



University of
South Australia

Experience. The Difference.

Engineering and Technology Management Double Master (Various Specialisations)

+ Master of Engineering (various specialisations) and Master of Engineering (Technology Management)



Program information

Program Code: LMET
Program Level: Postgraduate
Program Content: 72 units
Home Campus: Mawson Lakes
Program Length: 2 years
Intake: Study Period 2 + 5
Part time or full time options available for domestic students.

Entry requirements

Applicants would normally hold a degree in engineering, science, management, information technology or an equivalent qualification. Applicants with relevant work experience who either hold a degree in a discipline such as business, marketing or international studies, will be assessed on a case by case basis.

Study options

This program is offered internally only.

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 also reserves the right to discontinue or vary arrangements, programs, courses (units), assessment requirements and admission requirements without prior notice.

Program overview

These programs provide you with an advanced understanding of the current practice and technology in engineering management as well as in a specialist technical area of engineering. Specialisation courses are available in the following areas:

- Engineering and Technology Management
- Advanced Manufacturing Technology
- Energy and Sustainable Systems
- Materials and Nanotechnology

Summary of Specialisations

Advanced Manufacturing Technology

The Advanced Manufacturing Technology specialisation covers essential topics, methodologies and manufacturing applications of product and process design, manufacture and delivery process in organisations towards achieving quality, timely delivery, minimum cost and flexible manufacturing. Topics covered include robotics and automation, manufacturing management, six sigma, machine vision systems, and intelligent design and manufacturing.

Energy and Sustainable Systems

The Energy and Sustainable Systems specialisation provides you with the opportunity to acquire comprehensive knowledge of a range of technology and design issues in sustainable energy systems, energy management, vehicle emissions control and strategy, and lifecycle analysis and costing for sustainability.

Engineering and Technology Management

The Engineering and Technology Management specialisation extends your skills and

knowledge in key area of technology management which is important for engineers working in a range of organisations. Courses covered include operations management, enterprise resource planning, technology innovation and principles of research and development, and manufacturing systems and strategies.

Materials and Nanotechnology

The interdisciplinary specialisation, Materials and Nanotechnology provides you with a knowledge of advanced topics in: materials characterisation, biomaterials, design for plastics and advanced composites, nanomaterials and fabrication, and nanocomposites. This unique program allows students from any engineering discipline to expand their technical expertise as well as develop expertise in areas outside of their current specialisation.

Careers and industry

The Double Master combinations will provide graduates with a valuable blend of engineering management skills as well as technical skills in a specialist engineering area. Potential career paths are varied and will depend on graduates' particular interests, but could include:

- Management Consultant
- Engineering Business Development Manager
- Business Unit Manager
- International Engineering Business Advisor
- Technical Leading Engineer

Global organisations such as BAE Systems, Optus Communications and SAAB Systems are located within Technology Park. These and a myriad of others in the Engineering sector including nearby Defence Science and Technology Organisation (DSTO) have strong links with UniSA.



Information for domestic students

Fees: This program is Commonwealth Supported. Fees for Commonwealth Supported Students are calculated at the course level.

How to apply

Applications to this program are online via SATAC's Gradstart portal

For further information about UniSA's Engineering programs please contact:
(08) 8302 2376 or 1300 UNINOW
Web: www.unisa.edu.au/future/
Email: study@unisa.edu.au

Information for international students

Fees: \$AU 22,750 per 1.0 EFTSL for students commencing in 2011.

Fees are calculated on a per Unit basis with 1.0 EFTSL = 36 Units. Fees for International students are determined one year in advance and are subject to variation.

English language requirements

(IELTS Academic): 6.5 overall with 6.0 in Reading and Writing subscores or corresponding results from an equivalent test such as TOEFL or Academic English language level delivered at CELUSA or a Grade of C in the Certificate of Proficiency in English (University of Cambridge ESOL Examination) or a Grade of C in the Certificate in Advanced English (University of Cambridge ESOL Examination) or Successful completion of at least two years of tertiary study at diploma level or above conducted and completed in English within the last five years in a country in which English is commonly used, as determined by the University. Where the study in English was more than five years ago, this requirement may be satisfied by subsequent and recent work experience of two or more years duration in a setting where English is the language of business subject to satisfactory evidence as determined by the University.

