

**PLEASE READ ALL NOTATIONS BELOW PRIOR TO ENROLLING**

1. It is the responsibility of the student to ensure they meet the pre-requisite of a course before enrolling.
2. Once a class is full – select another class
3. Any problems with online enrolment first seek assistance from <http://www.unisa.edu.au/enrolonline/helpoptions.asp> (enrol chat + error message information)

PLAN YOUR TIMETABLE

Planning your timetable prior to enrolment should ensure a smooth enrolment process. There are certain components of each course that you must enrol in and these will be listed. As classes fill quickly you may not secure your first choice and will have to enrol into an alternative class.

1. Print out a copy of this program schedule,
2. Mark off courses you have successfully completed or have received credit for (as prescribed by your Program Director)
3. Ensure you meet the pre-requisites of the courses you want to enrol in
4. go to the **University homepage** (<http://www.unisa.edu.au>)
5. Select **Programs and Courses**
6. Enter the **Area + Catalogue number** of the course you require (this will take you to the course homepage)
7. Click the **Timetable** link (for the study period you require)

This will list the course components (Lecture, Tutorial, Practical, Workshops, Seminars etc) that you will need along with the relative class number. This page also shows the current enrolments into that class (information is updated every 24 hours).
8. Make a note of specific days/times classes are offered (preferable to print off these pages for easy reference)
9. Once you have planned your timetable you are able to enrol.

ENROLMENT ADVICE SESSIONS

The School offered Enrolment Advice Sessions (EAS) to assist you with your enrolment questions and problems in February each year. Please refer to the School web site (www.unisa.edu.au/ame) for session details.

BUGE COURSE SELECTION

A list of Broadening Undergraduate Elective (BUGE) courses approved by your Program Directors can be obtained by visiting the AME web site (<http://www.unisa.edu.au/ame/enroladvice/default.asp>). You can only select courses on this list (other BUGE course selection may not be credited against your program requirements)

IMPORTANT INFORMATION

DO NOT enrol in any course listed as EXTERNAL (all courses you must undertake are run on campus)

2008 Program Schedule Details

Program Code	LBMV	
Program Name	Bachelor of Engineering (Mechanical and Manufacturing Engineering), Bachelor of Sustainable Environments (Environmental Protection and Management)	
First point of contact	ame.enquiries@unisa.edu.au	
Program Director	Mr Ke Xing	8302 3406
Program Support	Ms Mielnik	8302 3020
School Office	Building J Reception Counter – Danielle Collins	8302 3011

Course	Area + Catalogue No.	Pre-requisites (you must have completed these courses)	Completed
YEAR 1 / Study Period 2			
Engineering Materials (replaces Engineering Materials N)	RENG 1005	NIL	
Sustainable Engineering Practice (replaces Mechanical Engineering Practice)	ENGG 1003	NIL	
Mathematical Methods for Engineers 1 (replaces Engineering mathematics 1)	MATH 1063	Mathematics 1, or Mathematical Studies at Year 12, or equivalent	
Computer Techniques (replaces Computer Graphics for Engineers)	COMP 1036	NIL	
YEAR 1 / Study Period 5			
Electrical and Energy Systems (replaces Intro to Electrical Engineering)	EEET 1025	Pre-requisite: NIL Assumed Knowledge: SACE Stage 2 Mathematical Studies 1 & 2 and Physics.	
Engineering Design and Innovation (replaces Engineering Innovation and Practice)	ENGG 1004	NIL	NOTE: Select Lecture number: 21617 then Student may only enroll into tutorial classes – 21773,23003, 21770
Mathematical Methods for Engineers 2 (replaces Engineering Mathematics 2MC or 2E)	MATH 1064	MATH 1063 Mathematical Methods for engineers 1 (or previous course MATH 1048)	
Mechanics and Physics (replaces Engineering Mechanics and Science for Engineers)	EEET 1024	SACE stage 2 physics is assumed knowledge	

New program structure from 2008 – students who commenced 2007 or prior please follow below

