

## Master of Engineering Practice (MEPR) - MEngPrac

	Distance education*
<b>Semester intake:</b>	Semester 1 (February) Semester 2 (July) Semester 3 (November)
<b>Fees:</b>	Commonwealth supported place Domestic full fee paying place
<b>Standard duration:</b>	6 semesters part-time by distance education
<b>Program articulation:</b>	From: <a href="#">Bachelor of Engineering Technology</a>

### Footnotes

\* This program is not available to international students.

### Contact us

Future Australian and New Zealand students	Current students
<a href="#">Ask a question</a> Freecall (within Australia): 1800 269 500 Phone (from outside Australia): +61 7 4631 5315 Email: <a href="mailto:studyeng@usq.edu.au">studyeng@usq.edu.au</a>	<a href="#">Ask a question</a> Freecall (within Australia): 1800 007 252 Phone (from outside Australia): +61 7 4631 2285 Email <a href="mailto:usq.support@usq.edu.au">usq.support@usq.edu.au</a>

### Program focus

This 12 unit program enables experienced Engineering Technologists to acquire and demonstrate, academic, personal, professional, and technical knowledge, skills and understanding required to commence practice as a graduate Professional Engineer.

### Professional accreditation

The program is provisionally accredited by Engineers Australia and graduates are eligible for Graduate membership at the Professional Engineer level.

### Program aims

To enable experienced Engineering Technologists to demonstrate, or acquire and demonstrate, their attainment of the academic, personal, professional, and technical knowledge, skills and understanding required to commence practice as a graduate Professional Engineer in Australia or overseas within appropriate social, cultural, industrial and environmental contexts.

### Program objectives

The objectives of this program are:

- to enable Engineering Technologists to demonstrate, or acquire and demonstrate, that they possess the specified generic attributes and capabilities
- to enable Engineering Technologists to demonstrate, or acquire and demonstrate, in-depth technical competence in one of the following fields: Civil Engineering; Electrical and Electronic Engineering; Environmental Engineering, Mechanical Engineering; Power Systems Engineering, or Structural Engineering
- to enable Engineering Technologists from diverse, and non-traditional, backgrounds and locations to enrol in the program and to provide them with opportunities to acquire the skills necessary to complete the program in the normal time

- to enable students to be empowered as learners through the provision of a wide range of teaching and learning styles in their program
- to ensure that all students have equality of opportunity in acquiring the specified generic attributes and technical competence
- to ensure that graduates are eligible for graduate membership of Engineers Australia.

## Admission requirements

To be eligible for admission to the program, candidates:

- must possess an appropriate three-year Bachelor of Engineering Technology degree awarded by an Australian university, or an equivalent qualification awarded by an Australian or overseas institution, or be a Technologist Member of Engineers Australia
- must be able to demonstrate that they have at least five years of relevant experience in the Engineering industry. Candidates are required to provide a Curriculum Vitae (CV) to demonstrate their industry experience
- must be an Australian citizen or permanent resident of Australia, or a citizen of New Zealand or the holder of a 457 visa with a duration of at least three years. Note: This program is not available to international students.

The standing of degrees awarded by an overseas institution will be determined by reference to the Sydney Accord, of which Engineers Australia (EA) is a signatory, and Australia Education International (AEI) which is a federal government agency.

Prospective students are encouraged to talk to the Program Coordinator before completing an application form.

## How to apply

### Domestic students

[Application for postgraduate programs](#) may be made directly to USQ.

## Program fees

### Commonwealth supported place

A Commonwealth supported place is where the Australian Government makes a contribution towards the cost of your higher education and you as a student pay a [student contribution amount](#), which varies depending on the courses undertaken. You are able to calculate the fees for a particular course via the [Course Fee Finder](#). Commonwealth Supported students may be eligible to defer their fees through a Government loan called [HECS-HELP](#).

### Domestic full fee paying place

Domestic full fee paying places are funded entirely through the full fees paid by the student. Full fees vary depending on the courses that are taken. You are able to calculate the fees for a particular course via the [Course Fee Finder](#).

Permanent Humanitarian Visa holders, Permanent Resident visa holders and New Zealand citizens who reside outside Australia pay full tuition fees.

Domestic full fee paying students may be eligible to defer their fees through a Government loan called [FEE-HELP](#).

