Master of Advanced Engineering (MAEN) - MAdvEng

	Online
Start:	Semester 1 (February) Semester 2 (July)
Fees:	Domestic full fee paying place International full fee paying place
Standard duration:	1.5 - 2 years part-time

Contact us

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 four year Bachelor degree in the area of engineering in a relevant cognate specialisation (major), or equivalent.
- English Language Proficiency requirements for Category 3.

All students are required to satisfy the applicable English language requirements.

If students do not meet the English language requirements they may apply to study a University-approved English language program. On successful completion of the English language program, students may be admitted to an award program.

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. Students are able to calculate the fees for a particular course via the Course Fee Finder.

Domestic full fee paying students may be eligible to defer their fees through a Government loan called FEE-HELP provided they meet the residency and citizenship requirements.

Australian citizens, Permanent Humanitarian Visa holders, Permanent Resident visa holders and New Zealand citizens who will be resident outside Australia for the duration of their program pay full tuition fees and are not eligible for 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. Students are able to calculate the fees for a particular course via the Course Fee Finder.

Program structure

The Master of Advanced Engineering consists of 8 units of study comprising of 4 core units and a 4 unit specialisation.

Students must undertake:

- Two courses from Schedule A (core courses);
- Four courses from Schedule B (related to the specialisation); and
- An Industry Project course in Schedule C (2 units).

Specialisation

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

- Structural Engineering Design
- Engineering and Project Management

IT requirements

Access to an up-to-date computer is necessary. On-campus students can access appropriately equipped laboratories, but should consider acquisition of their own computer. External students should be able to access

a computer with the following minimum standards as advised by the University. All students should have access to email and the Internet via a computer running the latest versions of Internet web browsers. The University has a wireless network for on-campus students' computers. In order to take advantage of this facility and further enhance their on-campus learning environment, students should consider purchasing a notebook/laptop computer with wireless connectivity. Specialist software is required for some courses.

Articulation

Students who have completed the Graduate Certificate of Advanced Engineering (Advanced Structural Engineering Design, Engineering Management and Engineering Project Management specialisations) are able to apply to articulate into the Master of Advanced Engineering degree, if they satisfy admission requirements.

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

Exit points

Students who have completed four courses in the program may satisfy the requirements to be awarded the Graduate Certificate of Engineering Science and apply to exit the Master of Advanced Engineering program with that award.

Credit

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

Structural Engineering Design 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	Recommended enrolment year and semester of study						Enforced prerequisites
	Year 1 (UG 1)		Year 2 (UG 2)		Year 3 (UG 3)		
	Sem	Sem	Sem	Sem	Sem	Sem	
Schedule A: Core Courses Students must complete the two courses in this schedule:							
ENG8001 Engineering Research Methods **		1/2			1		
ENG8002 Advanced Engineering Project Management					1		
Schedule B: Specialisation Courses Students must complete the four courses in this schedule:							
CIV8801 Concrete Structures Design					1		
CIV8802 Advanced Computational Methods for Analysis					1		Pre-requisite: CIV8... or (CIV... and Pre-requisite: ... or ... or ... or ... or ... or ... or ... or ... or ... or ...)
CIV8803 Advanced Steel and Timber Design Systems					2		
CIV8804 Advanced Geotechnical Engineering					2		
Schedule C Capstone Project Students must complete this course:							
ENG8411 Industry Project					2		Pre-requisite: ENG8... and ENG8... or (ENG8001 and Pre-requisite: ... Students should have ...)

Footnotes

** ENG8001 Engineering Research Methods may be used as an exit course in the GCAE Graduate Certificate of Advanced Engineering program.

]   Offered odd years only
\#   2 units

Engineering and Project Management 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.

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	JVRc	DV^	JVRc	DV^	JVRc	DV^	
Schedule A: Core Courses Students must complete the two courses in this schedule:							
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6?8)"!%2ddVe>R_RXV^V_eZ_R_6_XZ_VVcZ_X 6_gZ‵_^V_e						"	
Schedule B: Specialisation Courses Students must complete four courses in this schedule:							
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6?8)"!" EVTY_`]XZTR]:^aRTeR_U/Zed >R_RXV^V_e						"	
6?8)#!) 2UgR_TVU 6_XZ_VVcZ_X Ac[VeZ> R_RXV^V_e						"	
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>8E)!##Ac[Ve+3RdVU >R_RXV^V_e						#L$	
Schedule C Capstone Project Students must complete an Industry Project from this schedule:							
6?8)$!):_Ufd/aj Ac[VT						#	A‵Vd/dbf ZdV/+6?8)$!! R_U6?8)$"" /`c (6?8)!!" R_UDfbU_V_ed^fdeSVV_c]N]U Z_eVW[hZ_Xac‵XcR^ +>26?/

Footnotes

[ENG8001 Engineering Research Methods](#) may be used as an exit course'used ases