



# Master of Engineering Advanced Manufacturing Technology or Manufacturing Management

Program Information	Location	English	2009 Fees	Further Information
<p><b>Program code:</b> LMEN</p> <p><b>Program content:</b> 54 units</p> <p><b>Duration:</b> 1.5 years</p> <p><b>Program CRICOS code:</b> 048506M</p> <p><b>Intake:</b> Study Periods 2 and 5</p>	<p>Mawson Lakes campus</p> <p>School of Advanced Manufacturing and Mechanical Engineering</p> <p><a href="http://www.unisa.edu.au/ame">www.unisa.edu.au/ame</a></p>	<p><b>IELTS overall</b> 6.0 (minimum 6.0 in each band)</p> <p><b>TOEFL overall</b> 575 paper based 232 computer based 90 internet based</p> <p><b>CELUSA</b> Successful completion of an Academic English Program to the required standard</p>	<p><b>Total program fee:</b> A\$28,200 (for 54 units)</p> <p>(see Note 2)</p>	<p><b>Email:</b> <a href="mailto:International.office@unisa.edu.au">International.office@unisa.edu.au</a></p> <p><b>Web: Program</b> <a href="http://www.unisanet.unisa.edu.au/programs/?Year=2008">www.unisanet.unisa.edu.au/programs/?Year=2008</a> (insert Program Code LMEN)</p> <p><b>General</b> <a href="http://www.unisa.edu.au/international">www.unisa.edu.au/international</a></p>

These programs are internationally recognised and tailored specifically for future leadership in manufacturing. Courses address the challenging demands of the global manufacturing economy and contribute to shaping new directions in the manufacturing industry.

### Associated programs

A Graduate Diploma and Graduate Certificate in Advanced Manufacturing Technology or Manufacturing Management are also available.

### Entry requirements

Applicants will ideally hold a four year engineering degree. Alternatively, applicants with undergraduate degrees in an appropriate applied science discipline and appropriate work experience will be considered on a case by case basis. Applicants should have completed their undergraduate degree at a level equivalent to Australian honours.

### Professional accreditation and recognition

For information regarding accreditation of this program within Australia please contact Engineers Australia: [www.engineersaustralia.org.au](http://www.engineersaustralia.org.au)

### Industry

Adjacent to the University campus is Technology Park, a world class knowledge-based development for technology related businesses; integrated with an innovative new urban precinct, town centre, the University and recreation facilities. Adelaide boasts specialised manufacturing sectors in automotive and component manufacturing, plastics, foundry and toolmaking, precision engineering, medical equipment, electronics, defence technology, machinery and equipment, wine, and metals manufacturing. The automotive industry is the largest single manufacturing industry in South Australia with more than 13,000 people directly employed. In support of this industry and the growth plans of General Motors Holden, an industry park has been established near Mawson Lakes encompassing more than 90 hectares and becoming home to a number of manufacturing and automotive component manufacturing organisations. Some South Australian based manufacturing companies include

- Bridgestone
- Holden Ltd (subsidiary of General Motors)
- Tenneco Automotive

## Program content

You will be required to complete coursework comprising 54 units. Your study program may consist of eight, 4.5 unit courses and the Manufacturing Minor Thesis 1 and 2; or twelve, 4.5 unit courses (eight from your chosen stream). You will be referred to the Program Director to choose a particular program of study appropriate to your academic background and professional interests. *Engineering Research Methods* is a compulsory course for all students. Students not enrolling in *Manufacturing Minor Thesis 1 or 2* may choose four, 4.5 unit, courses by negotiation with the Program Director.

### Advanced Manufacturing Technology stream (36 units from the following list not including thesis)

Artificial Intelligence in Manufacturing Engineering	4.5 units	Operations Management Systems	4.5 units
Design for Six Sigma	4.5 units	Robotics and Automation	4.5 units
Machine Vision Systems and Engineering Control	4.5 units	Supply Chain Modelling and Simulation	4.5 units
Engineering Research Methods (COMPULSORY)	4.5 units	Manufacturing Minor Thesis 1	9.0 units
Intelligent Design and Manufacture	4.5 units	Manufacturing Minor Thesis 2	9.0 units
Logistics Engineering G	4.5 units		

