

Course Offer Guide

The Course Offer Guide is an integrated tool within the UniSQ Handbook designed to help students plan their studies with confidence. It provides a clear overview of:

- Course availability across the academic year (e.g. Trimester 1, Block 2).
- Delivery mode for each course, whether online, on-campus, or external.
- Campus offerings, showing where each unit is available.

This guide supports informed decision-making by allowing students to explore flexible study options and align their enrolment with personal and academic goals.

Export Information

Details in this file are accurate as at the date of export/printing and are subject to change during the year and from year to year. This document is provided to enable users to make notes and annotations, as needed.

Contents within the Course Offerings section of this document are a condensed version of the UniSQ Handbook. For detailed information, check <https://handbook-guide.unisq.edu.au/program/2024/GDNS>.

Once exported, UniSQ will no longer accept this document as a source-of-truth for curriculum content. Users must check with source systems to confirm the accuracy of data after export.

Generated: 31 March 2026

Sources

- [UniSQ Handbook](#)
- [UniSQ Course Offer Guide](#)
- [UConnect](#)

Legend

Abbreviations used include:

Code	Meaning	Colour
TR1-TR3	Trimester 1-3	-
BL1-BL6	Block 1-6	-
YL1-YL3	Year-long 1-3	-
RES1-RES8	Research 1-8	-
ON	On-campus	UniSQ Gold
OL	Online	UniSQ Dark Plum

Code	Meaning	Colour
EXT	External	UniSQ Fire Sky red
Mixed (e.g. ON / OL)	More than one mode (e.g. On-campus / Online)	UniSQ Soft Pink

GDNS - Graduate Diploma of Professional Engineering

Program Code	GDNS
Program Type	Postgraduate
Credit Points	8
UniSQ Handbook	https://handbook-guide.unisq.edu.au/program/2024/GDNS
Course Offer Guide	https://course-offer-guide.unisq.edu.au/2024/GDNS.html

Program Rules

The Graduate Diploma of Engineering Science comprises eight single unit academic courses as follows:

- Schedule A: Four Core courses (four units)
- Schedule B: Four Specialisation courses (four units)

Course Offerings

Aerospace Engineering (8 Units)

Schedule A: Core Courses (4 Units)

Students must complete all four courses listed in this schedule.

Course	Toowoomba		
	TR1	TR2	TR3
EBE5003 - Research Training 1.00 Unit(s) Course Co-requisite Course Pre-requisites: Course Co-requisite: (Course ENG5001 OR Course ENG5002) Course Pre-requisites: (Course ENG5001 OR Course ENG5002) Other: Pre-requisite: Students must be enrolled in one of the following Programs: MENS or MSPT or GDNS or GCNS or GDST Pre-requisite or Co-requisite: ENG5001 or ENG5002	ON / OL		OL / ON

	Toowoomba		
Course	TR1	TR2	TR3
ENG5001 - Professional Skills in Engineering 1.00 Unit(s) No requisites	OL		
ENG5500 - Advanced Aerospace Systems 1.00 Unit(s) Other: Pre-requisite: Students must be enrolled in the following Program: MENS (Aerospace Engineering specialisation)		OL	
ENG6208 - Advanced Engineering Project Management 1.00 Unit(s) No requisites	OL / ON		

Schedule B: Specialisation Courses (4 Units)

Students must complete four of the courses listed in this schedule. Students from Mechanical undergraduate engineering programs choose from MECxxxx courses and students from Electrical undergraduate engineering programs choose from ELExxxx courses.

Students undertaking transitional studies from a non-engineering undergraduate degree may require a special enrolment pattern in lieu of some or all of schedule B courses. Please contact the School of Engineering Program Director (Post-graduate) via usq.support@usq.edu.au for alternative of up to 4 units of advanced undergraduate courses to complete pre-requisite engineering knowledge to allow future potential articulation into Master of Professional Engineering.

