Bachelor of Engineering (Honours)/Bachelor of Industrial Design (International students)

Program code
1441

Available at
Gold Coast Campus

Duration
5 years full-time

Credit points
400

Indicative fee
$40,000.00* per year (more)
* 2024 indicative annual fee

Entry requirements
6.5
IELTS (Academic) (more)

CRICOS code
094981B

Commencing in
Trimester 1 and Trimester 2

Prerequisites
NIL

Assumed knowledge
Any General or Applied English subject (Units 3 and 4, C)
Mathematical Methods (Units 3 and 4, C)

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Degree requirements: Students who started Trimester 2 - 2024

For Domestic and those International students not required to complete the English Language Enhancement course

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

- 20 credit points for foundation courses for the Mechanical Engineering major;
- 120 credit points for the Mechanical Engineering major;
- 40 credit points for the dissertation
- 10 credit points for a listed elective.

For students required to complete the English Language Enhancement course

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

- 10 credit points for the English Language Enhancement course (5903LHS) in placed of a Listed Elective;
- 20 credit points for foundation courses for the Mechanical Engineering major;
- 120 credit points for the Mechanical Engineering major;
- 40 credit points for the dissertation.

Other program requirements

You must successfully complete:

- no more than 130 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 Engineering (Honours) is accredited as an AQF Level 8 - Bachelor Honours Degree.The Bachelor of Industrial Design is accredited as an AQF Level 7 - Bachelor Degree.

English Language Enhancement

All undergraduate International students are required to complete an **English Language Enhancement Course** unless specific criteria are met as specified in Section 5.0 Qualifications Procedure.

The following course must be completed in the first trimester of study:

- 5903LHS Language and Communication for Sciences

Advice regarding the requirement to complete the English Language Enhancement Course is available via the *myGriffith* portal (in the To Do List).

Students whose first language is English are not permitted to undertake this course.

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 Industrial Design 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.

English Language Enhancement course

Students required to undertake the English Language Enhancement course must complete 5903LHS in their first trimester of study.
The English Language Enhancement course is to be taken in place of the Listed elective in your program.

Trimester	Course code	Requirement	Course title	CP
Tri 2	5903LHS	English Enhancement	Language and Communication for Sciences	10

Year 1

Students commencing in Trimester 2 must complete Trimester 3 directly afterwards then study the remainder of their program with students who started in Trimester 1.

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	1010ENG	Hons Core to Program	Engineering Mathematics 1	10
Tri 2	1018ENG	Hons Core to Program	Engineering Science	10
Tri 2	1508ENG	Hons Core to Program	Digital Design and Modelling	10
Tri 2	1008ENG	Hons Core to Program	Programming and Computing for Engineers	10
Tri 3	1020ENG	Hons Core to Program	Engineering Mathematics 2	10
Tri 3	1017ENG	Hons Core to Program	Engineering Materials	10
Tri 1,3	1022ENG	Hons Core to Program	Engineering Design Practice	10
Tri 3	1501ENG	Hons Core to Program	Engineering Mechanics	10

Year 2

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	1908ENG	Core to Program	Designer Languages	10
Tri 1	2108ENG	Core to Program	Industrial Design Studio 2	20
Tri 1			Mechanical Engineering major course	10
Tri 2	2208ENG	Core to Program	Industrial Design Studio 3	20
Tri 2	2608ENG	Core to Program	3D Digital Modelling for Manufacture	10
Tri 2			Mechanical Engineering major course	10

Year 3

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2205NSC	Hons Core to Program	Calculus II	10
Tri 1			Mechanical Engineering major courses	20
Tri 1	3631ENG	Core to Program	Human Machine Interfaces	10
Tri 2			Mechanical Engineering major courses	40

Year 4

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	3128ENG	Hons Core to Program	Industrial Design Studio 4	20
Tri 1			Mechanical Engineering major course	10
Tri 2			Mechanical Engineering major course	10
Tri 2			Listed elective	10
Tri 1	6522ENG	Core to Program	Computational Statics and Dynamics	10
Tri 2	3801ENG	Core to Program	Design and Manufacture of Composites	10

Year 5

You must complete the following courses:

Trimester	Type	Course code	Requirement	Course title	CP
Tri 1		3900ESC	Hons Core to Program	Work Integrated Learning Placement	20
Tri 1				Mechanical Engineering major courses	20
Tri 2	HCC-B	6002ENG	Hons Diss Core Prog	IAP	40

Bachelor of Engineering (Honours) - Majors (1 available)
Mechanical Engineering

Year 2

You must complete the following:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2502ENG	Hons Core to Major	Mechanical Engineering Design	10
Tri 2	3004ENG	Hons Core to Major	Project Management Principles	10

Year 3

You must complete the following:

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 2	2105ENG	Hons Core to Major	Mechanics of Materials 2	10
Tri 2	2501ENG	Hons Core to Major	Manufacturing Technology	10
Tri 2	2201ENG	Hons Core to Major	Engineering Thermodynamics	10
Tri 2	3511ENG	Hons Core to Major	Design of Machine Elements	10

Year 4

You must complete the following:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2002ENG	Hons Core to Major	Fluid Mechanics and Hydraulics	10
Tri 2	2318ENG	Hons Core to Major	Electromechanics	10

Year 5

You must complete the following:

Trimester	Course code	Requirement	Course title	CP
Tri 1	4007ENG	Hons Core to Major	Heat and Mass Transfer Engineering	10
Tri 1	3508ENG	Hons Core to Major	Materials and Manufacturing	10

Electives (1 available)
Listed electives

Trimester	Course code	Requirement	Course title	CP
Tri 2	6309ENG	Listed Elective	Mechatronic Systems Design and Engineering	10
Tri 1	6525ENG	Listed Elective	Digital Manufacturing	10
Tri 1	6505ENG	Listed Elective	Manufacturing with Composites	10
Tri 2	3619QCA	Listed Elective	Digital Making: Objects and Furniture	10
Tri 2	1704ENG	Listed Elective	Electrics and Electronics for Designers	10
Tri 1	1102ENG	Listed Elective	3D Modelling for 3D Printing	10