

Master of Engineering . (MENC) - MEng

	Distance education
Semester intake:	Semester 1 (February) Semester 2 (July) Semester 3 (November)
Fees:	Domestic full fee paying place International full fee paying place
Standard duration:	1.5 - 2 years by distance education
Program articulation:	From: Postgraduate Certificate in Engineering ; Bachelor of Engineering

Notes:

Some of the courses in the Engineering Management and Engineering Project Management majors may be offered on-campus at the Springfield Campus

Formerly Master of Engineering Management (MENM)

Contact us

Future Australian and New Zealand students	Future International students	Current students
Ask a question Freecall (within Australia): 1800 269 500 Phone (from outside Australia): +61 7 4631 5315 Email: studyeng@usq.edu.au	Ask a question Phone: +61 7 4631 5543 Email: international@usq.edu.au	Ask a question Freecall (within Australia): 1800 007 252 Phone (from outside Australia): +61 7 4631 2285 Email usq.support@usq.edu.au

Program focus

This eight unit program provides graduates with knowledge of selected basic concepts and skills associated with engineering in areas such as sustainable development, technical risk assessment, and engineering asset management. The program aims to produce graduates who are equipped with essential management knowledge and an appreciation of the latest technologies in addition to their initial specialisation. The skill set would therefore allow the graduate to manage more complex technological or engineering businesses.

Professional accreditation

The [Master of Engineering](#) . is not accredited by any professional bodies other than the University of Southern Queensland.

Program aims

The aim of the Master of Engineering program is to produce graduates that are equipped with essential management knowledge and an appreciation of the latest technologies in addition to their initial specialisation. The skill set would therefore allow the graduate to manage more complex technological or engineering businesses.

Program objectives

Students who successfully complete the Master of Engineering will be able to demonstrate their ability to:

- Critically evaluate knowledge from the professional journals and other information sources relevant to their field
- Apply asset management theory and practice to the management of engineering assets

- Evaluate the importance of technological innovation and risk in engineering businesses
- Apply the specialist knowledge and skills acquired in their major

Admission requirements

To be eligible for admission to the program, candidates must possess a four year Bachelor of Engineering degree awarded by an Australian university, or an equivalent qualification awarded by an overseas institution. Candidates who wish to study a technical major will be expected to have completed an appropriate major in their undergraduate program.

The standing of degrees awarded by an overseas institution will be determined by reference to the National Office of Overseas Skills Recognition (NOOSR).

International candidates for admission into this program must meet the University's English language proficiency requirements for postgraduate students. Please refer to Section 2.2.3 of the [Admissions Policy](#) .

How to apply

Domestic students

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

International students

This program is offered to international students. An international student is a person who is not an Australian or New Zealand citizen and not an Australian permanent resident. Please refer to [USQ International](#) for information about entry requirements, visa arrangements and how to apply.

Program fees

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](#).

International full fee paying place

International students pay full fees. Full fees vary depending on the courses that are taken and whether they are studied on-campus, via distance education/online. You are able to calculate the fees for a particular course via the [Course Fee Finder](#).

Program structure

The Master of Engineering comprises eight single unit Academic courses as follows:

- Two core courses:
 - [ENG8103 Management of Technological Risk](#)
 - [ENG8104 Asset Management in an Engineering Environment](#)
- A four course major; and
- Two Elective courses.

Major studies objectives

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

- Advanced Structural Engineering Design

- Engineering Management
- Engineering Project Management

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.

Articulation

Students who have completed the Postgraduate Certificate in Engineering are able to apply to articulate with full credit into the Master of Engineering degree if they study the same major in this program.

The standing of degrees awarded by an overseas institution will be determined by reference to the National Office of Overseas Skills Recognition (NOOSR).

Exemptions

Exemptions may be granted for relevant prior studies but will not exceed more than four units. Students who have completed the Postgraduate Certificate in Engineering program will receive full credit if they study the same major in this program.

Advanced Structural Engineering Design Major recommended enrolment pattern

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (WEB)		
	Year	Sem	Year	Sem	Year	Sem	
Schedule A: Core Courses							
Students must complete the two courses in this schedule:							
ENG8103 Management of Technological Risk					2		
ENG8104 Asset Management in an Engineering Environment					1		
Schedule B: Major Courses							
Students must complete the four courses in this schedule:							
ENG8801 Code-Based Structural Design							1
ENG8803 Mechanics and Technology of Fibre Composites							1
ENG8804 Advanced Design Practice using Finite Element Analysis							2
ENG8805 Design of Offshore Wharves and Jetties							2
Schedule C Elective Courses							
Students must complete two courses from this schedule:							
ENG8011 Assessment of Future Specialist Technology					1		
ENG8206 Whole of Life Facilities Management					2		
ENG8802 Advanced Prestressed Concrete							2
ENG8806 *							1

Footnotes

* This course is only offered in alternate years, it is not offered in 2012

Notes:

With the prior approval of the Program Coordinator students may complete a postgraduate structural engineering course at another university as one of their Elective courses.

Engineering Management Major recommended enrolment pattern

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (WEB)		
	Year	Sem	Year	Sem	Year	Sem	
Schedule A: Core Courses							
Students must complete the two courses in this schedule:							
ENG8103 Management of Technological Risk				2			
ENG8104 Asset Management in an Engineering Environment				1			
Schedule B: Major Courses							
Students must complete the four courses in this schedule:							
ENG8101 Technological Impact and its Management				1			
ENG8102 Towards Sustainable Development#				2			
ENG8205 Technology Management Practice				2			
ENG8207 Technological Innovation and Development				2			
Schedule C Elective Courses							
Students must complete two courses from this schedule:							
ACC5502 Accounting and Financial Management				1,3			
ENG8011 Assessment of Future Specialist Technology				1			
ENG8111 Project Requirements Management		2		2		2	
ENG8204 Management of Environmental Technology**				2			
ENG8206 Whole of Life Facilities Management				2			
ENG8806 *						1	
FIN5003 Decision Support Tools				1,3		1,3	
MGT5000 Managing Organisational Behaviour				1,3		1,3	

Footnotes

This course is not available in 2012. Students should instead substitute [ECO8012](#)

** Not available in 2012

* This course is only offered in alternate years, it is not offered in 2012

Notes:

Some courses may be offered on-campus at Springfield.

Engineering Project Management Major recommended enrolment pattern

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (WEB)		
	Year	Sem	Year	Sem	Year	Sem	
Schedule A: Core Courses							
Students must complete the two courses in this schedule:							
ENG8103 Management of Technological Risk				2			
ENG8104 Asset Management in an Engineering Environment				1			
Schedule B: Major Courses							
Students must complete the four courses in this schedule:							
MGT8022 Project-Based Management*				1,3		1,3	
ENG8111 Project Requirements Management				2			
ENG8205 Technology Management Practice				2			
MGT8025 Project Scope, Time and Cost Management				1			
Schedule C Elective Courses							

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (WEB)		
	Year	Sem	Year	Sem	Year	Sem	
Students must complete two courses from this schedule:							
ENG8101 Technological Impact and its Management				1			
ENG8102 Towards Sustainable Development#				2			
ENG8204 Management of Environmental Technology*				2			
ENG8206 Whole of Life Facilities Management				2			
ENG8207 Technological Innovation and Development				2			
MGT8003 Supply Chain Management				1			
MGT8021 Project Sustainability Management				1		1	

Footnotes

* It is strongly recommended that students enrol in [MGT8022](#) prior to, or at the same time as, enrolling in subsequent project management courses.

This course is not available in 2012. Students should instead substitute [ECO8012](#)

Notes:

Some courses may be offered on-campus at Springfield.