	Springfield			Toowoomba		
Course	TR1	TR2	TR3	TR1	TR2	TR3
ELE4109 - Measurement Science and Instrument Engineering 1.00 Unit(s) No requisites **Not Offered**						
ELE4605 - Fields and Waves 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course ELE2103 AND Course ELE2601) AND Course ENM1600 Other: Pre-requisite: {(MAT1502 or ENM1600) and ELE2103 and ELE2601} or Students must be enrolled in one of the following Programs: MEPR or MENS or GCNS or GDNS	ON			OL / ON		
ELE4606 - Communication Systems 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course ELE2504 OR Course ELE2601) Other: Pre-requisite: (ELE2504 and ELE2601)		ON			ON / OL	

	Springfield			Toowoomba		
Course	TR1	TR2	TR3	TR1	TR2	TR3
or Students must be enrolled in one of the following Programs: GCEN or METC or MEPR or MENS or GCNS or GDNS						
ELE4607 - Advanced Digital Communications 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course ELE1301 Other: Pre-requisite: ELE1301 or Students must be enrolled in one of the following Programs: GCEN or METC or GCNS or GDNS or MENS or MEPR				OL		
ELE5605 - Electro-Magnetic Modelling 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course ELE4605 Other: Students must be enrolled in one of the following Programs: MENS or MEPR or GCNS or GDNS						ON / OL
ELE6005 - Electronic Systems Integration 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course ELE4606 AND Course ELE4805 AND Course ELE5001 AND Course ENG5105) Other: Students must be enrolled in one of the following programs: the MEPR or GCNS or GDNS or MENS					ON / OL	OL / ON
ENG5105 - Advanced Numerical Modelling 1.00 Unit(s) Other: Pre-requisite: Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS or MEPR					OL / ON	ON / OL
ENG6208 - Advanced Engineering Project Management 1.00 Unit(s) No requisites				OL / ON		
MEC4108 - Thermofluids 3 1.00 Unit(s) Course Anti-requisite Course Pre-requisites: Course Anti-requisite: Course MEC4103 Course Pre-requisites: (Course MEC3107 AND Course ENM2600 AND Course ENG3104) Other: Pre-requisite: (MEC3107 & ENM2600 & ENG3104) or Students must be enrolled in one of the following Programs: MENS or MEPR or GCNS or GDNS or GEPR	ON			ON / OL		
MEC4302 - Computational Mechanics in Design 1.00 Unit(s)	ON			ON / OL		

	Springfield			Toowoomba		
Course	TR1	TR2	TR3	TR1	TR2	TR3
Course Pre-requisites: Course Pre-requisites: (Course MEC2304 AND Course MEC2401 AND Course MEC2402) Other: Pre-requisite: (MEC2304 and MEC2401 and MEC2402) or Students must be enrolled in one of the following Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS						
MEC5100 - Computational Fluid Dynamics 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course MEC3107 OR Course MEC4108 OR Course MEC3102 OR Course MEC5107 OR Course ENV3104 OR Course ENV5104) Other: Pre-requisite: MEC3107 or MEC3102 or MEC4108 or MEC5107 or ENV3104 or ENV5104 or Students must be enrolled in the following Program: MEPR				OL		
MEC5107 - Thermofluids 1.00 Unit(s) No requisites					ON / OL	
MEC5109 - Aerospace Propulsion Systems 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course MEC3107 OR Course MEC4108 OR Course MEC5107)						OL
MEC5203 - Fibre Reinforced Composites 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course MEC1201 AND Course MEC2402) AND (Course ENM2600 OR Course MAT2100) Other: Students must be enrolled in one of the following Programs: GCNS or GDNS or MEPR or MENS						ON / OL
MEC6203 - Advanced Materials Technology 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course MEC3203 Other: Students must be enrolled in one of the following Programs: GCEN or GCNS or GDNS or MEPR or MENS					OL / ON	
MEC6306 - Advanced Aerospace Transport Structures 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course MEC4302 AND Course MEC5203) **Not Offered**						

Agricultural Engineering (8 Units)

Schedule A: Core Courses (4 Units)

Students must complete all four courses listed in this schedule.