YEAR 2 / Study Period 2			
Computer Techniques (replaces Computer Graphics for Engineers)	COMP 1036	NIL	
Engineering Modelling	MATH 2009	Eng Maths 1 & 2MC	
Environment: A Human Perspective	ENVT 1013	Nil	
Earth Systems	EART 1010	Nil	
YEAR 2 / Study Period 5			
Soil Science	EART 1011	Nil	
Engineering Materials (replaces Engineering Materials N)	RENG 1005	NIL	
Mechanics and Physics (replaces Engineering Mechanics and Science for Engineers)	EEET 1024	SACE stage 2 physics is assumed knowledge	
Electrical and Energy Systems (replaces Intro to Electrical Engineering)	EEET 1025	Pre-requisite: NIL Assumed Knowledge: SACE Stage 2 Mathematical Studies 1 & 2 and Physics.	
YEAR 3 / Study Period 2			
Environmental Planning and Policy	ENVT 4026	Nil	
Ecology	BIOL 2023	Aust. Biota 1 & 2 or Biodiversity for the Environment and Sustainable Ecosystems	
Mechanics and Structures	CIVE 2005	Eng. Mechanics	
Manufacturing Processes	MFET 2001	Nil	
YEAR 3 / Study Period 5			
Mechanics of Machines	MENG 2008	Eng. Maths 2MC, Eng. Mechanics	
Fluid and Energy Engineering	MENG 2002	Nil	
Mechanical Design	MENG 2004	Mechanics and Structures, Engineering Materials N	
Environmental Conflict and Public	ENVT 3020	Nil	

YEAR 4 / Study Period 2			
Semester 3/ Coastal Environments (SP1)	BIOL 4001	Nil	
Managing Human Resources in recreation and sport	BUSS 3035		
Energy Conversion and Management	MENG 3005	Fluid and Energy Engineering	
Environmental Law	ENVT 3010	Nil	
YEAR 4 / Study Period 5			
Mechanical Vibrations and Control Systems	MENG 3004	Engineering Maths 2MC, Mechanics of Machines	
Environmental Management Systems	ENVT 3002	Two level 1 courses	
Environmental Elective 1	(see note 3)		
Engineering Elective 1	(see note 2)		
YEAR 5 / Study Period 2			
Project Management for Professionals	BUSS 3020	Nil	
Computer Aided Engineering	MENG 3003	Computer Graphics, Mechanics & Structures, Mechanical Design	
Engineering Elective 2	(see note 2)		
Engineering Elective 3	(see note 2)		
YEAR 5 / Study Period 5			
Industrial Experience (see note 1)	MENG 3007		
Engineering Elective 4	(see note 2)		
Design in Plastics and Composites N	MFET 4011	Computer Aided Engineering	
Mechanical & Manufacturing Project 1 or Honours Project	MENG 4008 MENG 4007		

Notes:

1. All students must complete a period of industrial experience in a relevant industry prior to graduation. This program requires a minimum of 12 weeks of industrial experience in a relevant industry, which would normally be obtained between the third and fourth years of the program. Assessment in the course Industrial Experience will remain incomplete until the student submits a written report and receives a pass.
2. Students may choose any 4 Mechanical and Manufacturing electives listed in the schedule below. Depending on demand, not all courses may be offered in any one year.

Study period offered	Course Name	Area Number	Catalogue No.	Units	Course Pre-requisite
Mechanical Engineering Electives					
SP5	Fluid Mechanics and Heat Transfer	MENG	4003	4.5	Fluid and Energy Engineering
SP2	Engineering Maintenance	MENG	4010	4.5	Nil
SP2	Mechanical Systems Design	MENG	3006	4.5	Mechanical Design
SP2	Sustainable Energy Systems Design	MENG	4003	4.5	Energy Conversion & Management, Fluid Mechanics & Heat Transfer
SP5	Total Quality Management	MFET	5022	4.5	Nil
Robotics and Manufacturing Electives					
SP2	Robotics and Manufacturing Automation	MFET	3007	4.5	Computer Graphics, Intro to Electrical Eng.
Refer to PSO	Robotics and Computer Integrated Manufacturing	MFET	4012	4.5	Computer Aided Eng., Robotics and Man. Auto.
SP5	Product Design and Innovation	MFET	4002	4.5	Nil
N/A	Supply Chain Management	MFET	3017	4.5	Nil
Automotive Engineering Electives					
N/A	Vehicle Automatic Control	MENG	4013	4.5	Nil
SP5	Developments in Vehicle Technology	MENG	4014	4.5	Fluid & Energy, Intro to Electrical Engineering
SP2	Vehicle Emission Control and Strategy	MENG	4012	4.5	Fluid & Energy, Energy Conversion & Management

3. Students may choose an Environmental elective listed in the schedule above.

Environmental Electives – Refer to note 3 below					
	Environmental Interpretation	ENVT	3016	4.5	Nil
	Introduction to Geographical Information Systems	GEOE	5001	4.5	Nil
	Planning and Design for Recreation and Sport	ENVT	2001	4.5	Nil
	Outdoor Recreation Resource Planning	ENVT	1012	4.5	Nil
	Vertebrate Biology 201	BIOL	2046	4.5	Nil

