

Mechanical Engineering Program for Whyalla with Introductory Courses

Note : assumes that Mathematical Methods for Engineering 2 will be taught over the summer break and that Project Planning and Control will also be taught over the summer break (part of the accelerated program).

Course Name	Catalogue Number	Program (Electrical, Mechanical, Metallurgy)	Study in Whyalla Program (3 year schedule for Associate Degree)
Introductory Courses			
Introduction to Engineering Mathematics 1	MATH 1060	Elec, Mech, Met	Yr 1 SP2
Introduction to Engineering Mathematics 2	MATH 1061	Elec, Mech, Met	Yr 1 Sp2
Introduction to Engineering Physics	PHYS 1018	Elec, Mech, Met	Yr 1 Sp2
Common First Year Courses			
Mathematical Methods for Engineers 1	MATH 1063	Elec, Mech, Met	Year 1, Sp5
Engineering Materials	RENG 1005	Elec, Mech, Met	Year 2, Sp2
Computer Techniques	COMP 1036	Elec, Mech, Met	Year 3, SP2
Sustainable Engineering Practice	ENGG 1003	Elec, Mech, Met	Year 2, SP2
Mathematical Methods for Engineers 2	MATH 1064	Elec, Mech, Met	Year 2, SP1
Electrical and Energy Systems	EEET 1025	Elec, Mech, Met	Year 1, SP5
Mechanics and Physics	EEET 1024	Elec, Mech, Met	Year 1, SP5
Engineering Design and Innovation	ENGG 1004	Elec, Mech, Met	Year 2, SP5
Second Year Courses			
Mechanics and Structures	CIVE 2005	Mech, Met	Year 3, SP2
Mechanical Engineering Practice N	MENG 2009	Mech, Met	Year 3, SP2
Mechanics of Machines	MENG 2008	Mech	Year 3, SP5
Mechanical Design Practice	MENG 2004	Mech, Met	Year 3, SP5
Fluid and Energy Engineering	MENG 2002	Mech, Met	Year 2, Sp5
Project Planning and Control	MFET 3008	Mech, Met	Year 2, SP7

Note : this is 17 courses : suggest including Mechanical Engineering Practice N because of pre-requisite requirements in third year for maximum flexibility. Students only need to complete 16 courses for the Associate degree.

Program pre-requisite structure for mechanical stream in Associate degree

Program Code: LBIF	Area + Cat No	Course prerequisite	This course is a prerequisite for
Introduction to Engineering Mathematics 1	MATH 1060	None	
Introduction to Engineering Mathematics 2	MATH 1061	MATH 1060 : can be done in Whyalla concurrently	MATH 1063
Introduction to Engineering Physics	PHYS 1018	None	EEET 1024
Mathematical Methods for Engineers 1	MATH 1063	Year 12 Mathematical Studies (or MATH 1061 : Introduction to Engineering Mathematics 2 as equivalent)	MATH 1064
Engineering Materials	RENG 1005	None	MENG 2004, MFET 4011
Computer Techniques	COMP 1036	None but advisable to study Introductory Maths 2 where possible	MFET 3009, MENG 3003
Sustainable Engineering Practice	ENGG 1003	None	None
Mathematical Methods for Engineers 2	MATH 1064	MATH 1063	MATH 2009, MENG 2008
Electrical and Energy Systems	EEET 1025	Year 12 Mathematical Studies, Year 12 Physics (or MATH 1061 : Introduction to Engineering Mathematics 2 and PHYS 1018 Introduction to Engineering Physics as equivalent)	None
Mechanics and Physics	EEET 1024	Year 12 Mathematical Studies Year 12 Physics (or MATH 1061 : Introduction to Engineering Mathematics 2 and PHYS 1018 Introduction to Engineering Physics as equivalent)	CIVE 2005, MENG 2008
Engineering Design and Innovation	ENGG 1004	None	None
Mechanics and Structures	CIVE 2005	EEET 1024	MENG 2008, MENG 2004, MENG 3003
Engineering Modelling	MATH 2009	MATH 1064	None
Manufacturing Practice	MFET 2001	None	None
Mechanical Engineering Practice N	MENG 2009	None	MENG 2008

Mechanics of Machines	MENG 2008	MATH 1064, EEET 1024, <i>MENG 2009</i>	None
Mechanical Design Practice	MENG 2004	RENG 1005, ,	MFET 3009, <u>MFET 4011</u>
Fluid and Energy Engineering	MENG 2002	None	MENG 3005, MENG 4004, MENG 4012
<u>Project Planning and Control</u>	<u>MFET 3008</u>	None	NONE