# Master of Engineering Practice (MEPR) - MEngPrac

Programs at USQ regularly undergo a comprehensive re-accreditation process to assure their relevance and quality. This program is currently being re-accredited and, as a consequence, is likely to undergo some changes. Full details will be made available when it is approved. If you have any questions, please contact us.

- critically analyse, reflect and synthesise information to interpret and transmit knowledge, skills and ideas to a variety of professional and non-professional audiences
- meet eligibility to apply for Stage 1 Professional Engineer membership of Engineers Australia and to benchmark competency attributes to Engineers Australia Stage 2 Experienced Professional Engineer.

#### **Australian Qualifications Framework**

The Australian Qualifications Framework (AQF) is a single national, comprehensive system of qualifications offered by higher education institutions (including universities), vocational education and training institutions and secondary schools. Each AQF qualification has a set of descriptors which define the type and complexity of knowledge, skills and application of knowledge and skills that a graduate who has been awarded that qualification has attained, and the typical volume of learning associated with that qualification type.

This program is at AQF Qualification Level 09. Graduates at this level will have specialised knowledge and skills for research, and/or professional practice and/or further learning.

The full set of levels criteria and qualification type descriptors can be found by visiting www.aqf.edu.au.

#### Admission requirements

To be eligible for admission, applicants must satisfy the following requirements:

- Completion of an Australian university three year Bachelor degree in the area of engineering science or engineering technology in the relevant cognate major or equivalent and a minimum of five years' professional work experience, or equivalent.<sup>#\*</sup>
- English Language Proficiency requirements for Category 3.
- 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 on-campus students.

Candidates may be admitted on the basis of professional registration as a Technologist Member of Engineers Australia. Candidates must be able to demonstrate that they have at least five years of relevant and significant engineering experience usually after graduation and are required to pro

Domestic full fee paying students may be eligible to defer their fees through a Government loan called

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 and Industry Project courses

The Workplace Portfolio course and the Industry Project course are designed to enable students to develop Portfolios that will enable them to obtain credit for their achievements during their employment as an Engineering Technologist. The courses are:

- ENG8311 Workplace Portfolio (2 units)
- ENG8308 Industry Project (2 units).

The core course ENM1600 Engineering Mathematics is designed to give students the enabling skills in mathematics and problem solving needed to undertake the Technical courses in their program.

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 T

# **Residential schools**

The attendance requirement of residential schools within this degree is indicated by the following letters: V = Voluntary; O = Optional; C = Compulsory; R = Recommended; HR = Highly Recommended; M = Mandatory. Find out more about residential schools, visit the Residential School Schedule to view specific dates for your degree, or visit the Policy and Procedure Library.

Students are required to undertake practical and professional activities relevant to their program through enrolment in a Practice course in the program. Practice courses are zero unit courses that may be undertaken in either on-campus or external mode and the final grades available are Pass (P)/Fail (F) only. They are a compulsory part of the program and do not attract a student contribution charge for Australian residents or a tuition fee for international students. The recommended enrolment schedule for the relevant Practice course is shown in the Recommended Enrolment Pattern for the program in this Handbook.

Students who enrol in on-campus mode for Practice courses normally undertake a series of mandatory weekly activities and/or attend a mandatory residential school.

External students must attend a single mandatory residential school during their program to obtain experience in practical and professional activities appropriate to the program. The mandatory residential school is included in the Practice course which is conducted in Semester 3 or during the recess period in Semester 2. The dates for each mandatory residential school Practice course are shown in the Residential School schedule in this Handbook and external students should ensure they are able to attend the mandatory residential school prior to enrolling in a Practice course. Personal protective equipment is compulsory in many engineering, construction and spatial science laboratories, students should confirm the requirements before attending residential schools for Practice courses.

**Civil Engineering** 

CIV4908 Civil Design Practice (mandatory)

Electrical and Electronic Engineering

ELE3914 Electrical and Electronic Practice D (mandatory)

Environmental Engineering

ENV3904 Environmental Engineering Practice (mandatory)

Mechanical Engineering

MEC3904 Mechanical Practice 4 (mandatory)

Power Systems Engineering

ELE3914 Electrical and Electronic Practice D (mandatory) or ELE3915 Electrical and Electronic Practice E (mandatory)

Public Works and Infrastructure

CIV4908 Civil Design Practice (mandatory)

Sturctural Engineering

CIV4908 Civil Design Practice (mandatory)

#### **Exit points**

Students may apply to transfer to the Bachelor of Engineering (Honours) program and may apply to have the courses completed in the Master of Engineering Practice program credited to their new program.

# Credit

Exemptions/credit will be assessed based on the USQ Credit and Exemption Procedure.

