



Bachelor of Engineering (Honours)/Bachelor of Aviation (International students)

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|---|---|---|
| Program code 1584 | Entry requirements 7.0 | Prerequisites NIL |
| Available at Nathan Campus | IELTS (Academic) (more) | Assumed knowledge Any General or Applied English subject (Units 3 and 4, C) |
| Duration 4 years full-time accelerated 5 years full-time equivalent | CRICOS code 094398F | Mathematical Methods (Units 3 and 4, C) |
| Credit points 400 | Commencing in Trimester 1 | Apply Now |
| Indicative fee \$41,500.00* per year (more) * 2024 indicative annual fee | | |

Degree requirements: Students who started Trimester 1 - 2025

For the award of *Bachelor of Engineering (Honours)/Bachelor of Aviation (BEng(Hons)/BAvn)*, you must successfully complete 400 credit points, made up of the core courses AND

- 130 credit points for an Engineering major (including a 10 credit point foundation course).

Other program requirements

You must successfully complete:

- no more than 140 credit points of Level 1 courses (the first digit of a course code denotes the level);
- at least 60 credit points of Level 3 courses or higher.

You must also complete a minimum of 12 weeks (60 days) of approved experience in an Engineering practice environment (or a satisfactory alternative) during your degree studies.

Honours

Classification of Honours - Bachelor of Engineering (Honours)

The class of Honours to be awarded to each student in this degree will be determined by the School Assessment Board on the basis of the Program Grade Point Average for the engineering components of the program and the performance in the final year IAP course.

A minimum IAP mark of 50% is required for the award of the Bachelor of Engineering (Honours).

Students who have repeated the IAP course will be eligible for no higher than Class III Honours. A second fail in the IAP course will result in termination of the student's enrolment in the program.

Cut-offs for Honours Classifications

- **Class I Honours:**
 - Program Grade Point Average - 6.200 (minimum)
 - Minimum IAP Mark - 80%
- **Class IIA Honours:**
 - Program Grade Point Average - 5.650 (minimum)
 - Minimum IAP Mark - 70%
- **Class IIB Honours:**
 - Program Grade Point Average - 5.000 (minimum)
 - Minimum IAP Mark - 60%
- **Class III Honours:**

- Program Grade Point Average - < 5.000
- Minimum IAP Mark - 50%

Australian Qualifications Framework (AQF) Level and Type

The **Australian Qualifications Framework (AQF)** is the national policy for regulated qualifications in Australian education and training. The Bachelor of Aviation is accredited as an AQF Level 7 - Bachelor Degree. The Bachelor of Engineering (Honours) is accredited as an AQF Level 8 - Bachelor Honours Degree.

Program learning outcomes

Program learning outcomes

Program Learning Outcomes communicate to the community the value of the Griffith educational experience as benchmarked against national qualification standards.

Program Learning Outcomes for the **Bachelor of Engineering (Honours)** and **Bachelor of Aviation** describe the knowledge, skills and the application of knowledge and skills you will acquire through studying the Griffith program of your choice.

Course list: Students starting Trimester 1 - 2025

Course offering information in program structures is a guide only. Please check the actual offering information in the Course Catalogue.

Students must check the prerequisite and incompatible requirements before selecting any course within this program.

Year 1

Students entering the program WITHOUT the assumed knowledge of Maths Methods or equivalent may choose to undertake 1017SCG Foundation Mathematics in their first trimester of study. Please contact the Program Director for further advice.

| Trimester | Course code | Requirement | Course title | CP |
|-----------|-------------|-----------------|-------------------------------------|----|
| Tri 1 | 1017SCG | Listed Elective | Foundation Mathematics (see Note 1) | 10 |

Note 1: Students who choose to complete 1017SCG (Foundation Maths) in Tri 1, are advised to complete 1010ENG (Maths 1) in Tri 2 and 1020ENG (Maths 2) in Tri 3.

Year 1

You must complete the following courses:

| Trimester | Course code | Requirement | Course title | CP |
|-----------|-------------|----------------------|--|----|
| Tri 1 | 1018ENG | Hons Core to Program | Engineering Science | 10 |
| Tri 1,3 | 1010ENG | Hons Core to Program | Engineering Mathematics 1 (see Note 1) | 10 |
| Tri 1 | 1505NSC | Core to Program | Flight Procedures I | 10 |
| Tri 1 | 1017ENG | Hons Core to Program | Engineering Materials | 10 |
| Tri 2 | 1504NSC | Core to Program | Aviation Biology and Medicine | 10 |
| Tri 2,3 | 1020ENG | Hons Core to Program | Engineering Mathematics 2 (see Note 1) | 10 |
| Tri 2 | 1008ENG | Hons Core to Program | Programming and Computing for Engineers | 10 |
| Tri 2 | 1508NSC | Core to Program | Airways Operation and Design | 10 |
| Tri 3 | 1022ENG | Hons Core to Program | Engineering Design Practice | 10 |
| Tri 3 | | Hons Core to Program | Foundation course for chosen Engineering major | 10 |

Note 1: Students who are required to complete 1017SCG (Foundation Maths) in Tri 1, are advised to complete 1010ENG (Maths 1) in Tri 2 and 1020ENG (Maths 2) in Tri 3.

Year 2

You must complete the following courses:

| Trimester | Course code | Requirement | Course title | CP |
|--------------|-------------|-----------------|----------------------------------|----|
| Tri 1 | 2205NSC | Core to Program | Calculus II | 10 |
| Tri 1,2 or 3 | | | Chosen Engineering major courses | 80 |

Transfer point: Bachelor of Engineering (Honours) (1542) with the Electronic and UAV Engineering major. Students should apply for a program transfer.