Course	Toowoomba	
	TR1	TR3
AGR8003 - Critical Issues in Agriculture 1.00 Unit(s) No requisites		
EBE5003 - Research Training 1.00 Unit(s) Course Co-requisite Course Pre-requisites: Course Co-requisite: (Course ENG5001 OR Course ENG5002) Course Pre-requisites: (Course ENG5001 OR Course ENG5002) Other: Pre-requisite: Students must be enrolled in one of the following Programs: MENS or MSPT or GDNS or GCNS or GDST Pre-requisite or Co-requisite: ENG5001 or ENG5002	ON / OL	OL / ON
ENG5001 - Professional Skills in Engineering 1.00 Unit(s) No requisites	OL	
ENG6208 - Advanced Engineering Project Management 1.00 Unit(s) No requisites	OL / ON	

Schedule B: Specialisation Courses (4 Units)

Students must complete four of the courses listed in this schedule.

Students undertaking transitional studies from a non-engineering undergraduate degree may require a special enrolment pattern in lieu of some or all of schedule B courses. Please contact the School of Engineering Program Director (Post-graduate) via usq.support@usq.edu.au for alternative of up to 4 units of advanced undergraduate courses to complete pre-requisite engineering knowledge to allow future potential articulation into Master of Professional Engineering.

Course	Toowoomba		
	TR1	TR2	TR3
AGR4305 - Agricultural Soil Mechanics 1.00 Unit(s) No requisites	ON / OL		
AGR6002 - Emerging Technologies in Agriculture 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite:		OL / ON	

Course	Toowoomba		
	TR1	TR2	TR3
Course AGR8002			
AGR6305 - Applications of Advanced Technology in Agriculture 1.00 Unit(s) Other: Pre-requisite: AGR3305 or Students must be enrolled in one of the following Programs: MENS or MSCN or GDNS or GCNS			OL / ON
CLI8003 - Climate, Food, Water and Energy Security 2.00 Unit(s) No requisites			
ENG5105 - Advanced Numerical Modelling 1.00 Unit(s) Other: Pre-requisite: Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS or MEPR		OL / ON	ON / OL
ENV4106 - Irrigation Science 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course AGR3304 Other: Pre-requisite: AGR3304 or Students must be enrolled in one of the following Programs: GCEN or GCSC or GDSI or METC or MEPR or GCNS or GDNS or MENS or MSCN Recommended pre-requisite: ENG1002 and ENV2103 and ENM1600		ON / OL	
ENV4204 - Environmental Technology 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course ENV2105 Other: Pre-requisite: ENV2105 or Students must be enrolled in one of the following Programs: PDEV or GCEN or METC or MEPR or GCNS or GDNS or MENS	OL / ON		
ENV5104 - Advanced Hydraulic Systems 1.00 Unit(s) Other: Pre-requisite: Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS or MEPR		ON / OL	

Civil Engineering (8 Units)

Schedule A: Core Courses (4 Units)

Students must complete all four courses listed in this schedule.

Course	Toowoomba		
	TR1	TR2	TR3
CIV5403 - Advanced Geotechnical Engineering 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course CIV2403 Other: Pre-requisite: CIV2401 or CIV2403 or Students must be enrolled in one of the following Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS		OL / ON	
EBE5003 - Research Training 1.00 Unit(s) Course Co-requisite Course Pre-requisites: Course Co-requisite: (Course ENG5001 OR Course ENG5002) Course Pre-requisites: (Course ENG5001 OR Course ENG5002) Other: Pre-requisite: Students must be enrolled in one of the following Programs: MENS or MSPT or GDNS or GCNS or GDST Pre-requisite or Co-requisite: ENG5001 or ENG5002	ON / OL		OL / ON
ENG5001 - Professional Skills in Engineering 1.00 Unit(s) No requisites	OL		
ENG6208 - Advanced Engineering Project Management 1.00 Unit(s) No requisites	OL / ON		

Schedule B: Specialisation Courses (4 Units)

Students must complete four of the courses listed in this schedule.

