

# Bachelor of Engineering (Honours) – Civil & Geotechnical Engineering (2342): Completion of pre-2021 program

## IMPORTANT Notes:

- The information contained in this document is intended as general advice only. Students must follow the program rules & requirements listed on the [Programs and Courses Website](#) relevant to the year they commence. This planner must be used in conjunction with your program duration course list and program rules.
- Students need to check future course offerings, prerequisites, incompatibilities and restrictions for all courses as these are subject to change.
- Students cannot take courses that are incompatible with courses already counted towards their program, and cannot count the same course twice.

You must complete for the BE(Hons)(Civil and Geotechnical Engineering Plan code: CIVGEW2342 ), 64 units comprising –

- (i) 58 to 60 units being all courses from [part A - compulsory](#), and
- (ii) 0 to 2 units from parts [B1](#) or [B2](#) - electives, and
- (iii) 4 units from electives

## PART A

Tick the courses you have completed and nominate the alternative course you plan to choose (if required). Discontinued courses are coloured red.

✓/✗ compl.	Pre-2021 Part A list	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
58 to 60 units, being all courses from Part A - compulsory							
	<b>ENGG1100</b> Engineering Design (2) and <b>ENGG1200</b> Engineering Modelling & Problem Solving (2) <b>(discontinued)</b> OR <b>ENGG1211</b> Engineering Design, Modelling & Problem Solving (4) <b>(discontinued)</b>	2 2 4	<b>2/20</b> <b>2/20</b>	<b>ENGG1100</b> Professional Engineering and * If you have not completed ENGG1200, please contact EAIT Student Admin for replacement	1,2	2	
	<b>MATH1051</b> Calculus & Linear Algebra I OR <b>MATH1071</b> Advanced Calculus & Linear Algebra I	2		<b>MATH1051</b> Calculus & Linear Algebra I OR <b>MATH1071</b> Advanced Calculus & Linear Algebra I	1,2	2	
	<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations OR <b>MATH1072</b> Advanced Multivariate Calculus & Ordinary Differential Equations	2		<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations OR <b>MATH1072</b> Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2	
	<b>ENGG1400</b> Engineering Mechanics: Statics & Dynamics <b>(discontinued)</b>	2	<b>2/20</b>	<b>ENGG1700</b> Statics & Materials	1,2	2	
	<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers	2		<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers	1	2	
	<b>CIVL2135</b> Environmental Issues and Sustainability in Engineering	2		<b>CIVL2135</b> Environmental Engineering: An Introduction for Civil Engineers	1	2	
	<b>CIVL2330</b> Structural Mechanics	2		<b>CIVL2330</b> Structural Mechanics	2	2	
	<b>CIVL2410</b> Sustainable Transport Engineering - Traffic Analysis <b>(discontinued)</b>	2	<b>1/21</b>	<b>CIVL2420</b> Fundamental of Transport Engineering	1	2	<b>2/22</b>
	<b>CIVL2530</b> Probability and Statistics in Engineering	2		<b>CIVL2530</b> Statistics and Data Analysis	1	2	
	<b>CIVL2131</b> Environmental Fluid Mechanics	2		<b>CIVL2131</b> Environmental Fluid Mechanics (moves to semester 1 from 2022)	2	2	
	<b>CIVL2210</b> Soil Mechanics	2		<b>CIVL2210</b> Fundamentals of Soil Mechanics	1	2	