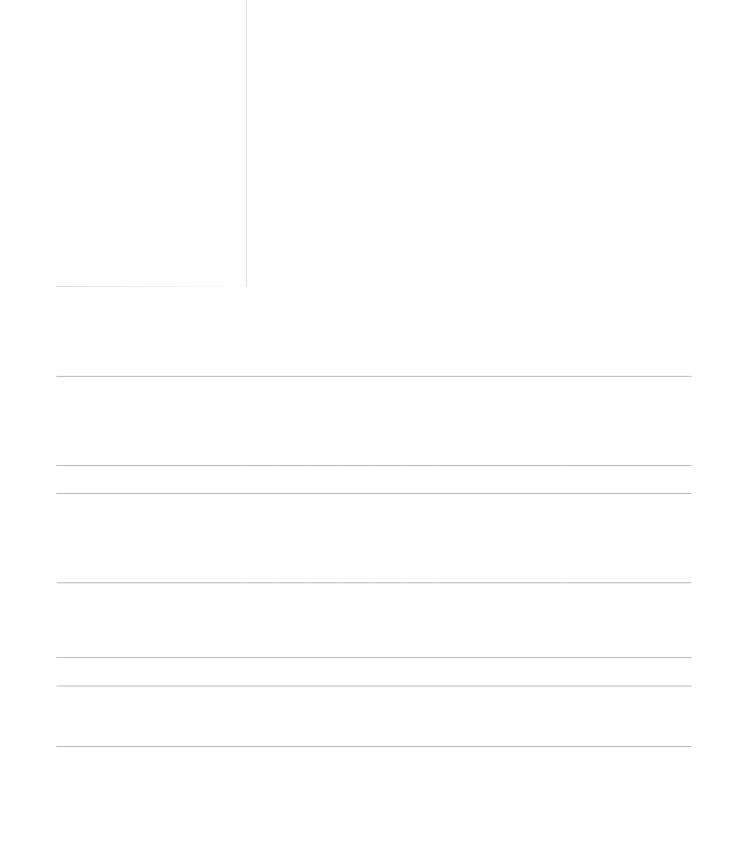
### Enrolment

Students should note that some of the courses specify enrolment requirements (prerequisites). Students should therefore refer to the Course Specification section 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 specialisation recommended enrolment pattern**

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the program mode of study they enrolled in.