Students undertaking transitional studies from a non-engineering undergraduate degree may require a special enrolment pattern in lieu of some or all of schedule B courses. Please contact the School of Engineering Program Director (Post-graduate) via usq.support@usq.edu.au for alternative of up to 4 units of advanced undergraduate courses to complete pre-requisite engineering knowledge to allow future potential articulation into Master of Professional Engineering.

Course	Online			Springfield			Toowoomba		
	TR1	TR2	TR3	TR1	TR2	TR3	TR1	TR2	TR3
CIV4505 - Structural Analysis 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course MEC2402 AND (Course MAT1102 OR Course ENM1600) Other: Pre-requisite: MEC2402 and (MAT1502 or ENM1600 or MAT1102) or Students must be enrolled in one of the following Programs: GCEN or METC or				ON			ON / OL		

Course	Online			Springfield			Toowoomba		
	TR1	TR2	TR3	TR1	TR2	TR3	TR1	TR2	TR3
MEPR or GCNS or GDNS or MENS or GEPR									
CIV4508 - Structural Design II 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course CIV3505 OR Course CIV4505) OR (Course CIV3506 OR Course CIV4506) Other: Pre-requisite: (CIV3505 or CIV4505) and (CIV3506 or CIV4506) or Students must be enrolled in one of the following Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS	OL				ON			OL / ON	
PWI5703 - Advanced Road and Pavement Engineering 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course CIV3703 Other: Or Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS or PGCN or GCAE or MEPR									OL
ENG5105 - Advanced Numerical Modelling 1.00 Unit(s) Other: Pre-requisite: Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS or MEPR								OL / ON	ON / OL
ENG6104 - Asset Management in an Engineering Environment 1.00 Unit(s) No requisites							ON / OL		
ENV4203 - Public Health Engineering 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course ENV2103 Other: Pre-requisite: ENV1101 or ENV2103 or Students must be enrolled in one of the following Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS					ON			ON / OL	
ENV5104 - Advanced Hydraulic Systems 1.00 Unit(s) Other: Pre-requisite: Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS or MEPR								ON / OL	

Electrical and Electronic Engineering (8 Units)

Schedule A: Core Courses (4 Units)

Students must complete all four courses listed in this schedule.

Course	Springfield			Toowoomba		
	TR1	TR2	TR3	TR1	TR2	TR3
EBE5003 - Research Training 1.00 Unit(s) Course Co-requisite Course Pre-requisites: Course Co-requisite: (Course ENG5001 OR Course ENG5002) Course Pre-requisites: (Course ENG5001 OR Course ENG5002) Other: Pre-requisite: Students must be enrolled in one of the following Programs: MENS or MSPT or GDNS or GCNS or GDST Pre-requisite or Co-requisite: ENG5001 or ENG5002				ON / OL		OL / ON
ELE4606 - Communication Systems 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course ELE2504 OR Course ELE2601) Other: Pre-requisite: (ELE2504 and ELE2601) or Students must be enrolled in one of the following Programs: GCEN or METC or MEPR or MENS or GCNS or GDNS		ON			ON / OL	
ENG5001 - Professional Skills in Engineering 1.00 Unit(s) No requisites				OL		
ENG6208 - Advanced Engineering Project Management 1.00 Unit(s) No requisites				OL / ON		

Schedule B: Specialisation Courses (4 Units)

Students must complete four of the courses listed in this schedule.

Students undertaking transitional studies from a non-engineering undergraduate degree may require a special enrolment pattern in lieu of some or all of schedule B courses. Please contact the School of Engineering Program Director (Post-graduate) via usq.support@usq.edu.au for alternative of up to 4 units of advanced undergraduate courses to complete pre-requisite engineering knowledge to allow future potential articulation into Master of Professional Engineering.