## Program structure

The Master of Engineering Practice (MEPR) program is a 12-unit program made up of the following three components:

Schedule A: Five core courses (seven units)

- [ENG8300 Self-Assessment Portfolio](#)

- [ENG8311 Workplace Portfolio Part 1](#) (2 units)
- [ENG8312 Workplace Portfolio Part 2](#) (2 units)
- [MAT1502 Engineering Mathematics 2](#)
- [ENG3103 Engineering Problem Solving Computations](#)

### **ENG8300 Self-assessment Portfolio**

The course [ENG8300 Self-Assessment Portfolio](#) is the first course students undertake in the program and it is designed to enable them to firstly assess their existing attributes and capabilities and then to nominate the specific workplace experiences they will use to demonstrate their level of competency in the courses: [ENG8311 Workplace Portfolio Part 1](#) and [ENG8312 Workplace Portfolio Part 2](#). Students will also nominate the Academic courses they will undertake in the program to enable them to satisfy other attribute and capability requirements. It may also be necessary for them to identify some specific types of industrial experience they need to undertake to be able to satisfy any remaining requirements. The outcome of this self-assessment process will be a Pathway to Graduation Plan prepared by the student in consultation with the examiner of the course.

A second component of this course will require students to show that they can write a Career Episode Report that demonstrates their achievement of two of the specified attributes and capabilities. To do this successfully students will have to demonstrate they are able to accurately reflect on their experience and that they have the communication skills that are necessary to write such a report. The information in a Career Episode Report must be verified and endorsed by a professional engineer who is preferably a member of Engineers Australia. Achievement of this component of the course is critical because students will use Career Episode Reports to demonstrate Engineers Australia's Stage 2 and discipline specific competencies in the two Workplace Portfolio courses.

At the end of this course students will submit a portfolio containing their Curriculum Vitae, the Career Episode Reports and the Pathway to Graduation Plan. The Examiner of the course will assess the portfolio and either:

- (1) Approve the Pathway to Graduation Plan
- (2) Request modifications to the Plan before it is approved, or
- (3) Decide that the student does not have the required knowledge, experience, attributes or capabilities to be able to satisfactorily complete the program. In this case the student will be cancelled from this program and counselled on alternative ways of achieving their goals. Students in this category may still be awarded a passing grade in the course. If a student has passed this course, they will then be granted an exemption when they enrol in another [USQ Faculty of Engineering and Surveying program](#).

Once a Pathway to Graduation Plan has been approved a student may enrol in the remaining courses in the Plan. The Plan will, in due course, be used by the Faculty to assess the student's eligibility to graduate.

Prospective students should visit the Engineers Australia web site to gain an understanding of the processes which will be followed. In particular, they should view the Stage Two Competencies and the guidelines for achieving Chartered status.

### **The Workplace Portfolio courses**

The **two** core Workplace Portfolio courses are designed to enable students to develop a Workplace Portfolio that will enable them to obtain credit for their achievements during their employment as an Engineering Technologist. The courses are:

- [ENG8311 Workplace Portfolio Part 1](#) (2 units)
- [ENG8312 Workplace Portfolio Part 2](#) (2 units).

### **The Core Technical courses**

The **two** core Technical courses are designed to give students the enabling skills in mathematics, computing, and problem solving they will need to undertake the Technical courses in their program. The courses are:

- [MAT1502 Engineering Mathematics 2](#)
- [ENG3103 Engineering Problem Solving Computations](#)

Students who have completed one of the Technical courses, or an equivalent course, as part of an earlier completed program of study should apply for an exemption

### Schedule B: Five technical courses

During the preparation of their Pathway to Graduation Plan students must nominate how they are going to demonstrate achievement of the objectives of each of the **Technical Courses** defined for their major and listed in this Schedule. They may do this by studying a course or by demonstrating achievement of the objectives of the course in their Workplace Portfolio. A student may study a maximum of **five** of the **Technical Courses** listed in this Schedule.

### Schedule C: One Practice Course

## Program completion requirements

To be eligible to graduate students must complete, or have credited to the program, at least six units of USQ courses. The maximum duration of the program is 12 terms.

## Required time limits

Full-time students have a maximum of three years to complete this program. Part-time students have a maximum of four years to complete this program.

