

# CHECKLIST Bachelor of Engineering (Honours) – Civil Engineering (2342): 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) (Civil Engineering) - a Single Major or Extended Major, or Major & Minor; 64 units comprising -

- a major - 52 units, comprising-
  - 46 units, being all courses from part A (listed below); and
  - 6 units from a combination of part B1 and B2 electives, (with a minimum of 4 units from part B2); and
- 12 units from electives
  - a minimum of 4 units from courses on the BE(Hons) list, other than courses on the Civil Engineering part B0 list, and
  - a maximum of 4 units from courses on the Civil Engineering part B0 list, and
  - a maximum of 4 units from level one courses not on the BE(Hons) list

OR

- an extended major - 60 units, comprising-
  - 46 units, being all courses from part A - compulsory; and
  - 14 units from a combination of part B1 and B2 electives, (with a minimum of 8 units from part B2); and
- 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.

✓ X compl.	Pre-2021 Part A list	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	46 units, being all courses from: Part A - compulsory							
	<b>ENGG1100</b> Engineering Design (2) and <b>ENGG1200</b> Engineering Modelling & Problem Solving (2) (discontinued) OR <b>ENGG1211</b> Engineering Design, Modelling & Problem Solving (4) (discontinued)	2 2 4	2/20 2/20	<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 (discontinued)	2	2/20	<b>ENGG1700</b> Statics & Materials (NEW)	1,2	2	1/21	
	<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	1	2		

✓ - course already completed X – course to be undertaken

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

	<b>CIVL2410</b> Sustainable Transport Engineering - Traffic Analysis (discontinued)	2	1/21	<b>CIVL2420</b> Fundamental of Transport Engineering (NEW)	2	2	2/22	
	<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	1	2		
	<b>CIVL2210</b> Soil Mechanics	2		<b>CIVL2210</b> Fundamentals of Soil Mechanics	2	2		
	<b>CIVL2340</b> Design of Steel Structures (discontinued)	2	2/22	<b>CIVL3380</b> Structural and Steel Design (NEW)	1	2	1/23	
	<b>CIVL2360</b> Design of Concrete Structures (discontinued)	2	2/21	<b>CIVL3360</b> Reinforced Concrete Design	2	2	2/22	
	<b>CIVL3140</b> Hydraulics of Engineered and Natural Waterways (discontinued) and <b>CIVL3141</b> Hydrology and Hydrological Risk (discontinued)	2	1/22 and 2/22	<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	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	2	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	1	2	2/23	
	<b>CIVL4514</b> Integrated Design	2		<b>CIVL4514</b> Capstone Design: Infrastructure Design Project (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> Capstone Design: integrated Environmental Mgmt Project	2	2		
Part A units completed pre-2021:				Part A units to be substituted/completed:				
				Total Part A (must add up to 46):				

**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		

Once you have completed the checklist, you may either email your checklist to the Faculty on [enquiries@eit.uq.edu.au](mailto:enquiries@eit.uq.edu.au) or book an appointment with an Academic Advisor directly.

**BE(Hons) Transition Plan – Civil continuation**

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✓ X compl.	Part B1 - Introductory Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	CHEM1100 Chemistry 1	2		CHEM1100 Chemistry 1	1,2	2		
	CSSE1001 Introduction to Software Engineering	2		CSSE1001 Introduction to Software Engineering	1,2	2		
	ENGG1300 Introduction to Electrical Systems	2		ENGG1300 Introduction to Electrical Systems	1,2	2		
	ENGG1500 Engineering Thermodynamics	2		ENGG1500 Engineering Thermodynamics	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,S	2		
	MATH2001 Advanced Calculus & Linear Algebra II	2		MATH2001 Calculus & Linear Algebra II	1,2,S	2		
	MINE2105 Introduction to Mining and Mineral Processing (discontinued)	2	1/21	Any B1 Elective		2		
	MINE3121 Mining Geomechanics (discontinued)	2	1/22	MINE3129 Applied Mining Geomechanics OR CIVL3220 Rock Mechanics (NEW)	1 2	2 2	1/23, 2/23	
	PHYS1002 Electromagnetism and Modern Physics	2		PHYS1002 Electromagnetism and Modern Physics (semester 2 only from 2022)	1,2	2		
	REDE1300 Building Construction Management & Economics (discontinued)	2	1/20	Any B1 Elective		2		
✓ X compl.	Part B2 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	CHEE4012 Industrial Wastewater & Solid Waste Management (discontinued)	2	2/22	WATR6103 Advanced Wastewater and Biosolids Treatment	2	2	2/23	
	CIVL3150 Modelling of Environmental Systems (discontinued)	2	2/20	ENVE3150 Environmental System Dynamics and Modelling	2	2	2/21	
	CIVL4110 Coastal & Estuarine Engineering (discontinued)	2	2/21	CIVL6111 Ocean, Coastal and Estuarine Engineering OR CIVL6112 Hydro- and Marine Power Renewable Energy Systems (NEW)	2	2	2/23	
	CIVL4120 Advanced Hydraulic Engineering and Structures (discontinued)	2	2/22	CIVL6121 Environmental Hydraulics and Flood Management	1	2	1/23	
	CIVL4140 Contaminant Transport Modelling (discontinued)	2	1/21	CIVL4145 Groundwater Modelling and Management	2	2	2/22	
	CIVL4170 Environmental Risk Assessment and Management	2		CIVL4170 Environmental Risk Assessment and Management	1	2		