How to apply

Applications to this program are via UniSA's Apply Online portal.

For further information about UniSA's Engineering programs please contact:
+61 3 96274854
Freecall:
Australia: 1800 1818 58
China (Northern): 10 800 61 00 245
China (Southern): 10 800 261 0245
Indonesia: 001 803 61 269
Japan: 0053 161 0011
Taiwan: 00801 611 343
Web: www.unisa.edu.au/international/
Email: international.office@unisa.edu.au

For more information about being a student at UniSA please visit:
www.unisa.edu.au/international/

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Why UniSA?

UniSA represents a long tradition of strong links between its engineering education, training programs and the relevant research and industry practice. Industry has maintained long term involvement in supporting our engineering programs by providing valuable input to the process of designing and updating the engineering curriculum.

Postgraduate level courses are offered by academics who are active as researchers and engineering practitioners in their field and are able to offer the resulting expertise as part of their teaching. Our programs are also directly supported by the relevant UniSA research institutes.

Engineering and Technology Management Double Master (various specialisations)

CRICOS code: 071956D

Course List	Units	Rules	
Engineering and Technology Management			
Management of Advanced Manufacturing Technology	4.5	Students must complete 72 units of study. This can consist of either: a) 12 x 4.5 unit courses and Minor Thesis 1 (Eng) and Minor Thesis 2 (Eng) or b) 14 x 4.5 unit courses and Cases in Engineering Applications or c) 14 x 4.5 unit courses and Minor Thesis 1 (Eng)	
Technology Innovation and Principles of R&D Management	4.5		
Leadership of the Future in Manufacturing and Management	4.5		
Manufacturing Systems and Strategies	4.5		
Enterprise Resource Planning	4.5		
Operations Management Systems	4.5		
Supply Chain Management G	4.5		
Supply Chain Modelling and Simulation G	4.5		
Logistics Engineering G	4.5		
Advanced Manufacturing Technology Foundation Specialisation (SATIC Code: 4CM100)			
Artificial Intelligence in Manufacturing Engineering	4.5	Students must complete at least 4 foundation courses, 1 of which must be Engineering Research Methods (compulsory). Students must complete at least 4 x 4.5 unit specialist courses from any specialisation and at least 4 x 4.5 unit courses from the list of Engineering and Technology Management specialist electives	
Machine Vision Systems	4.5		
Intelligent Design and Manufacturing	4.5		
Robotics and Automation	4.5		
Design for Six Sigma	4.5		
Energy and Sustainable Systems Foundation Specialisation (SATIC Code: 4CM101)			
Energy and Society	4.5		
Energy Management for Sustainability	4.5		
Sustainable Energy System Design	4.5		
The Role of the Energy Manager	4.5	Applicants are referred to the Program Director to choose a particular program of study appropriate to their academic background and professional interests.	
Life Cycle Analysis and Cost for Sustainability G	4.5		
Vehicle Emission, Control and Strategy G	4.5		
Materials and Nanotechnology Specialisation (SATIC Code: 4CM102)			
Nanomaterials and Fabrication G	4.5		
Nanocomposites and Practice G	4.5		
Design in Plastics and Advanced Composites G	4.5		
Biomaterials Engineering	4.5		
Materials Characterisation G	4.5		
Foundation Courses			
Project Planning and Control G	4.5	Note: 1. Students undertaking Cases in Engineering Applications, Minor Thesis 1 (Eng), and/or Minor Thesis 2 (Eng) will normally enrol in these courses in their final study period. Research topics should be identified earlier. 2. Not all courses are available every year.	
Engineering Economic Analysis	4.5		
Total Quality Management	4.5		
Engineering Research Methods	4.5		
Core specialist Courses			
Minor Thesis 1 (Eng)	9		
Minor Thesis 2 (Eng)	9		
Cases in Engineering Applications (See Note 1)	9		