



## Master of Professional Engineering (International students)

<b>Program code</b> 5728	<b>Admission requirements</b> Bachelor degree in Engineering (5.0 GPA) or higher <a href="#">(more)</a>	<b>CRICOS code</b> 097689D
<b>Available at</b> Gold Coast Campus, Nathan Campus		<b>Commencing in</b> Trimester 1 and Trimester 2 <a href="#">Apply Now</a>
<b>Duration</b> 2 years full-time		
<b>Credit points</b> 160		
<b>Indicative fee</b> \$42,500.00* per year <a href="#">(more)</a> * 2024 indicative annual fee		

### Degree requirements: Students who started Trimester 2 - 2024

To be eligible for the award of *Master of Professional Engineering (MProfEng)*, a student must acquire 160 credit points as prescribed below:

- gain 60 credit points for core courses
- gain 80 credit points for one major
- gain 20 credit points for listed electives
- complete a minimum of 60 days of approved experience in an engineering practice environment (or a satisfactory alternative).

This degree may be awarded **with Distinction** where a student achieves a minimum program GPA of 6.5 with no failed courses. The words "This award was achieved with Distinction" will be recorded on the testamur.

### Australian Qualifications Framework (AQF) Level and Type

The **Australian Qualifications Framework (AQF)** is the national policy for regulated qualifications in Australian education and training. This qualification is accredited as an AQF Level 9 - Masters Degree (Coursework).

### 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 this award** 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.**

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	<a href="#">7201ENG</a>		Project Management	10
Tri 1,2	<a href="#">7001ENG</a>		Research Methods for Engineers	10
Tri 1,2			Major courses	80
Tri 1,2			Listed elective courses	20
Tri 1,2	<a href="#">7605ENG</a>		Industry Affiliates Program - Dissertation	40

Students must complete 80 credit points including 7201ENG and 7001ENG prior to undertaking 7605ENG. It is also recommended that students complete core courses for the chosen major before undertaking listed electives.

## Majors (5 available)

### Civil Engineering (Gold Coast only)

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	7310ENG		Structural Analysis	10
Tri 1	7318ENG		Geotechnical Engineering	10
Tri 2	6106ENG		Transportation Engineering	10
Tri 2	6003ENG		Integrated Design Project	10
Tri 2	6110ENG		Coastal Engineering and Modelling	10
Tri 2	7317ENG		Concrete Structures	10
Tri 2	7316ENG		Design for Civil Engineers	10
Tri 2	6109ENG		Construction Project Management	10

### Electronic and Energy Engineering (Nathan only)

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	7514ENG		Practical Electronics	10
Tri 1	7413ENG		Fluid Mechanics	10
Tri 1	7519ENG		Energy Efficiency	10
Tri 1	7576ENG		SCADA Systems (offered from 2020)	10
Tri 1	7402ENG		Cleaner Production and Circular Economy	10
Tri 2	7405ENG		Renewable Energy Systems	10
Tri 2	7520ENG		Energy Storage and Power Systems	10
Tri 2	7521ENG		Real World Energy	10

### Electronic Engineering (Nathan only)

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	7576ENG		SCADA Systems	10
Tri 1	7514ENG		Practical Electronics	10
Tri 1	7515ENG		Computer Systems	10
Tri 1	7512ENG		Linear Electromagnetics	10
Tri 2	7506ENG		Advanced Communications Systems (offered odd years)	10
Tri 2	7518ENG		Design of Real-Time Systems (offered odd years)	10
Tri 2	7513ENG		Integrated Circuit Design	10
Tri 2	7510ENG		Image Processing and Machine Vision	10

### Environmental Engineering (Nathan only)

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	7411ENG		Water and Wastewater Treatment Fundamentals	10
Tri 1	7412ENG		Solid Waste Management	10
Tri 2	7406ENG		Site Remediation and Rehabilitation (offered every second odd year eg. 2021, 2023 etc)	10
Tri 2	3113ENG		Civil Engineering Design Project	10
Tri 2	6209ENG		System Design Project	10
Tri 2	7415ENG		Hydrologic and Hydraulic Modelling	10
Tri 2	7401ENG		Air Quality Monitoring and Control	10
Tri 2	7407ENG		Environmental Management Systems	10

## Mechanical Engineering (Gold Coast only)

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	6527ENG		Heat and Mass Transfer (not offered from 2021)	10
			<b>OR</b>	
Tri 1	4007ENG		Heat and Mass Transfer Engineering	10
Tri 2	7015ENG		Constitutive Material Modelling	10
Tri 1	6505ENG		Manufacturing with Composites	10
Tri 1	6525ENG		Digital Manufacturing	10
Tri 1	7311ENG		Mechanics of Materials 1	10
Tri 1	6508ENG		Fluids and CFD	10
Tri 2	6522ENG		Computational Statics and Dynamics	10
Tri 2	6524ENG		System Dynamics and Advanced Control	10

## Electives (1 available)

### Listed Electives

Students may choose 20 credit points from any of the listed electives below or other Level 6 or Level 7 courses approved by the Program Director:

#### Civil Engineering

Trimester	Course code	Requirement	Course title	CP
Tri 1	7303ENG		Advanced Foundation Engineering	10
Tri 1	7309ENG		Advanced Water Engineering Practice	10
Tri 2	7207ENG		Advanced Topics in Engineering Management	10
Tri 2	7304ENG		Advanced Reinforced and Pre-stressed Concrete	10
Tri 2	7305ENG		Advanced Steel Structures	10

#### Electronic Engineering

Trimester	Course code	Requirement	Course title	CP
Tri 1	7519ENG		Energy Efficiency	10
Tri 2	7504ENG		Advanced Digital Signal Processing	10
Tri 2	7521ENG		Real World Energy	10
Tri 2	7405ENG		Renewable Energy Systems	10

#### Electronic and Energy Engineering

Trimester	Course code	Requirement	Course title	CP
Tri 1	7515ENG		Computer Systems	10
Tri 2	7504ENG		Advanced Digital Signal Processing (offered odd years)	10
Tri 1	7512ENG		Linear Electromagnetics	10
Tri 2	7506ENG		Advanced Communications Systems (offered odd years)	10
Tri 2	7507ENG		Advanced Computer Systems (offered even years)	10
Tri 2	7510ENG		Image Processing and Machine Vision (offered even years)	10
Tri 2	7513ENG		Integrated Circuit Design	10
Tri 2	7518ENG		Design of Real-Time Systems (offered odd years)	10

#### Environmental Engineering

Trimester	Course code	Requirement	Course title	CP
Tri 1	7402ENG		Cleaner Production and Circular Economy	10
Tri 1	7409ENG		Industrial Water and Wastewater Treatment	10
Tri 2	7404ENG		Advanced Water and Wastewater Engineering	10
Tri 2	7408ENG		Hazardous Waste Management	10
Tri 2	7405ENG		Renewable Energy Systems	10

#### Mechanical Engineering

Trimester	Course code	Requirement	Course title	CP
Tri 1	7310ENG		Structural Analysis	10
Tri 2	7207ENG		Advanced Topics in Engineering Management	10
Tri 2	7204ENG		Risk Analysis and Management	10
Tri 2	6309ENG		Mechatronic Systems Design and Engineering	10