Course	Springfield			Toowoomba		
	TR1	TR2	TR3	TR1	TR2	TR3
ELE4605 - Fields and Waves 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites:	ON			OL / ON		

Course	Springfield			Toowoomba		
	TR1	TR2	TR3	TR1	TR2	TR3
(Course ELE2103 AND Course ELE2601) AND Course ENM1600 Other: Pre-requisite: {(MAT1502 or ENM1600) and ELE2103 and ELE2601} or Students must be enrolled in one of the following Programs: MEPR or MENS or GCNS or GDNS						
ELE4607 - Advanced Digital Communications 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course ELE1301 Other: Pre-requisite: ELE1301 or Students must be enrolled in one of the following Programs: GCEN or METC or GCNS or GDNS or MENS or MEPR				OL		
ELE4807 - Power Systems Analysis 1.00 Unit(s) No requisites				OL / ON		
ELE5001 - Industrial Communications Protocols 1.00 Unit(s) No requisites				OL / ON		
ELE5605 - Electro-Magnetic Modelling 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course ELE4605 Other: Students must be enrolled in one of the following Programs: MENS or MEPR or GCNS or GDNS						ON / OL
ENG5105 - Advanced Numerical Modelling 1.00 Unit(s) Other: Pre-requisite: Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS or MEPR					OL / ON	ON / OL
ENG6104 - Asset Management in an Engineering Environment 1.00 Unit(s) No requisites				ON / OL		

Engineering Management and Enterprise (8 Units)

Schedule A: Core Courses (4 Units)

Students must complete all four courses listed in this schedule.

Course	Toowoomba	
	TR1	TR3
EBE5003 - Research Training	ON / OL	OL / ON

	Toowoomba	
Course	TR1	TR3
1.00 Unit(s) Course Co-requisite Course Pre-requisites: Course Co-requisite: (Course ENG5001 OR Course ENG5002) Course Pre-requisites: (Course ENG5001 OR Course ENG5002) Other: Pre-requisite: Students must be enrolled in one of the following Programs: MENS or MSPT or GDNS or GCNS or GDST Pre-requisite or Co-requisite: ENG5001 or ENG5002		
ENG5001 - Professional Skills in Engineering 1.00 Unit(s) No requisites	OL	
ENG6104 - Asset Management in an Engineering Environment 1.00 Unit(s) No requisites	ON / OL	
ENG6207 - Innovation Management and New Product Development 1.00 Unit(s) No requisites		ON / OL

Schedule B: Specialisation Courses (4 Units)

Students must complete one Schedule B technical engineering course from another GDNS technical specialisation (i.e. discipline major) plus three of the courses listed in this schedule.

Students undertaking transitional studies from a non-engineering undergraduate degree may require a special enrolment pattern in lieu of some or all of schedule B courses. Please contact the School of Engineering Program Director (Post-graduate) via usq.support@usq.edu.au for alternative of up to 4 units of advanced undergraduate courses to complete pre-requisite engineering knowledge to allow future potential articulation into Master of Professional Engineering.

Choose 1 Schedule B technical engineering course from another GDNS technical specialisation (ie. discipline major). (1 Units)

Choose 3 courses from the following: (3 Units)

	Toowoomba
Course	TR2
ENG6205 - Project Management Practice 1.00 Unit(s) No requisites	OL / ON
FIN8201 - Corporate Finance 1.00 Unit(s) No requisites	

	Toowoomba
Course	TR2
Not Offered	
GIS2407 - Web Based Geographic Information System 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course GIS1402 Other: Pre-requisite: GIS1402 or Students must be enrolled in one of the following Programs: GCST or GDST or MSST or MSPT or GCNS or GDNS or MENS	ON / OL
MGT8049 - Building an Engaged Workforce 1.00 Unit(s) No requisites **Not Offered**	

Environmental Engineering (8 Units)

Schedule A: Core Courses (4 Units)

Students must complete all four courses listed in this schedule.

