

Electrical Engineering Program for Whyalla with Introductory Courses

Note : assumes Programming in Java 1, Principles of Computer Systems, Engineering Mathematics 4, Digital Devices and Structures and Professional Engineering Practice are taught in SP1/7 as a 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	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
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 3, 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 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			
Programming in Java 1	COMP 1011	Elec	Year 2, SP7
Electrical Circuit Theory	EEET 1003	Elec	Year 2, SP2
Engineering Mathematics 3E	MATH 2021	Elec	Year 3, SP2
Principles of Computer Systems	EEET 1007	Elec	Year 2, SP5
Electronic Devices and Circuits	EEET 2018	Elec	Year 3, SP5
Engineering Mathematics 4E	MATH 2022	Elec	Year 3, SP5

Note : this is a 17 course program due to the pre-requisite structure in the electrical degree. Students should do Engineering Mathematics 4E as an additional course because of prerequisite requirements in the third year of the mechanical degree but they only need to complete 16 courses for the Associate Degree.

Pre-requisite structure for electrical Engineering program with introductory courses

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 EEET 2018
Engineering Materials	RENG 1005	None	
Computer Techniques	COMP 1036	None but advisable to study Introductory Maths 2 before this course where possible	
Sustainable Engineering Practice	ENGG 1003	None	<u>EEET 3034</u>
Mathematical Methods for Engineers 2	MATH 1064	MATH 1063	PHYS 2002, MATH 2021, MATH 2022, <u>EEET 2017</u>
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)	<u>EEET 3032</u>
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)	PHYS 2002
Engineering Design and Innovation	ENGG 1004	None	<u>EEET 3034</u>

Year 2			
Period 2			
Programming in Java 1	COMP 1011	Year 12 Mathematical Studies (or MATH 1061 : Introduction to Engineering Mathematics 2 as equivalent)	COMP 1015
Electrical Circuit Theory	EEET 1003	Year 12 Mathematical Studies Year 12 Physics (or MATH 1061 : Introduction to Engineering Mathematics 2 and PHYS 1018 Introduction to Engineering Physics as equivalent)	<u>EEET 2018</u> <u>EEET 1015</u> <u>EEET 4057</u>
Engineering Mathematics 3E	MATH 2021	MATH 1064	
Principles of Computer Systems	EEET 1007	Year 12 Mathematical Studies (or MATH 1061 : Introduction to Engineering Mathematics 2 as equivalent)	<u>EEET 2022,</u> <u>EEET 1013</u>
Electronic Devices and Circuits	EEET 2018	MATH 1063 EEET 1003	<u>EEET 2017</u>
Engineering Mathematics 4E	MATH 2022	MATH 1064 Should be MATH 2021?	<u>EEET 1015</u> <u>EEET 3008</u> <u>EEET 4048</u>