



Bachelor of Engineering (Honours)/Bachelor of Computer Science (Domestic students)

Program code 1585	Entry requirements 70.00	Prerequisites NIL
Available at Gold Coast Campus	ATAR/RANK 2024 (more)	Assumed knowledge Any General or Applied English subject (Units 3 and 4, C)
Duration 5 years full-time 10 years part-time	Commencing in Trimester 1 and Trimester 2	Mathematical Methods (Units 3 and 4, C)
Credit points 400		
Indicative fee \$8,500.00* per year (more) * 2024 indicative annual CSP fee		

Degree requirements: Students who started Trimester 2 - 2024

For the award of *Bachelor of Engineering (Honours)/Bachelor of Computer Science [BEng(Hons)/BCompSc]*, you must successfully complete 400 credit points, made up of

- 160 credit points of core courses
- 20 credit points of foundation courses for your chosen Engineering major;
- 160 credit points for an Engineering major;
- 60 credit points for a Computer Science major;

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 Computer Science 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 Computer Science** 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 2 - 2024

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

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

Year 1

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 2,3	1020ENG	Hons Core to Program	Engineering Mathematics 2	10
Tri 2	1018ENG	Hons Core to Program	Engineering Science	10
Tri 2	1008ENG	Hons Core to Program	Programming and Computing for Engineers	10
Tri 3	1017ENG	Hons Core to Program	Engineering Materials	10
Tri 1,3	1010ENG	Hons Core to Program	Engineering Mathematics 1	10
Tri 1,3	1022ENG	Hons Core to Program	Engineering Design Practice	10

Electrical and Electronic Engineering

You must complete 20 credit points (for your chosen major) from the following of foundation courses:

Trimester	Course code	Requirement	Course title	CP
Tri 2	1303ENG	Mandatory Prereq	Digital Systems	10
Tri 2,3	1301ENG	Mandatory Prereq	Electric Circuits	10

Mechanical Engineering

You must complete 20 credit points (for your chosen major) from the following of foundation courses:

Trimester	Course code	Requirement	Course title	CP
Tri 2	1508ENG	Mandatory Prereq	Digital Design and Modelling	10
Tri 2,3	1501ENG	Mandatory Prereq	Engineering Mechanics	10

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 2	1808ICT	Core to Program	Discrete Structures	10
Tri 1,2	1811ICT	Core to Program	Programming Principles	10
Tri 1,2			Engineering major courses	50

Year 3

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	1007ICT	Core to Program	Computer Systems and Cyber Security	10
Tri 1	1004ICT	Core to Program	Professional ICT Practice	10
Tri 2	1011ICT	Core to Program	Applied Computing	10
Tri 2	1013ICT	Core to Program	Mathematics for Computer Science	10
Tri 1,2			Engineering major courses	20
Tri 1,2			Computer Science major courses	20

Year 4

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2801ICT	Core to Program	Computing Algorithms	10
Tri 2	2810ICT	Core to Program	Software Technologies	10
Tri 2	3004ENG	Hons Core to Program	Project Management Principles	10
Tri 1,2			Engineering major courses	30
Tri 1,2			Computer Science major courses	20

Year 5

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,2			Engineering major courses	60
Tri 1,2			Computer Science major course	20

Bachelor of Computer Science - Majors (2 available)

Algorithms and Computing

You must complete the following:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2800ICT		Object Oriented Programming	10
Tri 1	2802ICT		Intelligent Systems	10
Tri 2	3825ICT		Theory of Computing	10
Tri 1	3008ICT		Deep Learning (offered from 2026)	10
Tri 2	3005ICT		Distributed Programming (offered from 2026)	10
Tri 1	3805ICT		Advanced Algorithms	10

Data Science and Artificial Intelligence

Data Science & Artificial Intelligence

You must complete the following:

Trimester	Course code	Requirement	Course title	CP
Tri 2	2030ICT		Introduction to Big Data Analytics	10
Tri 1	2802ICT		Intelligent Systems	10
Tri 1	3806ICT		Robotics, Agents and Reasoning	10
Tri 1	3008ICT		Deep Learning (offered from 2026)	10
Tri 2	3006ICT		Robotics and Computer Vision (offered from 2026)	10
Tri 2	3804ICT		Data Mining	10

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

Electrical and Electronic Engineering

Year 2

Trimester	Course code	Requirement	Course title	CP
Tri 1	2319ENG	Hons Core to Major	Introduction to Electronics	10
Tri 2	2318ENG	Hons Core to Major	Electromechanics	10
Tri 2	2305ENG	Hons Core to Major	Signals and Systems	10
Tri 2	2314ENG	Hons Core to Major	Engineering Electromagnetics	10
Tri 2	3325ENG	Hons Core to Major	Numerical Engineering Methods	10

Year 3

Trimester	Course code	Requirement	Course title	CP
Tri 2	2322ENG	Hons Core to Major	Engineering C	10
Tri 2	2303ENG	Hons Core to Major	Embedded Systems	10

Year 4

Trimester	Course code	Requirement	Course title	CP
Tri 1	3304ENG	Hons Core to Major	Control Systems	10
Tri 1	3312ENG	Hons Core to Major	Electrical Design Project	10
Tri 1	3322ENG	Hons Core to Major	Electromagnetic Waves and Propagation	10

Year 5

Trimester	Course code	Requirement	Course title	CP
Tri 1	6321ENG	Hons Core to Major	Discrete Time Signal Processing	10
Tri 1	6315ENG	Hons Core to Major	Communication Systems	10
Tri 2	6002ENG	Hons Core to Major	IAP (see Note)	40

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

Mechanical Engineering

Year 2

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2101ENG	Hons Core to Major	Mechanics of Materials I	10
Tri 2	2105ENG	Hons Core to Major	Mechanics of Materials 2	10
Tri 2	2201ENG	Hons Core to Major	Engineering Thermodynamics	10
Tri 2	2318ENG	Hons Core to Major	Electromechanics	10
Tri 2	2501ENG	Hons Core to Major	Manufacturing Technology	10

Year 3

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2502ENG	Hons Core to Major	Mechanical Engineering Design	10
Tri 2	3511ENG	Hons Core to Major	Design of Machine Elements	10

Year 4

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2002ENG	Hons Core to Major	Fluid Mechanics and Hydraulics	10
Tri 1	2517ENG	Hons Core to Major	Kinematics and Dynamics	10
Tri 1	3304ENG	Hons Core to Major	Control Systems	10

Year 5

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	3508ENG	Hons Core to Major	Materials and Manufacturing	10
Tri 1	4007ENG	Hons Core to Major	Heat and Mass Transfer Engineering	10
Tri 2	6002ENG	Hons Core to Major	IAP (see Note)	40

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