## Major studies objectives

The major study provides students with knowledge and skills in a specific discipline. The six major study areas in the Master of Engineering Practice are:

- Civil Engineering
- Electrical and Electronic Engineering
- Environmental Engineering
- Mechanical Engineering
- Power Systems Engineering
- Structural Engineering

## IT requirements

Students should refer to the section entitled [Access to Information Technology Facilities](#) in the General Faculty and Program Information section of this Handbook.

## Residential schools

Students enrolled in the external offer of a Practice Course **must attend** the residential school for that course. In some cases students enrolled in the on-campus mode may also be required to attend the residential school. Students should only enrol in a Practice Course when they are able to attend the residential school for that course. Practice courses **may not** be taken earlier than shown except with the permission of the Program Coordinator responsible for the program. In some cases students may enrol in two Practice courses in one term so they can complete the two residential schools in a two-week period. The actual dates for each residential school are shown in the [Residential School schedule](#) in this Handbook.

Safety boots are compulsory in engineering laboratories for several of the Practice courses and are strongly recommended for all other Practice courses.

## Exit points

Students who have completed four courses in the program may satisfy the requirements for the [Graduate Certificate in Engineering Technology](#) program and therefore exit the program with a Graduate Certificate in Engineering Technology.

Students who are unable to satisfactorily complete the program may apply to transfer to the [Bachelor of Engineering](#) program. They may also apply to have the courses completed in the Master of Engineering Practice program credited to their new program.

## Exemptions

Candidates for admission to the program are eligible to seek advanced standing in the program, in accordance with existing University regulations. The maximum number of exemptions permitted in this program will be six units of courses. Studies used as the basis for claims for advanced standing must normally have been completed within a period of five years prior to the date of application for advanced standing. Applications for advanced standing will be assessed during the course [ENG8300 Self-Assessment Portfolio](#).

## Enrolment

Students should note that some of the courses specify enrolment requirements (prerequisites). Students should therefore refer to the Course Specification section of the USQ Web to determine the enrolment requirements for the courses they intend enrolling in. Students should avoid enrolling in courses for which they do not have sufficient pre-requisite knowledge. Students will be expected to rectify any deficiencies in their pre-requisite knowledge by private study.

Students should contact Faculty Administration if they encounter problems while enrolling in courses with requisites.

## Civil Engineering Major recommended enrolment pattern

Major study: Civil Engineering (Major Study Code: 15209)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)			
	Year	Sem	Year	Sem	Year	Sem		
<b>Schedule A: Core Courses</b> Students must complete all of the courses in this schedule. Students must study <a href="#">ENG8300 Self-Assessment Portfolio</a> in their first semester of enrolment in the program.								
<a href="#">ENG8300 Self-Assessment Portfolio</a>				1,2,3				
<a href="#">ENG3103 Engineering Problem Solving Computations</a>				2			Pre-requisite: ( <a href="#">ENG2102</a> and <a href="#">MAT1502</a> ) or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">ENG8311 Workplace Portfolio Part 1</a>				1,3			Pre-requisite: <a href="#">ENG8300</a> 2 units	
<a href="#">ENG8312 Workplace Portfolio Part 2</a>				2,3			Pre-requisite: <a href="#">ENG8300</a> 2 units	
<a href="#">MAT1502 Engineering Mathematics 2</a>				1,2			Pre-requisite: Only Students enrolled in Program BENG must have done <a href="#">MAT1500</a> or <a href="#">MAT1100</a>	
<b>Schedule B: Technical Courses</b> Students must demonstrate achievement of the objectives of each of the courses in this schedule. They can do this by studying the course or by addressing the objectives in their Workplace Portfolio. <b>Students can study a maximum of five of the courses listed in this schedule #</b>								
<a href="#">CIV3403 Geotechnical Engineering</a>				2			Pre-requisite: CIV2401 or <a href="#">CIV2403</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	