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	<b>CIVL2340</b> Design of Steel Structures (discontinued)	2	2/22	<b>CIVL3380</b> Structural and Steel Design	1	2	1/23
	<b>CIVL2360</b> Design of Concrete Structures (discontinued)	2	2/22	<b>CIVL3360</b> Reinforced Concrete Design	2	2	2/23
	<b>CIVL3140</b> Hydraulics of Engineered and Natural Waterways (discontinued) and <b>CIVL3141</b> Hydrology and Hydrological Risk (discontinued)	2	1/21 and 2/21	<b>CIVL3155</b> Hydrology and free surface flows plus [ <b>CIVL6121</b> Environmental Hydraulics and Flood Management or <b>CIVL4145</b> Groundwater Modelling and Management	2 1 2	2 2	2/22 1/23 2/22
	<b>CIVL3210</b> Geotechnical Engineering	2		<b>CIVL3210</b> Geotechnical Engineering	2	2	
	<b>CIVL3340</b> Structural Analysis	2		<b>CIVL3340</b> Structural Analysis	2	2	
	<b>MINE3121</b> Mining Geomechanics (discontinued)	2	1/22	<b>METL3129</b> Applied Mining Geomechanics / <b>CIVL3220</b> Rock Mechanics	2	2	1/22, 1/23
	<b>CIVL3350</b> Integrated Structural Design	2		<b>CIVL3350</b> Integrated Structural Design	2	2	
	<b>CIVL3420</b> Sustainable Transport Engineering - Planning and Design (discontinued)	2	1/23	<b>CIVL3420</b> Sustainable Transport Engineering (discontinued)	1	2	
	<b>ERTH3250</b> Hydrogeology	2		<b>ERTH3250</b> Hydrogeology	2	2	
	<b>CIVL4270</b> Geotechnical Investigation & Testing	2		<b>CIVL4270</b> Geotechnical Investigations	1	2	
	<b>CIVL4514</b> Integrated Design	2		<b>CIVL4514</b> Design in the Built Environment (discontinued)	1	2	
	<b>MINE4120</b> Mine Geotechnical Engineering	2		<b>MINE4120</b> Mine Geotechnical Engineering	1	2	
	<b>CIVL4560</b> Project (discontinued) or <b>CIVL4580</b> Research Thesis (discontinued) ( <b>CIVL4583</b> from 2/21) or <b>CIVL4582</b> Research Thesis (discontinued) ( <b>CIVL4584</b> from 2/21)	2 4 4	2/22 2/22 2/22	<b>CIVL4600</b> Research Part A or <b>CIVL4605</b> Research Part B (discontinued)	1,2 1,2	2	1/23 1/23
	<b>ENGG4900</b> Professional Practice and the Business Environment (discontinued)	2	2/23	<b>ENGG4901</b> Professional Practice and the Business Environment A Or <b>ENGG4902</b> Professional Practice and the Business Environment B	1,2	2	1/24
	<b>CIVL4280</b> Advanced Rock Mechanics	2		<b>CIVL4280</b> Applied Rock Mechanics	2	2	
	<b>CIVL4516</b> Integrated Design for Environmental Management	2		<b>CIVL4516</b> Integrated Design for Environmental Management	2	2	

**PART B**

✓/x compl.	Part B0 - Preparatory Mathematics & Science Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	<b>CHEM1090</b> Introductory Chemistry	2		<b>CHEM1090</b> Introductory Chemistry	1	2	
	<b>MATH1050</b> Mathematical Foundations	2		<b>MATH1050</b> Mathematical Foundations	1,2	2	
	<b>PHYS1171</b> Physical Basis of Biological Systems	2		<b>PHYS1171</b> Physical Basis of Biological Systems	1,2	2	

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✓/X compl.	Part B1 - Introductory Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	<b>CHEM1100</b> Chemistry 1	2		<b>CHEM1100</b> Chemistry 1	1,2	2	
	<b>CSSE1001</b> Introduction to Software Engineering	2		<b>CSSE1001</b> Introduction to Software Engineering	1,2	2	
	<b>ENGG1300</b> Introduction to Electrical Systems	2		<b>ENGG1300</b> Introduction to Electrical Systems	1,2	2	
	<b>ENGG1500</b> Engineering Thermodynamics	2		<b>ENGG1500</b> Engineering Thermodynamics	1,2	2	
	<b>ENGG1600</b> Introduction to Research Practices - The Big Issues	2		<b>ENGG1600</b> Introduction to Research Practices - The Big Issues	2	2	
	<b>ENGG2000</b> Humanitarian Engineering	2		<b>ENGG2000</b> Humanitarian Engineering	2	2	
	<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers	2		<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers	1	2	
	<b>MATH2000</b> Calculus & Linear Algebra II (discontinued)	2	2/20	<b>MATH2001</b> Calculus & Linear Algebra II	1,2,S	2	
	<b>MATH2001</b> Advanced Calculus & Linear Algebra II	2		<b>MATH2001</b> Calculus & Linear Algebra II	1,2,S	2	
	<b>MINE2105</b> Introduction to Mining and Mineral Processing (discontinued)	2	1/21	<b>Any B1 Elective</b>		2	
	<b>PHYS1002</b> Electromagnetism and Modern Physics	2		<b>PHYS1002</b> Electromagnetism and Modern Physics (semester 2 only from 2022)	2	2	
	<b>REDE1300</b> Building Construction Management & Economics (discontinued)	2	1/20	<b>Any B1 Elective</b>		2	

✓/X compl.	Part B2 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	<b>CIVL3510</b> Project Management with Building Information Modelling (discontinued)	2	2/22	<b>CIVL3520</b> Project Management and Professional Practice	2	2	2/23
	<b>CIVL4230</b> Advanced Soil Mechanics	2		<b>CIVL4230</b> Advanced Soil Mechanics	2	2	
	<b>ERTH2004</b> Structural Geology	2		<b>ERTH2004</b> Structural Geology	2	2	
	<b>MINE4000</b> Mine Waste Management & Landform Design (discontinued)	2	1/22	<b>CIVL6220</b> Tailings Design	1	2	1/23

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