

## CHECKLIST Bachelor of Engineering (Honours)/Master of Engineering – Civil Engineering (2350): Completion of pre-2021 program

Full name: \_\_\_\_\_ Student Number: \_\_\_\_\_ Date: \_\_\_\_\_

### Points to note

- You need to ensure that you meet minimum program and major requirements (listed below)
- You cannot count the same course twice
- You need to ensure that you don't take courses that are incompatible with courses that you have already counted towards your program, and that any prerequisites have been met

You must complete for the BE(Hons)/ME (Civil Engineering Plan code: CIVENX2350), 80 units comprising -

- 56 units from part A - compulsory, and
- 20 units from the combination of parts B1, B2, and part N - electives; with
  - a minimum of 8 units from part B2; and
  - a minimum of 6 units from part N and
- 4 units from electives, being courses on the BE(Hons)/ME list or other courses approved by the executive dean.

### PART A

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

✓ X compl.	Pre-2021 Part A list	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	56 units 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 & 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 & Materials (NEW)	1,2	2		
	CIVL2135 Environmental Issues and Sustainability in Engineering	2		CIVL2135 Environmental Engineering: An Introduction for Civil Engineers	1	2		
	CIVL2330 Structural Mechanics	2		CIVL2330 Structural Mechanics	1	2		
	CIVL2410 Sustainable Transport Engineering - Traffic Analysis (discontinued)	2	1/21	CIVL2420 Fundamental of Transport Engineering (NEW)	2	2	2/22	
	CIVL2530 Probability and Statistics in Engineering	2		CIVL2530 Statistics and Data Analysis	1	2		
	CIVL2131 Environmental Fluid Mechanics	2		CIVL2131 Environmental Fluid Mechanics	1	2		
	CIVL2210 Soil Mechanics	2		CIVL2210 Soil Mechanics	2	2		
	CIVL2340 Design of Steel Structures (discontinued)	2	2/22	CIVL3380 Structural and Steel Design (NEW)	1	2	1/23	
	CIVL2360 Design of Concrete Structures (discontinued)	2	2/21	CIVL3360 Reinforced Concrete Design	2	2	2/22	

✓ - course already completed X – course to be undertaken

Checked by (Faculty: Name and Date): \_\_\_\_\_

	<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 (NEW) (See Note 1) plus <b>CIVL6121</b> Environmental Hydraulics and Flood Management (NEW) or <b>CIVL4145</b> Groundwater Modelling and Management (NEW)	2 1 2	2 2	2/22 1/23 2/22	
	<b>CIVL3210</b> Geotechnical Engineering	2		<b>CIVL3210</b> Geotechnical Engineering	1	2		
	<b>CIVL3340</b> Structural Analysis	2		<b>CIVL3340</b> Structural Analysis	1	2		
	<b>CIVL3350</b> Integrated Structural Design (discontinued after 2022)	2	2/22	<b>CIVL3390</b> Integrated Structural Design	2	2	2/23	
	<b>CIVL3420</b> Sustainable Transport Engineering - Planning and Design	2		<b>CIVL3420</b> Sustainable Transport Engineering (moves to Semester 1 in 2023)	2	2		
	<b>CIVL3510</b> Project Management with Building Information Modelling (discontinued)	2	2/22	Any B2 Elective				
	<b>CIVL4514</b> Integrated Design	2		<b>CIVL4514</b> Design in the Built Environment (moves to Semester 2 in 2024)	1	2		
	<b>ENGG4900</b> Professional Practice and the Business Environment	2		<b>ENGG4900</b> Professional Practice and the Business Environment	1,2	2		
	<b>CIVL4516</b> Integrated Design for Environmental Management	2		<b>CIVL4516</b> Design for the Natural Environment	2	2		
	<b>CIVL7500</b> Thesis OR <b>CIVL7501</b> Research Thesis	8		<b>CIVL7500</b> Thesis OR <b>CIVL7501</b> Research Thesis	1 2	8		
	<b>ENGG7701</b> Engineering Grand Challenges	2		<b>ENGG7701</b> Engineering Grand Challenges	2	2		
Part A units completed pre-2021:				Part A units to be substituted/completed:				
				Total Part A (must add up to 56 units):				