	Toowoomba		
Course	TR1	TR2	TR3
EBE5003 - Research Training 1.00 Unit(s) Course Co-requisite Course Pre-requisites: Course Co-requisite: (Course ENG5001 OR Course ENG5002) Course Pre-requisites: (Course ENG5001 OR Course ENG5002) Other: Pre-requisite: Students must be enrolled in one of the following Programs: MENS or MSPT or GDNS or GCNS or GDST Pre-requisite or Co-requisite: ENG5001 or ENG5002	ON / OL		OL / ON
ENG5001 - Professional Skills in Engineering 1.00 Unit(s) No requisites	OL		
ENG6205 - Project Management Practice 1.00 Unit(s) No requisites		OL / ON	
ENV5104 - Advanced Hydraulic Systems 1.00 Unit(s) Other: Pre-requisite: Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS or MEPR		ON / OL	

Schedule B: Specialisation Courses (4 Units)

Students must complete four of the courses listed in this schedule.

Students undertaking transitional studies from a non-engineering undergraduate degree may require a special enrolment pattern in lieu of some or all of schedule B courses. Please contact the School of Engineering Program Director (Post-graduate) via usq.support@usq.edu.au for alternative of up to 4 units of advanced undergraduate courses to complete pre-requisite engineering knowledge to allow future potential articulation into Master of Professional Engineering.

Course	Toowoomba		
	TR1	TR2	TR3
AGR4305 - Agricultural Soil Mechanics 1.00 Unit(s) No requisites	ON / OL		
CLI8204 - Global Environmental Systems 1.00 Unit(s) No requisites			
ENG5105 - Advanced Numerical Modelling 1.00 Unit(s) Other: Pre-requisite: Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS or MEPR		OL / ON	ON / OL
ENV4106 - Irrigation Science 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course AGR3304 Other: Pre-requisite: AGR3304 or Students must be enrolled in one of the following Programs: GCEN or GCSC or GDSI or METC or MEPR or GCNS or GDNS or MENS or MSCN Recommended pre-requisite: ENG1002 and ENV2103 and ENM1600		ON / OL	
MEC5100 - Computational Fluid Dynamics 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course MEC3107 OR Course MEC4108 OR Course MEC3102 OR Course MEC5107 OR Course ENV3104 OR Course ENV5104) Other: Pre-requisite: MEC3107 or MEC3102 or MEC4108 or MEC5107 or ENV3104 or ENV5104 or Students must be enrolled in the following Program: MEPR	OL		
REN8101 - Environment, Society and Sustainability 1.00 Unit(s) No requisites			
STA6200 - Statistics for Quantitative Researchers 1.00 Unit(s)	OL / ON	OL	ON / OL

	Toowoomba		
Course	TR1	TR2	TR3
Other: Enrolment is not permitted in STA6200 if STA8170 has been previously completed.			

Mechanical Engineering (4 Units)

Schedule A: Core Courses (4 Units)

Students must complete all four courses listed in this schedule.

	Toowoomba	
Course	TR1	TR3
EBE5003 - Research Training 1.00 Unit(s) Course Co-requisite Course Pre-requisites: Course Co-requisite: (Course ENG5001 OR Course ENG5002) Course Pre-requisites: (Course ENG5001 OR Course ENG5002) Other: Pre-requisite: Students must be enrolled in one of the following Programs: MENS or MSPT or GDNS or GCNS or GDST Pre-requisite or Co-requisite: ENG5001 or ENG5002	ON / OL	OL / ON
ENG5001 - Professional Skills in Engineering 1.00 Unit(s) No requisites	OL	
ENG6208 - Advanced Engineering Project Management 1.00 Unit(s) No requisites	OL / ON	
MEC5203 - Fibre Reinforced Composites 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course MEC1201 AND Course MEC2402) AND (Course ENM2600 OR Course MAT2100) Other: Students must be enrolled in one of the following Programs: GCNS or GDNS or MEPR or MENS		ON / OL

Schedule B: Specialisation Courses (4 Units)

Students must complete four of the courses listed in this schedule.

Students undertaking transitional studies from a non-engineering undergraduate degree may require a special enrolment pattern in lieu of some or all of schedule B courses. Please contact the School of Engineering Program Director (Post-graduate) via usq.support@usq.edu.au for alternative of up to 4

units of advanced undergraduate courses to complete pre-requisite engineering knowledge to allow future potential articulation into Master of Professional Engineering.