Major study: Civil Engineering (Major Study Code: 15209)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)			
	Year	Sem	Year	Sem	Year	Sem		
<a href="#">CIV3505 Structural Analysis</a>				1			Pre-requisite: <a href="#">MEC2402</a> and <a href="#">MAT1502</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">CIV3506 Concrete Structures</a>				1			Pre-requisite: <a href="#">CIV2503</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">CIV3703 Transport Engineering</a>				2				
<a href="#">CIV4508 Structural Design II</a>				1			Pre-requisite: <a href="#">CIV3505</a> and <a href="#">CIV3506</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">ENV3104 Hydraulics II</a>				1			Pre-requisite: <a href="#">ENV1101</a> or <a href="#">ENV2103</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">ENV4203 Public Health Engineering</a>				2			Pre-requisite: <a href="#">ENV1101</a> or <a href="#">ENV2103</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<b>Schedule C: One Practice Course</b> Students must complete the practice course.								
<a href="#">CIV4908 Civil Design Practice</a>				2			Pre-requisite: <a href="#">CIV4508</a> or Students must be enrolled in one of the following Programs: MEPR or GDNS or MENS	

#### Footnotes

# The Head of Discipline may allow a student to study an alternative course from Schedule C if the student demonstrates prior knowledge of the listed course in their Self-Assessment Portfolio.

## Electrical and Electronic Engineering Major recommended enrolment pattern

Major study: Electrical and Electronic Engineering (Major Study Code: 15210)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)			
	Year	Sem	Year	Sem	Year	Sem		
<b>Schedule A: Core Courses</b> Students must complete all of the courses in this schedule. Students must study <a href="#">ENG8300 Self-Assessment Portfolio</a> in their first semester of enrolment in the program.								
<a href="#">ENG8300 Self-Assessment Portfolio</a>				1,2,3				
<a href="#">ENG3103 Engineering Problem Solving Computations</a>				2			Pre-requisite: ( <a href="#">ENG2102</a> and <a href="#">MAT1502</a> ) or Students must be enrolled in one of the following Programs: GCEN or	

Major study: Electrical and Electronic Engineering (Major Study Code: 15210)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)			
	Year	Sem	Year	Sem	Year	Sem		
							GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">ENG8311 Workplace Portfolio Part 1</a>				1,3			Pre-requisite: <a href="#">ENG8300</a>	2 units
<a href="#">ENG8312 Workplace Portfolio Part 2</a>				2,3			Pre-requisite: <a href="#">ENG8300</a>	2 units
<a href="#">MAT1502 Engineering Mathematics 2</a>				1,2			Pre-requisite: Only Students enrolled in Program BENG must have done <a href="#">MAT1500</a> or <a href="#">MAT1100</a>	

**Schedule B: Technical Courses** Students must demonstrate achievement of the objectives of each of the courses in this schedule. They can do this by studying the course or by addressing the objectives in their Workplace Portfolio. **Students can study a maximum of five of the courses listed in this schedule#**

<a href="#">ELE2103 Linear Systems and Control</a>				2				
<a href="#">ELE2303 Embedded Systems Design#</a>				1				
<a href="#">ELE2504 Electronic Design and Analysis</a>				2			Pre-requisite: <a href="#">ELE1502</a> or S students must be enrolled in the following Program: MEPR	
<a href="#">ELE3105 Computer Controlled Systems</a>				1			Pre-requisite: <a href="#">ELE2103</a> or S students must be enrolled in one of the following Programs: GCNS or GCEN or GDNS or MEPR or MENS or METC	
<a href="#">ELE3107 Signal Processing</a>				2				
<a href="#">ELE3305 Computer Systems and Communications Protocols</a>				1				
<a href="#">ELE3506 Electronic Measurement#</a>				2			Pre-requisite: ( <a href="#">ELE1502</a> and ( <a href="#">ELE2101</a> or <a href="#">ELE2103</a> ) and ( <a href="#">ELE2503</a> or <a href="#">ELE2504</a> )) or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or MENS	

**Schedule C: One Practice Course** Students must complete the practice course.

<a href="#">ELE3914 Electrical and Electronic Practice D</a>		1		2			Pre-requisite: <a href="#">ELE1801</a> and <a href="#">ELE1301</a> and <a href="#">ELE1502</a>	
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#### Footnotes

# The Head of Discipline may allow a student to study an alternative course from Schedule C if the student demonstrates prior knowledge of the listed course in their Self-Assessment Portfolio.