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	<b>CIVL4180 Sustainable Built Environment (discontinued)</b>	2	1/20	<b>CIVL4525 Sustainable Infrastructure Design (NEW)</b>	2	2	2/23	
	<b>CIVL4230 Advanced Soil Mechanics</b>	2		<b>CIVL4230 Advanced Soil Mechanics</b>	2	2		
	<b>CIVL4270 Geotechnical Investigation &amp; Testing</b>	2		<b>CIVL4270 Geotechnical Investigation &amp; Testing</b>	1	2		
	<b>CIVL4280 Advanced Rock Mechanics</b>	2		<b>CIVL4280 Applied Rock Mechanics</b>	2	2		
	<b>CIVL4332 Advanced Structural Analysis (discontinued)</b>	2	2/22	<b>CIVL6360 Advanced Structural Analysis</b>	2	2	2/23	
	<b>CIVL4333 Advanced Concrete Design</b>	2		<b>CIVL4333 Advanced Concrete Design</b>	1	2		
	<b>CIVL4334 Design of Timber Structures</b>	2		<b>CIVL4334 Design of Timber Structures</b>	2	2		
	<b>CIVL4340 Wind Engineering</b>	2		<b>CIVL4340 Wind Engineering</b>	1	2		
	<b>CIVL4412 Travel Behaviour and Transport Modelling (discontinued)</b>	2	2/21	<b>CIVL6412 Traffic Behavioural Modelling (NEW)</b> See Note 1.	2	2	2/22	
	<b>CIVL4450 Traffic Flow Theory and Emerging Technologies</b>	2		<b>CIVL4450 Traffic Flow Theory and Emerging Technologies</b>	2	2		
	<b>CIVL4460 Highway Geometric Design</b>	2		<b>CIVL4460 Road Design</b>	2	2		
	<b>CIVL4522 Analytical Methods for the Design of Construction Operations</b>	2		<b>CIVL4522 Analytical Methods for the Design of Construction Operations</b>	2	2		
	<b>CIVL4560 Project (discontinued)</b>	2	2/22	<b>CIVL4600 Research Project</b>	1,2	2	1/23	
	<b>CIVL4580 Research Thesis (discontinued) / CIVL4583 (from 1/21)</b>	4	1/22	<b>CIVL4604 Research Thesis (NEW)</b>	1,2	4	1/23	
	<b>CIVL4582 Research Thesis (discontinued) / CIVL4584 (from 2/21)</b>	4	2/22	<b>CIVL4606 Research Thesis (NEW)</b>	2,1	4	2/23	
	<b>FIRE3700 Introduction to Fire Safety Engineering</b>	2		<b>FIRE3700 Introduction to Fire Safety Engineering</b>	1	2		
	<b>FIRE4610 Fire Engineering Design: Solutions for Implicit Safety</b>	2		<b>FIRE4610 Fire Engineering Design: Solutions for Implicit Safety</b>	1	2		
	<b>MINE4000 Mine Waste Management &amp; Landform Design (discontinued)</b>	2	1/22	<b>CIVL6220 Tailings Design</b>	1	2	1/23	

#### Notes

1. CIVL6412 only offered in 2022.

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