Course	Toowoomba		
	TR1	TR2	TR3
ENG5105 - Advanced Numerical Modelling 1.00 Unit(s) Other: Pre-requisite: Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS or MEPR		OL / ON	ON / OL
ENG6104 - Asset Management in an Engineering Environment 1.00 Unit(s) No requisites	ON / OL		
MEC4104 - Renewable Energy Technology 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course MEC2106 OR Course MEC3107 OR Course MEC4108 OR Course MEC5107) Other: Students must be enrolled in one of the following Programs: GCEN or GCNS or GDNS or METC or MENS or MEPR		OL / ON	
MEC4403 - Advanced Dynamics 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course MEC2401 AND Course ENM2600) Other: Pre-requisite: (MEC2401 and (MAT2500 or ENM2600)) or Students must be enrolled in one of the following Programs: MENS or MEPR or GCNS or GDNS or GEPR		ON / OL	
MEC5100 - Computational Fluid Dynamics 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course MEC3107 OR Course MEC4108 OR Course MEC3102 OR Course MEC5107 OR Course ENV3104 OR Course ENV5104) Other: Pre-requisite: MEC3107 or MEC3102 or MEC4108 or MEC5107 or ENV3104 or ENV5104 or Students must be enrolled in the following Program: MEPR	OL		
MEC5107 - Thermofluids 1.00 Unit(s) No requisites		ON / OL	

Power Engineering (8 Units)

Schedule A: Core Courses (4 Units)

Students must complete all four courses listed in this schedule.

Course	Springfield			Toowoomba		
	TR1	TR2	TR3	TR1	TR2	TR3
EBE5003 - Research Training 1.00 Unit(s) Course Co-requisite Course Pre-requisites: Course Co-requisite: (Course ENG5001 OR Course ENG5002) Course Pre-requisites: (Course ENG5001 OR Course ENG5002) Other: Pre-requisite: Students must be enrolled in one of the following Programs: MENS or MSPT or GDNS or GCNS or GDST Pre-requisite or Co-requisite: ENG5001 or ENG5002				ON / OL		OL / ON
ELE4805 - Power Electronics Principles and Applications 1.00 Unit(s) Other: Students must be enrolled in one of the following Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS		ON			OL / ON	
ENG5001 - Professional Skills in Engineering 1.00 Unit(s) No requisites				OL		
ENG6205 - Project Management Practice 1.00 Unit(s) No requisites					OL / ON	

Schedule B: Specialisation Courses (4 Units)

Students must complete four of the courses listed in this schedule.

Students undertaking transitional studies from a non-engineering undergraduate degree may require a special enrolment pattern in lieu of some or all of schedule B courses. Please contact the School of Engineering Program Director (Post-graduate) via usq.support@usq.edu.au for alternative of up to 4 units of advanced undergraduate courses to complete pre-requisite engineering knowledge to allow future potential articulation into Master of Professional Engineering.

Course	Springfield			Toowoomba		
	TR1	TR2	TR3	TR1	TR2	TR3
ELE4307 - Real Time Systems 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course ELE1301 Other: Pre-requisite: ELE1301 or Students must be enrolled in one of the following Programs: GCNS or GDNS or GEPR or MENS or MEPR		ON			OL / ON	
ELE4506 - Industrial Process Automation 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites:					OL	

	Springfield			Toowoomba		
Course	TR1	TR2	TR3	TR1	TR2	TR3
(Course ELE3105 AND Course MEC2501) AND (Course ELE2101 OR Course ELE2103)						
ELE4708 - Electricity Supply Systems and Operations 1.00 Unit(s) Other: Pre-requisite: Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS or MEPR **Not Offered**						
ELE4807 - Power Systems Analysis 1.00 Unit(s) No requisites				OL / ON		
ELE6804 - Advances in Power Engineering 1.00 Unit(s) Other: It is recommended that students have successfully completed ELE4807 Power Systems Analysis. **Not Offered**						
ENG5105 - Advanced Numerical Modelling 1.00 Unit(s) Other: Pre-requisite: Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS or MEPR					OL / ON	ON / OL
MEC4104 - Renewable Energy Technology 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course MEC2106 OR Course MEC3107 OR Course MEC4108 OR Course MEC5107) Other: Students must be enrolled in one of the following Programs: GCEN or GCNS or GDNS or METC or MENS or MEPR					OL / ON	

Structural Engineering (8 Units)

Schedule A: Core Courses (4 Units)

Students must complete all four courses listed in this schedule.