## Environmental Engineering Major recommended enrolment pattern

Major study: Environmental Engineering (Major Study Code: 15211)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)			
	Year	Sem	Year	Sem	Year	Sem		
<a href="#">ENG8300 Self-Assessment Portfolio</a>				1,2,3				

**Schedule A: Core Courses** Students must complete all of the courses in this schedule. Students must study [ENG8300 Self-Assessment Portfolio](#) in their first semester of enrolment in the program.

Major study: Environmental Engineering (Major Study Code: 15211)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)			
	Year	Sem	Year	Sem	Year	Sem		
<a href="#">ENG3103 Engineering Problem Solving Computations</a>				2			Pre-requisite: ( <a href="#">ENG2102</a> and <a href="#">MAT1502</a> ) or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">ENG8311 Workplace Portfolio Part 1</a>				1,3			Pre-requisite: <a href="#">ENG8300</a> 2 units	
<a href="#">ENG8312 Workplace Portfolio Part 2</a>				2,3			Pre-requisite: <a href="#">ENG8300</a> 2 units	
<a href="#">MAT1502 Engineering Mathematics 2</a>				1,2			Pre-requisite: Only Students enrolled in Program BENG must have done <a href="#">MAT1500</a> or <a href="#">MAT1100</a>	
<b>Schedule B: Technical Courses</b> Students must demonstrate achievement of the objectives of each of the courses in this schedule. They can do this by studying the course or by addressing the objectives in their Workplace Portfolio. <b>Students can study a maximum of five of the courses listed in this schedule#</b>								
<a href="#">ENV3104 Hydraulics II</a>				1			Pre-requisite: ENV1101 or <a href="#">ENV2103</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">ECO8012 Tools and Techniques for Sustainable Development</a>				2		2		
<a href="#">ENV4107 Water Resources Engineering</a>		2		2			Pre-requisite: ( <a href="#">ENV3104</a> and <a href="#">ENV3105</a> ) or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GCEN or GDNS or MENS	
<a href="#">ENV4203 Public Health Engineering</a>				2			Pre-requisite: ENV1101 or <a href="#">ENV2103</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">ENV4204 Environmental Technology</a>				1			Pre-requisite: <a href="#">MAT1100</a> or <a href="#">MAT1500</a> or Students must be enrolled in one of the following programs: GCEN or GDET or METC or MENS or GCNS or GDNS or MSST	
<a href="#">ENV5205 Solid and Liquid Waste Treatment</a>				1			Pre-requisite: <a href="#">ENV4203</a> or <a href="#">ENV4204</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">LAW2107 Environmental Law</a>				2				
<b>Schedule C: One Practice Course</b> Students must complete the practice course.								
<a href="#">ENV3904 Environmental Engineering Practice</a>				3			Pre-requisite: <a href="#">ENV4203</a> or Students must be enrolled in	

Major study: Environmental Engineering (Major Study Code: 15211)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)			
	Year	Sem	Year	Sem	Year	Sem		
							one of the following Programs: GDNS or MENS	

#### Footnotes

# The Head of Discipline may allow a student to study an alternative course from Schedule C if the student demonstrates prior knowledge of the listed course in their Self-Assessment Portfolio.

## Mechanical Engineering Major recommended enrolment pattern

Major study: Mechanical Engineering (Major Study Code: 15212)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)			
	Year	Sem	Year	Sem	Year	Sem		

**Schedule A: Core Courses** Students must complete all of the courses in this schedule. Students must study [ENG8300 Self-Assessment Portfolio](#) in their first semester of enrolment in the program.

<a href="#">ENG8300 Self-Assessment Portfolio</a>				1,2,3			
<a href="#">ENG3103 Engineering Problem Solving Computations</a>				2			Pre-requisite: ( <a href="#">ENG2102</a> and <a href="#">MAT1502</a> ) or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS
<a href="#">ENG8311 Workplace Portfolio Part 1</a>				1,3			Pre-requisite: <a href="#">ENG8300</a> 2 units
<a href="#">ENG8312 Workplace Portfolio Part 2</a>				2,3			Pre-requisite: <a href="#">ENG8300</a> 2 units
<a href="#">MAT1502 Engineering Mathematics 2</a>				1,2			Pre-requisite: Only Students enrolled in Program BENG must have done <a href="#">MAT1500</a> or <a href="#">MAT1100</a>