### Manufacturing Management Stream (36 units from the following list not including thesis)

Economic Decisions in Engineering Management	4.5 units	Project Planning and Control G	4.5 units
Energy Management for Sustainability	4.5 units	Supply Chain Management G	4.5 units
Engineering Research Methods (COMPULSORY)	4.5 units	Total Quality Management	4.5 units
Manufacturing Systems and Strategies	4.5 units	Manufacturing Minor Thesis 1	9.0 units
Leadership of the Future in Manufacturing and Mgmt	4.5 units	Manufacturing Minor Thesis 2	9.0 units

## Engineers Australia membership

If you intend to seek membership in Australia's engineering profession, we strongly advise that you have your current educational qualifications assessed by Engineers Australia, our peak professional body. Such an assessment will advise you of likely entry to the profession in Australia on completion of your studies. Information about how to apply for a skills assessment can be found at [www.engineersaustralia.org.au](http://www.engineersaustralia.org.au)

## Recognition of prior learning

University of South Australia may grant course credit, exemption or studies-in-lieu on the basis of previous study or work experience. Credit will not normally be granted for more than one third of the total units of the program. For University of South Australia policy on credit please visit <http://www.unisa.edu.au/policies/policies/academic/A13.asp>

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## Contacting University of South Australia

### General Enquiry

International students can either telephone or email to obtain information about study opportunities at University of South Australia:

Telephone: +61 3 9627 4854

Email: [international.office@unisa.edu.au](mailto:international.office@unisa.edu.au)

### Program Enquiry

International students should contact UniSA International or visit the website [www.unisa.edu.au/international/default.asp](http://www.unisa.edu.au/international/default.asp) for information about application procedures and specific study opportunities.

UniSA International

Telephone: +61 8 8302 1114

Fax: +61 8 8302 0233

Email: [international.students@unisa.edu.au](mailto:international.students@unisa.edu.au)

### How to Apply

International students wishing to apply for a program can do so through Apply Online via the weblink below or via email directly to UniSA International.

Email: [international.applications@unisa.edu.au](mailto:international.applications@unisa.edu.au)

Web: [www.unisa.edu.au/international/apply/default.asp#step2](http://www.unisa.edu.au/international/apply/default.asp#step2)

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## Notes:

1. The information contained in this publication is indicative only and is designed as an aid to students contemplating enrolment at University of South Australia. While every effort is made to provide full and accurate information at the time of publication, the University does not give any warranties in relation to the accuracy and completeness of the contents. The University does not accept responsibility for any loss or damage occasioned by use of the information contained in this publication. The University also reserves the right to discontinue or vary arrangements, programs, courses (units), assessment requirements and admission requirements without prior notice. While the University will try to avoid or minimise any inconvenience, changes may also be made to programs, courses (units), assessment requirements and staff after enrolment. The University may also set limits on the number of students in a program or course (unit). Program and course (unit) information is also published in the University Handbooks, see [www.unisa.edu.au/prospective/Program/fees.asp](http://www.unisa.edu.au/prospective/Program/fees.asp)
2. All tuition fees are shown in Australian dollars and are for commencing students for the particular program. Please note that the fee can vary according to the annual program load and total duration. The total program fee must be considered as the cost of the program.
3. Prior to applying to University of South Australia, please refer to the following website for further information on studying in Australia including visa and government requirements, facilities and resources, campus lifestyle, accommodation, living costs, and support services: [www.unisa.edu.au/international/predeparture](http://www.unisa.edu.au/international/predeparture)
4. Depending on demand, not all elective courses in the schedule may be offered in any one year. Elective courses are offered subject to student demand and staff availability. Postgraduate courses offered within the University of South Australia or from other universities may be substituted for the elective course(s) with permission of the Program Director.
5. Students are required to complete a total of 54 units of study to be eligible for the degree. The 54 units of study may consist of either 8 x 4.5 unit courses and Manufacturing Minor Thesis 1 and Manufacturing Minor Thesis 2, or 10 x 4.5 unit courses and Cases in Manufacturing and Technology Management (MFET 5045) course. Variations to these options require approval of the program Director.
6. Students are required to complete 36 unit courses of study in their choice of stream (Advanced Manufacturing Technology or Manufacturing Management). Individual programs of study to satisfy the overall formal study requirements of 54 units may be constructed by choice of other courses with the approval of the Program Director.
7. Students undertaking Manufacturing Minor Thesis 1 & 2, or Cases in Manufacturing and Technology Management (MFET 5045), will normally enrol in these courses in their second year of study. Research topics will normally be identified earlier.