	Toowoomba	
Course	TR1	TR3
EBE5003 - Research Training 1.00 Unit(s) Course Co-requisite Course Pre-requisites: Course Co-requisite: (Course ENG5001 OR Course ENG5002) Course Pre-requisites:	ON / OL	OL / ON

	Toowoomba	
Course	TR1	TR3
(Course ENG5001 OR Course ENG5002) Other: Pre-requisite: Students must be enrolled in one of the following Programs: MENS or MSPT or GDNS or GCNS or GDST Pre-requisite or Co-requisite: ENG5001 or ENG5002		
ENG5001 - Professional Skills in Engineering 1.00 Unit(s) No requisites	OL	
ENG6104 - Asset Management in an Engineering Environment 1.00 Unit(s) No requisites	ON / OL	

Schedule B: Specialisation Courses (4 Units)

Students must complete four of the courses listed in this schedule.

Students undertaking transitional studies from a non-engineering undergraduate degree may require a special enrolment pattern in lieu of some or all of schedule B courses. Please contact the School of Engineering Program Director (Post-graduate) via usq.support@usq.edu.au for alternative of up to 4 units of advanced undergraduate courses to complete pre-requisite engineering knowledge to allow future potential articulation into Master of Professional Engineering.

Course	Online			Springfield			Toowoomba		
	TR1	TR2	TR3	TR1	TR2	TR3	TR1	TR2	TR3
CIV4505 - Structural Analysis 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course MEC2402 AND (Course MAT1102 OR Course ENM1600) Other: Pre-requisite: MEC2402 and (MAT1502 or ENM1600 or MAT1102) or Students must be enrolled in one of the following Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS or GEPR				ON			ON / OL		
CIV4506 - Concrete Structures 1.00 Unit(s) Course Co-requisite Course Pre-requisites: Course Co-requisite: (Course CIV3505 OR Course CIV4505) Course Pre-requisites: Course CIV2503 AND (Course CIV3505 OR Course CIV4505) Other: Pre-requisite: CIV2503 and (CIV3505 or CIV4505) or Students must be enrolled in one of the following Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS				ON			OL / ON		

Course	Online			Springfield			Toowoomba		
	TR1	TR2	TR3	TR1	TR2	TR3	TR1	TR2	TR3
CIV4508 - Structural Design II 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course CIV3505 OR Course CIV4505) OR (Course CIV3506 OR Course CIV4506) Other: Pre-requisite: (CIV3505 or CIV4505) and (CIV3506 or CIV4506) or Students must be enrolled in one of the following Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS	OL				ON			OL / ON	
CIV5403 - Advanced Geotechnical Engineering 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course CIV2403 Other: Pre-requisite: CIV2401 or CIV2403 or Students must be enrolled in one of the following Programs: GCEN or METC or MEPR or GCNS or GDNS or MENS								OL / ON	
CIV6802 - Advanced Prestressed Concrete 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course CIV4506 **Not Offered**									
CIV6803 - Advanced Mechanics and Technology of Fibre Composites 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course CIV4506 AND Course MEC3203) Other: Pre-requisite: CIV3506 or MEC3203 or Students must be enrolled in one of the following Programs: PGCN or MEPR or GCNS or GDNS or MENS **Not Offered**									
ENG5105 - Advanced Numerical Modelling 1.00 Unit(s) Other: Pre-requisite: Students must be enrolled in one of the following Programs: GCNS or GDNS or MENS or MEPR								OL / ON	ON / OL

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