**Schedule B: Technical Courses** Students must demonstrate achievement of the objectives of each of the courses in this schedule. They can do this by studying the course or by addressing the objectives in their Workplace Portfolio. **Students can study a maximum of five of the courses listed in this schedule#**

<a href="#">MEC2401 Dynamics I</a>		2		2			Pre-requisite: ( <a href="#">MAT1502</a> and <a href="#">CIV1501</a> ) or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or MENS
<a href="#">MEC3102 Fluid Mechanics</a>				1			Pre-requisite: ( <a href="#">MAT2500</a> and <a href="#">MEC2101</a> ) or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS
<a href="#">MEC3203 Materials Technology</a>				1			Pre-requisite: <a href="#">MEC1201</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or GCNS or GDNS or MEPR or MENS
<a href="#">MEC3204 Production Engineering</a>				2			

Major study: Mechanical Engineering (Major Study Code: 15212)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)			
	Year	Sem	Year	Sem	Year	Sem		
<a href="#">MEC3302 Computational Mechanics in Design</a>				1			Pre-requisite: ( <a href="#">MEC2304</a> and <a href="#">MEC2401</a> and <a href="#">MEC2402</a> ) or Students must be enrolled in one of the following Program s: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">MEC3303 System Design</a>				2			Pre-requisite: <a href="#">MEC2301</a> or Students must be enrolled in one of the following Program s: GCEN or GDET or METC or GCNS or GDNS or MEPR or MENS	
<a href="#">MEC4103 Heat Transfer</a>				1			Pre-requisite: <a href="#">MEC3102</a> or Students must be enrolled in one of the following Program s: GCEN or GDET or METC or MEPR or MENS	
<b>Schedule C: One Practice Course</b> Students must complete the practice course.								
<a href="#">MEC3904 Mechanical Practice 4</a>		2		2				

#### Footnotes

# The Head of Discipline may allow a student to study an alternative course from Schedule C if the student demonstrates prior knowledge of the listed course in their Self-Assessment Portfolio.

## Power Systems Engineering Major recommended enrolment pattern

Major study: Power Systems Engineering (Major Study Code: 16025)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)			
	Year	Sem	Year	Sem	Year	Sem		
<b>Schedule A: Core Courses</b> Students must complete all of the courses in this schedule. Students must study <a href="#">ENG8300 Self-Assessment Portfolio</a> in their first semester of enrolment in the program.								
<a href="#">ENG8300 Self-Assessment Portfolio</a>				1,2,3				
<a href="#">ENG3103 Engineering Problem Solving Computations</a>				2			Pre-requisite: ( <a href="#">ENG2102</a> and <a href="#">MAT1502</a> ) or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">ENG8311 Workplace Portfolio Part 1</a>				1,3			Pre-requisite: <a href="#">ENG8300</a> 2 units	
<a href="#">ENG8312 Workplace Portfolio Part 2</a>				2,3			Pre-requisite: <a href="#">ENG8300</a> 2 units	
<a href="#">MAT1502 Engineering Mathematics 2</a>				1,2			Pre-requisite: Only Students enrolled in Program BENG must have done <a href="#">MAT1500</a> or <a href="#">MAT1100</a>	

Major study: Power Systems Engineering (Major Study Code: 16025)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)			
	Year	Sem	Year	Sem	Year	Sem		
<b>Schedule B: Technical Courses</b> Students must demonstrate achievement of the objectives of each of the courses in this schedule. They can do this by studying the course or by addressing the objectives in their Workplace Portfolio. <b>Students can study a maximum of five of the courses listed in this schedule#</b>								
<a href="#">ELE1801 Electrical Technology</a>				2			Pre-requisite: <a href="#">ENG1500</a> or <a href="#">MAT1500</a> or Students must be enrolled in the following Program: MEPR	
<a href="#">ELE2103 Linear Systems and Control</a>				2				
<a href="#">ELE2704 Electricity Supply Systems</a>		2		2				
<a href="#">ELE3105 Computer Controlled Systems</a>				1			Pre-requisite: <a href="#">ELE2103</a> or Students must be enrolled in one of the following Programs: GCNS or GCEN or GDNS or MEPR or MENS or METC	
<a href="#">ELE3803 Electrical Plant</a>				1			Pre-requisite: <a href="#">ELE1801</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">ELE3805 Power Electronics Principles and Applications</a>				2			Pre-requisite: ( <a href="#">ELE1502</a> and <a href="#">ELE1801</a> ) or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">ELE3807 Power Systems Analysis</a>				1				
<b>Schedule C: One Practice Course</b> Students must complete the practice course.								
<a href="#">ELE3914 Electrical and Electronic Practice D</a>		1		2			Pre-requisite: <a href="#">ELE1801</a> and <a href="#">ELE1301</a> and <a href="#">ELE1502</a>	