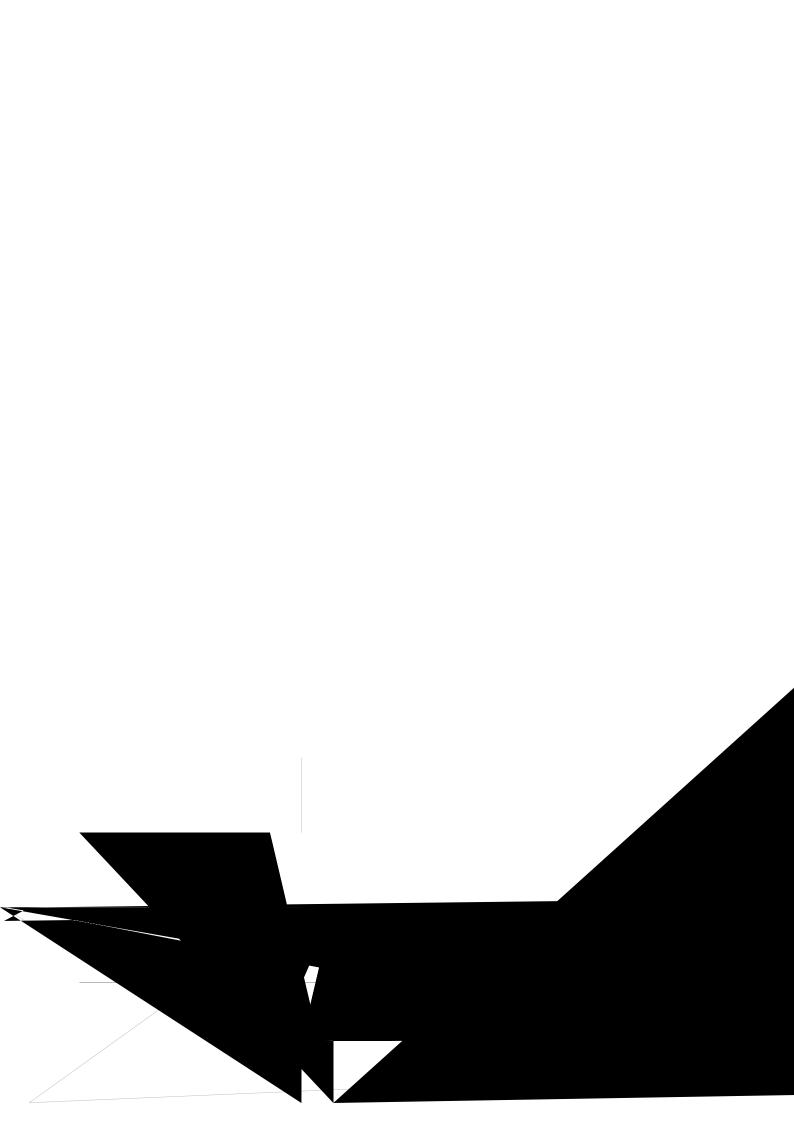
Course   View of program and semester winkin course is normally studied   Enrolment requirements   Comments     ENG8308 Industry Project   Ver   Sen   Year   Sen   Year   Sen     ENG8308 Industry Project   Ver   Sen   Year   Sen   Year   Sen     ENM1500 Engineering Mathematics   1,2   1,2   1,2   Image: Section of the following three courses:     ENG1500 Stachwoldy Management   1   1   1   Image: Section of the course study or addressing the course of each of the courses in this schedule, this can be achieved by course study or addressing the course objectives of each of the course in this schedule, this can be achieved by course study or addressing the course objectives within the W	Specialisatio							ialisation Study Code: 15210)	
Image: constraint of the constraint of the objectives of each of the courses in this schedule, this can be achieved by course study or addressing the course objectives within the	Course	Year of	ar of program and semester in which course is normally studied		i course	Enrolment requirements Comments			
ENG8308 Industry Project2,3Pre-requisite: ENG8300 or StdGthg ridGs(00%/Add0000031MAG0 g 35 00%/2 2031MAG0 g 35 00%/2 29.142 0S0 the following program: MENC or MAEN20.142 0S0ENM1600 Engineering Mathematics1,21,21,2Select one of the following three courses:1,21,21ENG8104 Asset Management in an Engineering Environment111ENG8208 Advanced Engineering Project111ENG8205 Technology Management 		(0	NC)	(E	XT)	(0	NL)		
Select one of the following three courses:   ENG8104 Asset Management in an 1   Engineering Environment 1   ENG8208 Advanced Engineering Project 1   Management 2   ENG8205 Technology Management 2   Practice 2   Schedule B: Technical Courses Students must demonstrate achievement of the objectives of each of the courses in this schedule, this can be achieved by course study or addressing the course objectives within the	ENG8308 Industry Project	Teal	Selli	Teai	Sem	Teai		Students Rost 00 State 1000031 MAG0 g 35 00 the following program: MENC	<b>2</b> 2 29.142 0S00
ENG8104 Asset Management in an 1 1   Engineering Environment 1 1   ENG8208 Advanced Engineering Project 1 1   Management 2 2   ENG8205 Technology Management 2 2   Practice 2 2   Schedule B: Technical Courses Students must demonstrate achievement of the objectives of each of the courses in this schedule, this can be achieved by course study or addressing the course objectives within the	ENM1600 Engineering Mathematics		1,2				1,2		
Engineering EnvironmentIIIENG8208 Advanced Engineering Project111Management222ENG8205 Technology Management22Practice22Schedule B: Technical Courses Students must demonstrate achievement of the objectives of each of the courses in this schedule, this can be achieved by course study or addressing the course objectives within the	Select one of the following three	e cou	rses:					· · ·	
Management Image: Constraint of the state of the s			1				1		
Practice   Schedule B: Technical Courses   Students must demonstrate achievement of the objectives of each of the courses in this schedule, this can be achieved by course study or addressing the course objectives within the	Management								
Schedule B: Technical Courses Students must demonstrate achievement of the objectives of each of the courses in this schedule, this can be achieved by course study or addressing the course objectives within the			2				2		
	courses in this schedule, this ca								
Image: Sector of the sector of th									
Image: Sector of the sector									
Image: Sector of the sector									
Image: Sector of the sector of th									
Image: Section of the section of th									
Image: Sector of the sector of th									
Image: Sector of the sector									
Image: Sector									
Image: Sector of the sector									
Image: state of the									

	-	
	-	

# Mechanical Engineering specialisation recommended enrolment pattern

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the program mode of study they enrolled in.

Specia	alisation	: Mecha	nical En	gineeri	ng (Spe	cialisati	on Study Code: 15212)		
Course		progran		mester	in which			Comments	
	On-ca	ampus	Exte	ernal	On				
	Year	NC) Sem	(⊑/ Year	KT) Sem	Year	NL) Sem			
Schedule A: Core Courses Stu	dents	must	comp	olete a	all of	the co	ourses in this schedule	. Students must study	
ENG8300 Self-Assessment Por	tfolio	Stud	11 T.	388 7	ſm( S	tud(r	G1 emeC82 lhf321.44	9 508.249 m321.549 5	505.36 593.48
		1		I					



# Public Works and Infrastructure specialisation recommended enrolment pattern

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the program mode of study they enrolled in.



	Specialisatior	1: Struct	ural En	gineerin	g (Spec	ialisatio	n Study Code: 15213)	
Course	Course Year of program and semester in which course is normally studied						Enrolment requirements	Comments
		On-campus External (ONC) (EXT)			Online (ONL)			
	Year Sem Year Sem Year Sem				Year	Sem		
Schedule C: One Practice	Course S	Studer	nts mi	ust co	mplet	e the	practice course.	
CIV4908 Civil Design Practice				2			Pre-requisite: CIV4508 or S tudents must be enrolled in one of the following Program s: MEPR or GDNS or MENS	