**Notes:**

1. If a continuing student has

- completed **CIVL3141** but not **CIVL3140** then they must do **CIVL3155**
- completed **CIVL3140** but not **CIVL3141** then they must do **CIVL3155**

**PART B**

✓ X compl.	Part B0 - Preparatory Mathematics & Science Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	<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		

✓ X compl.	Part B1 - Introductory Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
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	<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>MINE3121</b> Mining Geomechanics (discontinued)	2	1/22	<b>MINE3129</b> Applied Mining Geomechanics / <b>CIVL3220</b> Rock Mechanics (NEW)	1 2	2 2	1/23MINE 2/23	
	<b>PHYS1002</b> Electromagnetism and Modern Physics	2		<b>PHYS1002</b> Electromagnetism and Modern Physics (semester 2 only from 2022)	1,2	2		
	<b>REDE1300</b> Building Construction Management & Economics (discontinued)	2	1/20	<b>Any B1 Elective</b>		2		

✓ x compl.	Minimum of 8 units (max of 14 units) from: Part B2 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/x compl.
	<b>CHEE4012</b> Industrial Wastewater & Solid Waste Management (discontinued)	2	2/22	<b>WATR6103</b> Advanced Wastewater and Biosolids Treatment	2	2	2/23	
	<b>CIVL3150</b> Modelling of Environmental Systems (discontinued)	2	2/20	<b>ENVE3150</b> Environmental System Dynamics and Modelling	2	2	2/21	
	<b>CIVL4110</b> Coastal & Estuarine Engineering (discontinued)	2	2/21	<b>CIVL6111</b> Ocean, Coastal and Estuarine Engineering OR <b>CIVL6112</b> Hydro- and Marine Power Renewable Energy Systems (NEW) <b>CIVL6121</b> Environmental Hydraulics and Flood Management	2	2	2/23	
	<b>CIVL4120</b> Advanced Hydraulic Engineering and Structures (discontinued)	2	2/22	<b>CIVL6121</b> Environmental Hydraulics and Flood Management	1	2	1/23	
	<b>CIVL4140</b> Contaminant Transport Modelling (discontinued)	2	1/21	<b>CIVL4145</b> Groundwater Modelling and Management	2	2	2/22	
	<b>CIVL4170</b> Environmental Risk Assessment and Management	2		<b>CIVL4170</b> Environmental Risk Assessment and Management	1	2		
	<b>CIVL4180</b> Sustainable Built Environment (discontinued)	2	1/20	<b>CIVL4525</b> Sustainable Infrastructure Design (NEW)	2	2	2/23	
	<b>CIVL4230</b> Advanced Soil Mechanics	2		<b>CIVL4230</b> Advanced Soil Mechanics	2	2		
	<b>CIVL4270</b> Geotechnical Investigation & Testing	2		<b>CIVL4270</b> Geotechnical Investigation & Testing	1	2		
	<b>CIVL4280</b> Advanced Rock Mechanics	2		<b>CIVL4280</b> Applied Rock Mechanics	2	2		