#### Footnotes

# The Head of Discipline may allow a student to study an alternative course from Schedule C if the student demonstrates prior knowledge of the listed course in their Self-Assessment Portfolio.

### Structural Engineering Major recommended enrolment pattern

Major study: Structural Engineering (Major Study Code: 15213)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)			
	Year	Sem	Year	Sem	Year	Sem		
<b>Schedule A: Core Courses</b> Students must complete all of the courses in this schedule. Students must study <a href="#">ENG8300 Self-Assessment Portfolio</a> in their first semester of enrolment in the program.								
<a href="#">ENG8300 Self-Assessment Portfolio</a>				1,2,3				
<a href="#">ENG3103 Engineering Problem Solving Computations</a>				2			Pre-requisite: ( <a href="#">ENG2102</a> and <a href="#">MAT1502</a> ) or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">ENG8311 Workplace Portfolio Part 1</a>				1,3			Pre-requisite: <a href="#">ENG8300</a> 2 units	

Major study: Structural Engineering (Major Study Code: 15213)								
Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)			
	Year	Sem	Year	Sem	Year	Sem		
<a href="#">ENG8312 Workplace Portfolio Part 2</a>				2,3			Pre-requisite: <a href="#">ENG8300</a>	2 units
<a href="#">MAT1502 Engineering Mathematics 2</a>				1,2			Pre-requisite: Only Students enrolled in Program BENG must have done <a href="#">MAT1500</a> or <a href="#">MAT1100</a>	
<p><b>Schedule B: Technical Courses</b> Students must demonstrate achievement of the objectives of each of the courses in this schedule. They can do this by studying the course or by addressing the objectives in their Workplace Portfolio.</p> <p><b>Students can study a maximum of five of the courses listed in this schedule.#</b></p>								
<a href="#">CIV3403 Geotechnical Engineering</a>				2			Pre-requisite: <a href="#">CIV2401</a> or <a href="#">CIV2403</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">CIV3505 Structural Analysis</a>				1			Pre-requisite: <a href="#">MEC2402</a> and <a href="#">MAT1502</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">CIV3506 Concrete Structures</a>				1			Pre-requisite: <a href="#">CIV2503</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">CIV4508 Structural Design II</a>				1			Pre-requisite: <a href="#">CIV3505</a> and <a href="#">CIV3506</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">ENV3104 Hydraulics II</a>				1			Pre-requisite: <a href="#">ENV1101</a> or <a href="#">ENV2103</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS	
<a href="#">MAT2500 Engineering Mathematics 3</a>				2			Pre-requisite: <a href="#">MAT1102</a> or <a href="#">MAT1502</a> or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MENS	
<a href="#">MEC2401 Dynamics I</a>				2			Pre-requisite: ( <a href="#">MAT1502</a> and <a href="#">CIV1501</a> ) or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or MENS	
<p><b>Schedule C: One Practice Course</b> Students must complete the practice course.</p>								
<a href="#">CIV4908 Civil Design Practice</a>				2			Pre-requisite: <a href="#">CIV4508</a> or Students must be enrolled in	

Consult the Handbook on the Web at <http://www.usq.edu.au/handbook/current> for any updates that may occur during the year.  
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Major study: Structural Engineering (Major Study Code: 15213)							
Course	Year of program and semester in which course is normally studied					Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (WEB)		
	Year	Sem	Year	Sem	Year		
						one of the following Program s: MEPR or GDNS or MENS	

**Footnotes**

# The Head of Discipline may allow a student to study an alternative course from Schedule C if the student demonstrates prior knowledge of the listed course in their Self-Assessment Portfolio.