

Metallurgy program for Whyalla with Introductory Courses

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	Year 1 SP2
Introduction to Engineering mathematics 2	MATH 1061	Elec, Mech, Met	Year 1, SP2
Introduction to Engineering Physics	PHYS 1018	Elec, Mech, Met	Year 1, SP2
Introduction to Engineering Chemistry	CHEM 1015	Met	Year 1, SP5
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 2, 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 2, 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 Design Practice	MENG 2004	Mech, Met	Year 3, SP5
Fluid and Energy Engineering	MENG 2002	Mech, Met	Year 2, Sp5
Materials Chemistry	MENG 2012	Met	Year 3, SP2
Materials Characterisation	MENG 2011	Met	Year 3, SP5

Note : this makes 17 courses which is one more than necessary for the Associate Degree but additional course will count towards the degree and helps with future pre-requisites.

Pre-requisite structure

	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
Introduction to Engineering Chemistry	CHEM 1015	None	Not formally a prerequisite for RENG 1005 : Engineering Materials but useful background knowledge
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, <u>RENG 3019</u> , MENG 3010, <u>MENG 3011</u> , <u>RENG 3018</u>
Computer Techniques	COMP 1036	None but advisable to study Introductory Maths 2 where possible	
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	CIVE 2005, MENG 2008

		Engineering Physics as equivalent)	
Engineering Design and Innovation	ENGG 1004	None	None
Mechanics and Structures	CIVE 2005	EEET 1024	MENG 2008, MENG 2004,
Engineering Modelling	MATH 2009	MATH 1064	None
Materials Characterisation	MENG 2011	RENG 1005	<u>RENG 3019,</u> <u>MENG 3010,</u> <u>MENG 3011,</u> <u>RENG 3018</u>
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, ,	<u>MFET 4011,</u> <u>MENG 4026</u>
Fluid and Energy Engineering	MENG 2002	None	MENG 3005,
Materials Chemistry	MENG 2012	RENG 1005	<u>RENG 3019,</u> <u>MENG 3010,</u> <u>MENG 3011,</u> <u>RENG 3018</u>