310 Calculus of Science &amp; Engineering <strong>CORE</strong></td>
<td>ELEC2320 Electrical &amp; Electronic Circuits <strong>CORE</strong></td>
<td>ENGG3500 Managing Engineering Projects <strong>CORE</strong></td>
<td>MECH2360 Dynamics of Machines <strong>CORE</strong></td>
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<td>SEM 2</td>
<td>AERO2000 Aircraft Operations &amp; Performance <strong>CORE</strong></td>
<td>ELEC1310 Introduction to Electrical Engineering <strong>CORE</strong></td>
<td>AERO3400 Propulsion Systems <strong>CORE</strong> First offered in 2021</td>
<td>ENGG4801A Engineering Final Year Project A <strong>CORE</strong></td>
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<td>ENGG4801B Engineering Final Year Project B This must be successfully completed in semester immediately following ENGG4801A <strong>CORE</strong> First offered in 2022</td>
<td>ELEC1710 Digital and Computer Engineering 1 <strong>CORE</strong></td>
<td>ENGG4500 Engineering Complexity <strong>CORE</strong></td>
<td>AERO4100 Aircraft Systems &amp; Avionics <strong>CORE</strong></td>
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<td>ENGG4600 Automatic Flight Control Systems <strong>CORE</strong></td>
<td>MECH2710 Fluid Mechanics 1 <strong>CORE</strong></td>
<td>MECH2430 Mechanics of Solids 1 <strong>CORE</strong></td>
<td>AERO4500 Aerospace System Design <strong>CORE</strong></td>
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<td>MCHA3400 Embedded Systems Engineering <strong>CORE</strong></td>
<td>AERO4300 Aircraft Structural Design <strong>CORE</strong></td>
<td>MECH2370 Fluid Mechanics 2 <strong>CORE</strong></td>
<td>MCHA3500 Mechatronics Design 1 <strong>CORE</strong></td>
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**START DATE:** Semester 2 2019 – 2020

**LOCATION:** Callaghan

Information correct as of 20 July 2020 and subject to change

Program code: 40181

If you have any questions visit [NEWCASTLE.EDU.AU/ASKUON](http://NEWCASTLE.EDU.AU/ASKUON)

**COMPULSORY REQUIREMENT:** EXPOSURE TO PROFESSIONAL PRACTICE (EEP)/INDUSTRIAL EXPERIENCE (IE) 12 WEEKS

**COURSE STATUS KEY**

- **C** = Completed (including being award credit)
- **E** = Current enrolment
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 – 300 units
  - MATH courses - 20 units. The choice of maths courses is based on your assumed knowledge. To find out which MATH courses you should enrol in please see the Enrolling in Maths information. There is more information in your program handbook. Please note, completion of MATH1002 counts as 10 units of electives
- **Electives** – 20 units, of any level. Students can choose from any unrestricted course taught at the University (as long as it is not already a core course of this degree) Visit the course handbook to see a list of available electives. Please note, completion of MATH1002 counts as 10 units of electives

- Students must not exceed 120 units at 1000 level in this program
- Students must undertake 12 weeks of approved 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 student progress advisor.