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	<b>CIVL4332</b> Advanced Structural Analysis (discontinued)	2	2/22	<b>CIVL6360</b> Advanced Structural Analysis	2	2	2/23	
	<b>CIVL4333</b> Advanced Concrete Design	2		<b>CIVL4333</b> Advanced Concrete Design	1	2		
	<b>CIVL4334</b> Design of Timber Structures	2		<b>CIVL4334</b> Design of Timber Structures	2	2		
	<b>CIVL4340</b> Wind Engineering	2		<b>CIVL4340</b> Wind Engineering	1	2		
	<b>CIVL4412</b> Travel Behaviour and Transport Modelling (discontinued)	2	2/21	<b>CIVL6412</b> Traffic Behavioural Modelling (NEW) See Note 1.	2	2	2/22	
	<b>CIVL4450</b> Traffic Flow Theory and Emerging Technologies	2		<b>CIVL4450</b> Traffic Flow Theory and Emerging Technologies	2	2		
	<b>CIVL4460</b> Highway Geometric Design	2		<b>CIVL4460</b> Road Design	2	2		
	<b>CIVL4522</b> Analytical Methods for the Design of Construction Operations	2		<b>CIVL4522</b> Analytical Methods for the Design of Construction Operations	2	2		
	<b>FIRE3700</b> Introduction to Fire Safety Engineering	2		<b>FIRE3700</b> Introduction to Fire Safety Engineering	1	2		
	<b>FIRE4610</b> Fire Engineering Design: Solutions for Implicit Safety	2		<b>FIRE4610</b> Fire Engineering Design: Solutions for Implicit Safety	1	2		
	<b>MINE4000</b> Mine Waste Management & Landform Design (discontinued)	2	1/22	<b>CIVL6220</b> Tailings Design (NEW)	1	2	1/23	

#### Notes

1. CIVL6412 only offered in 2022.

✓ x compl.	Minimum of 6 units (max of 12 units) from: Part N - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/x compl.
	<b>CIVL7131</b> Urban Hydrology	2		<b>CIVL7131</b> Urban Hydrology	1	2		
	<b>CIVL7135</b> Environmental Sensor Systems and Monitoring Techniques (discontinued)	2	1/22	No substitution				
	<b>CIVL7155</b> Environmental Fluid Mechanics - Modelling Applications (discontinued)	2	1/20	Any Part N elective				
	<b>CIVL7215</b> Ground Improvement & Remediation Technologies (discontinued)	2	1/22	<b>CIVL6215</b> Ground Improvement & Remediation Technologies	1	2	1/23	
	<b>CIVL7225</b> Dam and Embankment Engineering (discontinued)	2	2/22	<b>CIVL6210</b> Dam Engineering (NEW)	2	2	2/23	
	<b>CIVL7350</b> Design of Composite Structures (discontinued)	2	2021	<b>CIVL7350</b> Design of Composite Structures (discontinued)	1	2	2021	
	<b>CIVL7415</b> Spatial and Quantitative Methods for Transport Data Analytics	2		<b>CIVL7415</b> Transport Data Analytics	1	2		
	<b>CIVL7425</b> Strategic Transport Modelling (discontinued)	2	1/21	<b>CIVL6412</b> Traffic Behavioural Modelling (NEW) See Note 1.	2	2	2/22	

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	<b>FIRE7660</b> Structural Fire Engineering	2		<b>FIRE7660</b> Structural Fire Engineering	1	2		
	<b>CIVL7235</b> Underground Structures (discontinued)	2	<b>2/22</b>	<b>CIVL6250</b> Underground Structures	2	2	<b>2/24</b>	
	<b>CIVL7315</b> Advanced Concrete Structures and Concrete Technology	2		<b>CIVL7315</b> Advanced Concrete Structures and Concrete Technology	2	2		
	<b>CIVL7360</b> Computational Design and Digital Workflows	2		<b>CIVL7360</b> Computational Design and Digital Workflows	2	2		
	<b>CIVL7435</b> Traffic Simulation: Methods and Applications (discontinued)	2	<b>2/22</b>	<b>CIVL6415</b> Traffic Analysis & Simulation (NEW)	2	2	<b>2/23</b>	
	<b>CIVL7505</b> Research Methods for Civil Engineers	2		<b>CIVL7505</b> Research Methods for Civil Engineers	2	2		
	<b>FIRE7620</b> Fire Dynamics	2		<b>FIRE7620</b> Fire Dynamics	2	2		

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2. CIVL6412 only offered in 2022.

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