Master of Engineering . (MENC) - MEng

This program will accept no new admissions from S2, 2013. The information relating to this program is applicable to currently enrolled students. Students who are interested in this study area should contact the Faculty.

<table>
<thead>
<tr>
<th>Distance education</th>
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</thead>
</table>
| **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**

<table>
<thead>
<tr>
<th>Future Australian and New Zealand students</th>
<th>Future International students</th>
<th>Current students</th>
</tr>
</thead>
</table>
| 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.

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. 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
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 such as Internet Explorer or Firefox. 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. A notebook/laptop may be required for some courses.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Year of program and semester in which course is normally studied</th>
<th>Enrolment requirements</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>On-campus (ONC)</td>
<td>External (EXT)</td>
</tr>
<tr>
<td></td>
<td>Year</td>
<td>Sem</td>
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</tbody>
</table>

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 Pre-requisite: CIV3506 or MEC3203 or Students must be enrolled in one of the following Programs: GCEN or GDET or METC or MEPR or GCNS or GDNS or MENS or MENC
- ENG8804 Advanced Design Practice using Finite Element Analysis 2
- ENG8802 Advanced Prestressed Concrete 2

Schedule C Elective Courses
Students must complete two courses from this schedule:

- **ENG8011 Assessment of Future Specialist Technology** (Year 1)
- **ENG8206 Whole of Life Facilities Management** (Year 2)
- **ENG8205 Technology Management Practice** (Year 2)

**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

<table>
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<tr>
<th>Course</th>
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<tr>
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<td>Year</td>
<td>Sem</td>
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<tr>
<td>Schedule A: Core Courses</td>
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<tr>
<td><strong>ENG8103 Management of Technological Risk</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>ENG8104 Asset Management in an Engineering Environment</strong></td>
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**Schedule B: Major Courses**
Students must complete the four courses in this schedule:

- **ENG8101 Technological Impact and its Management** (Year 1)
- **ENG8102 Towards Sustainable Development** (Year 2)
- **ENG8205 Technology Management Practice** (Year 2)
- **ENG8207 Technological Innovation and Development** (Year 2)

**Schedule C Elective Courses**
Students must complete two courses from this schedule:

- **ACC5502 Accounting and Financial Management** (Year 1,3)
- **ENG8011 Assessment of Future Specialist Technology** (Year 1)
- **ENG8111 Project Requirements Management** (Year 2, 2, 2)
- **ENG8204 Management of Environmental Technology** (Year 2)
- **ENG8206 Whole of Life Facilities Management** (Year 2)
- **FIN5003 Decision Support Tools** (Year 1,3, 1,3)
- **MGT5000 Managing Organisational Behaviour** (Year 1,3)

**Footnotes**

# This course is not available in 2013. Students should instead substitute ECO8012
** Not available in 2013

**Notes:**
Some courses may be offered on-campus at Springfield.
Students must complete the two courses in this schedule:

<table>
<thead>
<tr>
<th>Course</th>
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<th>Year</th>
<th>Sem</th>
<th>Year</th>
<th>Sem</th>
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<tbody>
<tr>
<td>ENGB8103 Management of Technological Risk</td>
<td>2</td>
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<tr>
<td>ENGB8104 Asset Management in an Engineering Environment</td>
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</table>

### Schedule B: Major Courses

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<tr>
<th>Course</th>
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<th>Sem</th>
<th>Year</th>
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</thead>
<tbody>
<tr>
<td>MGTB8022 Project-Based Management*</td>
<td>1,3</td>
<td></td>
<td>1,3</td>
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<tr>
<td>ENG8111 Project Requirements Management</td>
<td>2</td>
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<tr>
<td>ENG8205 Technology Management Practice</td>
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<tr>
<td>MGTB8025 Project Scope, Time and Cost Management</td>
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<th>Year</th>
<th>Sem</th>
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<tbody>
<tr>
<td>ENGB8101 Technological Impact and its Management</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>ENGB8102 Towards Sustainable Development#</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>ENGB8204 Management of Environmental Technology**</td>
<td>2</td>
<td></td>
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<tr>
<td>ENGB8206 Whole of Life Facilities Management</td>
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<tr>
<td>ENGB8207 Technological Innovation and Development</td>
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<tr>
<td>MGTB8003 Supply Chain Management</td>
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<tr>
<td>MGTB8021 Project Sustainability Management</td>
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### Footnotes

* It is strongly recommended that students enrol in MGT8025 prior to, or at the same time as, enrolling in subsequent project management courses.

# This course is not available in 2013. Students should instead substitute ECO8012

** Not available in 2013

### Notes:

Some courses may be offered on-campus at Springfield.