

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							
	ENGG1100 Engineering Design (2) and ENGG1200 Engineering Modelling & Problem Solving (2) (discontinued) OR ENGG1211 Engineering Design, Modelling & Problem Solving (4) (discontinued)	2 2 4	 2/20 2/20	ENGG1100 Professional Engineering and * If you have not completed ENGG1200, please contact EAIT Student Admin for replacement	1,2	2	
	MATH1051 Calculus & Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I	2		MATH1051 Calculus and Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I	1,2	2	
	MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	2		MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2	
	ENGG1400 Engineering Mechanics: Statics & Dynamics (discontinued)	2	2/20	ENGG1700 Statics and Materials	1,2	2	
	ERTH1501 Earth Processes & Geological Materials for Engineers	2		ERTH1501 Earth Processes & Geological Materials for Engineers	1	2	
	CIVL2135 Environmental Issues and Sustainability in Engineering	2		CIVL2135 Introduction to Environmental Engineering	1	2	
	CIVL2330 Structural Mechanics	2		CIVL2330 Structural Mechanics	2	2	
	CIVL2410 Sustainable Transport Engineering - Traffic Analysis (discontinued)	2	1/21	CIVL2420 Fundamental of Transport Engineering	1	2	
	CIVL2530 Probability and Statistics in Engineering	2		CIVL2530 Statistics and Data Analysis	1	2	
	CIVL2131 Environmental Fluid Mechanics	2		CIVL2131 Environmental Fluid Mechanics	2	2	

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	CIVL2210 Soil Mechanics	2		CIVL2210 Soil Mechanics	1	2	
	CIVL2340 Design of Steel Structures (discontinued)	2	2/22	CIVL3380 Structural Steel Design	1	2	
	CIVL2360 Design of Concrete Structures (discontinued)	2	2/21	CIVL3360 Reinforced Concrete Design	2	2	
	CIVL3140 Hydraulics of Engineered and Natural Waterways (discontinued) and CIVL3141 Hydrology and Hydrological Risk (discontinued)	2	1/21 2/21	CIVL3155 Hydrology and Free Surface Flows (See Note 1) plus [CIVL6121 Environmental Hydraulics and Flood Management OR [CIVL4145 Groundwater Modelling and Management	2 1 2	2 2 2	
	CIVL3210 Geotechnical Engineering	2		CIVL3210 Geotechnical Engineering	2	2	
	CIVL3340 Structural Analysis	2		CIVL3340 Structural Analysis	2	2	
	MINE3121 Mining Geomechanics (discontinued)	2	1/22	CIVL3220 Rock Mechanics	2	2	
	CIVL3350 Integrated Structural Design (discontinued)	2	2/22	CIVL3390 Integrated Structural Design	2	2	
	CIVL3420 Sustainable Transport Engineering - Planning and Design (discontinued)	2	1/23	CIVL3430 Sustainable Transport Engineering	1	2	1/24
	ERTH3250 Hydrogeology	2		ERTH3250 Groundwater Processes and Resources	2	2	
	CIVL4270 Geotechnical Investigation & Testing	2		CIVL4270 Geotechnical Investigations	1	2	
	CIVL4514 Integrated Design (discontinued)	1	1/23	CIVL4518 Integrated Design for the Built Environment	2	2	2/24
	MINE4120 Mine Geotechnical Engineering (discontinued)	2	1/23	MINE3129 Applied Mining Geomechanics	1	2	
	CIVL4560 Project (discontinued) OR CIVL4580 Research Thesis (discontinued) OR CIVL4583 Research Thesis (discontinued) OR CIVL4582 Research Thesis (discontinued) OR CIVL4584 Research Thesis (discontinued)	2 4 4 4 4	2/22 2/20 2/22 1/21 1/23	CIVL4600 Research Project OR CIVL4604 Research Thesis OR CIVL4606 Research Thesis	1,2 1 2	2 4 4	
	ENGG4900 Professional Practice and the Business Environment (discontinued)	2	2/23	ENGG4901 Professional Practice and the Business Environment A OR ENGG4902 Professional Practice and the Business Environment B	1 2	2 2	1/24 2/24
	CIVL4280 Advanced Rock Mechanics	2		CIVL4280 Applied Rock Mechanics	2	2	
	CIVL4516 Integrated Design for Environmental Management	2		CIVL4516 Integrated Design for the Natural Environment	2	2	

Notes:

1. If a continuing student has
 - completed **CIVL3141** but not **CIVL3140** then they must do **CIVL3155** and complete either **CIVL6121** or **CIVL4145**
 - **CIVL3141** can count as an Engineering elective if there is room in the program or will be surplus.
 - completed **CIVL3140** but not **CIVL3141** then they must do **CIVL3155** and complete either **CIVL6121** or **CIVL4145**
 - **CIVL3140** can count as an Engineering elective if there is room in the program or will be surplus.

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PART B

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

✓/X compl.	Part B1 - Introductory Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	CHEM1100 Chemistry 1	2		CHEM1100 Chemistry 1	1,2	2	
	CSSE1001 Introduction to Software Engineering	2		CSSE1001 Introduction to Software Engineering OR ENGG1001 Programming for Engineers	1,2	2	
	ENGG1300 Introduction to Electrical Systems	2		ENGG1300 Introduction to Electrical Systems	1,2	2	
	ENGG1500 Engineering Thermodynamics	2		ENGG1500 Thermodynamics: Energy and the Environment	1,2	2	
	ENGG1600 Introduction to Research Practices - The Big Issues	2		ENGG1600 Introduction to Research Practices - The Big Issues	2	2	
	ENGG2000 Humanitarian Engineering	2		ENGG2000 Humanitarian Engineering	2	2	
	ERTH1501 Earth Processes & Geological Materials for Engineers	2		ERTH1501 Earth Processes & Geological Materials for Engineers	1	2	
	MATH2000 Calculus & Linear Algebra II (discontinued)	2	2/20	MATH2001 Calculus & Linear Algebra II	1,2	2	
	MATH2001 Advanced Calculus & Linear Algebra II	2		MATH2001 Calculus & Linear Algebra II	1,2	2	
	MINE2105 Introduction to Mining and Mineral Processing (discontinued)	2	1/21	Any B1 Elective			
	PHYS1002 Electromagnetism and Modern Physics	2		PHYS1002 Electromagnetism and Modern Physics	2	2	
	REDE1300 Building Construction Management & Economics (discontinued)	2	1/20	Any B1 Elective			

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✓/X compl.	Part B2 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	CIVL3510 Project Management with Building Information Modelling (discontinued) (see Note 2)	2	2/22	Any B2 Elective			
	CIVL4230 Advanced Soil Mechanics	2		CIVL4230 Advanced Soil Mechanics	2	2	
	ERTH2004 Structural Geology	2		ERTH2004 Structural Geology	1	2	
	MINE4000 Mine Waste Management & Landform Design (discontinued)	2	1/22	CIVL6220 Mine Waste Management	1	2	

Notes:

2. If CIVL3520 was taken in place of CIVL3510 before semester 2 2024. CIVL3520 will count as a B2 elective.