Year 3

You must complete the following courses:

| Trimester | Course code | Requirement | Course title | CP |
|-----------|-------------|----------------------|---|----|
| Tri 1 | 3304ENG | Hons Core to Program | Control Systems | 10 |
| Tri 1 | 2520NSC | Core to Program | Aircraft Operations, Performance and Planning Part I | 10 |
| Tri 1 | 2517NSC | Core to Program | Aviation Meteorology | 10 |
| Tri 1,2 | | | Chosen Engineering major courses | 20 |
| Tri 2 | 2519NSC | Core to Program | Navigation | 10 |
| Tri 2 | 3533NSC | Core to Program | Aircraft Operations, Performance and Planning Part II | 10 |
| Tri 3 | 3528NSC | Core to Program | Navigational Systems | 10 |
| Tri 3 | 2539NSC | Core to Program | Introduction to Aviation Law | 10 |
| Tri 3 | 2533NSC | Core to Program | Flight Procedures II | 10 |
| Tri 3 | 2523NSC | Core to Program | Light Aircraft Systems | 10 |

Year 4

You must complete the following courses:

| Trimester | Course code | Requirement | Course title | CP |
|-----------|-------------|----------------------|---------------------------------|----|
| Tri 1 | 2521NSC | Core to Program | Aerodynamics Part I | 10 |
| Tri 1 | 2515NSC | Core to Program | Human Factors for Pilots I | 10 |
| Tri 1,2 | | Core to Major | Chosen Engineering major course | 20 |
| Tri 2 | 3004ENG | Hons Core to Program | Project Management Principles | 10 |
| Tri 2 | 3520NSC | Core to Program | Aerodynamics Part II | 10 |
| Tri 3 | 6002ENG | Hons Diss Core Prog | IAP | 40 |

Note 1: It is a requirement that students complete a minimum of 60 days of approved experience in an Engineering practice environment (or satisfactory alternative) during their degree studies.

Bachelor of Engineering (Honours) - Majors (2 available)

Electronic Engineering

Year 1

You must complete the following foundation course:

| Trimester | Course code | Requirement | Course title | CP |
|-----------|-------------|--------------------|-------------------|----|
| Tri 3 | 1301ENG | Hons Core to Major | Electric Circuits | 10 |

Year 2

You must complete the following courses:

| Trimester | Course code | Requirement | Course title | CP |
|-----------|-------------|--------------------|------------------------------------|----|
| Tri 1 | 2319ENG | Hons Core to Major | Introduction to Electronics | 10 |
| Tri 1 | 2322ENG | Hons Core to Major | Engineering C | 10 |
| Tri 2 | 2314ENG | Hons Core to Major | Engineering Electromagnetics | 10 |
| Tri 2 | 2303ENG | Hons Core to Major | Embedded Systems | 10 |
| Tri 2 | 1303ENG | Hons Core to Major | Digital Systems | 10 |
| Tri 2 | 2301ENG | Hons Core to Major | Semiconductor Devices and Circuits | 10 |
| Tri 3 | 6001ENG | Hons Core to Major | Avionics and Aircraft Practice | 20 |

Year 3

You must complete the following course:

| Trimester | Course code | Requirement | Course title | CP |
|-----------|-------------|--------------------|------------------------------------|----|
| Tri 1 | 2305ENG | Hons Core to Major | Signals and Systems | 10 |
| Tri 2 | 3324ENG | Hons Core to Major | Communication Systems and Circuits | 10 |

Year 4

You must complete the following course:

| Trimester | Course code | Requirement | Course title | CP |
|-----------|-------------|--------------------|--------------------------------|----|
| Tri 1 | 3301ENG | Hons Core to Major | Practical Electronics | 10 |
| Tri 2 | 6303ENG | Hons Core to Major | Advanced Communication Systems | 10 |

Mechanical Engineering**Year 1**

You must complete the following foundation course:

| Trimester | Course code | Requirement | Course title | CP |
|-----------|-------------|--------------------|-----------------------|----|
| Tri 3 | 1501ENG | Hons Core to Major | Engineering Mechanics | 10 |

Year 2

You must complete the following courses:

| Trimester | Course code | Requirement | Course title | CP |
|-----------|-------------|--------------------|--------------------------------|----|
| Tri 1 | 2517ENG | Hons Core to Major | Kinematics and Dynamics | 10 |
| Tri 1 | 2101ENG | Hons Core to Major | Mechanics of Materials I | 10 |
| Tri 1 | 2002ENG | Hons Core to Major | Fluid Mechanics and Hydraulics | 10 |
| Tri 2 | 2501ENG | Hons Core to Major | Manufacturing Technology | 10 |
| Tri 2 | 2318ENG | Hons Core to Major | Electromechanics | 10 |
| Tri 2 | 2201ENG | Hons Core to Major | Engineering Thermodynamics | 10 |
| Tri 2 | 1508ENG | Hons Core to Major | Digital Design and Modelling | 10 |
| Tri 3 | 2701ENG | Hons Core to Major | Aircraft Practical | 10 |

Year 3

You must complete the following course:

| Trimester | Course code | Requirement | Course title | CP |
|-----------|-------------|--------------------|-------------------------------|----|
| Tri 1 | 2502ENG | Hons Core to Major | Mechanical Engineering Design | 10 |
| Tri 2 | 2105ENG | Hons Core to Major | Mechanics of Materials 2 | 10 |

Year 4

You must complete the following course:

| Trimester | Course code | Requirement | Course title | CP |
|-----------|-------------|--------------------|-----------------------------|----|
| Tri 1 | 3508ENG | Hons Core to Major | Materials and Manufacturing | 10 |
| Tri 2 | 3511ENG | Hons Core to Major | Design of Machine Elements | 10 |