

# CHECKLIST Bachelor of Engineering (Honours) Civil Engineering Specialisation: Transition to new program

\* This checklist is for the BE(Hons) component for dual programs with Bachelor of Arts, Bachelor of Business Management, Bachelor of Commerce, Bachelor of Design, Bachelor of Economics, Bachelor of Information Technology

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
- Please ensure you read the program rules to check for any special rules with your dual program, as course restrictions may apply
- Please contact the relevant Faculty for information regarding the other component of your dual program

For the BE(Hons) component, with a specialisation in Civil Engineering:

(a) 56 units from the BE(Hons) component, comprising—

- (i) 8 units for BE(Hons) core courses, and
- (ii) 36 units for a BE(Hons) Civil Engineering specialisation, and
- (iii) 12 units for specified BE(Hons) Civil Engineering electives

✓/X compl.	You must complete (NEW Program requirements)	Sem offering	#	First offered	Approved substitution	Last offered
	8 units for all: Core Courses					
	<b>ENGG1100</b> Professional Engineering	1,2	2		Course must be completed [ENGG1211 (4 units) will count as 2 units towards Part A in lieu of ENGG1100, and 2 units towards program electives]	
	<b>ENGG1001</b> Programming for Engineers (NEW) or <b>CSSE1001</b> Introduction to Software Engineering	1,2	2	<b>1/21</b>	Course must be completed	
	<b>MATH1051</b> Calculus & Linear Algebra I or <b>MATH1071</b> Advanced Calculus & Linear Algebra I	1,2	2		Course must be completed	
	<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations or <b>MATH1072</b> Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2		Course must be completed	

✓ - course already completed    X – course to be undertaken

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

## 2021 Civil Engineering specialisation list (36 units)

✓/X compl.		Sem offering	#	First offered	Approved substitution	Last offered
	28 units for all: Compulsory Courses					
	<b>ENGG1700</b> Statics & Materials (NEW)	1,2	2	<b>1/21</b>	<b>ENGG1400</b> Engineering Mechanics: Statics and Dynamics (discontinued)	<b>2/20</b>
	<b>CIVL2131</b> Environmental Fluid Mechanics	1	2		Course must be completed	
	<b>CIVL2135</b> Environmental Engineering: An Introduction for Civil Engineers	1	2		<b>CIVL2135</b> Environmental Issues and Sustainability in Engineering	
	<b>CIVL2210</b> Fundamentals of Soil Mechanics	2	2		Course must be completed	
	<b>CIVL2330</b> Structural Mechanics	1	2		Course must be completed	
	<b>CIVL2420</b> Fundamentals of Transport Engineering (NEW)	2	2	<b>2/22</b>	<b>CIVL2410</b> Sustainable Transport Engineering - Traffic Analysis (discontinued)	<b>1/21</b>
	<b>CIVL2530</b> Statistics and Data Analysis	1	2		<b>CIVL2530</b> Probability and Statistics in Engineering	
	<b>CIVL3155</b> Hydrology and Free Surface Flows (NEW)	2	2	<b>2/22</b>	<b>CIVL3141</b> Hydrology and Hydrological Risk (discontinued) and <b>CIVL3140</b> Hydraulics of Engineered and Natural Waterways (discontinued) [Both courses are required to have been completed to exempt students from CIVL3155; therefore 2 units will count as a Compulsory Course and 2 units will count towards Civil Engineering Advanced Electives]	<b>2/21</b>  <b>1/21</b>
	<b>CIVL3210</b> Geotechnical Engineering	1	2		Course must be completed	
	<b>CIVL3360</b> Reinforced Concrete Design	2	2	<b>2/22</b>	<b>CIVL2360</b> Design of Concrete Structures (discontinued)	<b>2/21</b>
	<b>CIVL3520</b> Project Management and Professional Practice (NEW)	2	2	<b>2/23</b>	<b>CIVL3510</b> Project Management with Building Information Modelling (discontinued)	<b>2/22</b>
	<b>CIVL3530</b> Data Analytics in Civil Engineering (NEW)	1	2	<b>1/22</b>	Course must be completed	
	<b>CIVL4170</b> Risk Analysis and Assessment	1	2		Course must be completed	
	<b>CIVL4514</b> Design in the Built Environment (changes to sem 2 in 2024) or <b>CIVL4516</b> Design for the Natural Environment	2 2	2		<b>CIVL4514</b> Integrated Design or <b>CIVL4516</b> Integrated Design for Environmental Environment If both courses are completed, 2 units will count as a Compulsory Course and 2 units will count towards Civil Engineering Advanced Electives	<b>1/23</b> <b>1/23</b>

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

**BE(Hons)/Bxx Transition Plan – Civil Engineering NEW**

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

/X compl.		Sem offer ing	#	First offered	Approved substitution	Last offered
	2-4 units from: Civil Engineering Research Courses					
	<b>CIVL4600</b> Research Project	1,2	2	<b>1/23</b>	<b>CIVL4560</b> Project (2)	<b>2/22</b>
	<b>CIVL4604</b> Research Thesis (NEW) or <b>CIVL4606</b> Research Thesis (NEW)	1,2 2,1	4	<b>1/23</b> <b>2/23</b>	Students who have completed CIVL4580 or CIVL4583 or CIVL4582 or CIVL4584 will receive credit for CIVL4604 or CIVL4606	
	2-4 units from: Civil Engineering Advanced Electives					
	<b>CIVL3220</b> Rock Mechanics (NEW)	2	2	<b>2/23</b>	<b>MINE3121</b> Mining Geomechanics (discontinued)	<b>1/22</b>
	<b>CIVL3340</b> Structural Analysis	1	2		No substitution	
	<b>CIVL3380</b> Structural and Steel Design (NEW)	1	2	<b>1/23</b>	<b>CIVL2340</b> Design of Steel Structures (discontinued)	<b>2/22</b>
	<b>CIVL3390</b> Integrated Structural Design (NEW)	2	2	<b>2/23</b>	<b>CIVL3350</b> Integrated Structural Design	<b>2/22</b>
	<b>CIVL3420</b> Sustainable Transport Engineering – Planning and Design	1	2		No substitution	
	<b>CIVL4145</b> Groundwater Modelling and Management (NEW)	2	2	<b>2/22</b>	<b>CIVL4140</b> Contaminant Transport Modelling (discontinued)	<b>1/21</b>
	<b>CIVL4230</b> Advanced Soil Mechanics	2	2		No substitution	
	<b>CIVL4270</b> Geotechnical Investigation & Testing	1	2		No substitution	
	<b>CIVL4280</b> Applied Rock Mechanics	2	2			
	<b>CIVL4333</b> Advanced Concrete Design	1	2		No substitution	
	<b>CIVL4334</b> Design of Timber Structures	2	2		No substitution	
	<b>CIVL4340</b> Wind Engineering	1	2		No substitution	
	<b>CIVL4450</b> Traffic Flow Theory and Emerging Technologies	2	2		No substitution	
	<b>CIVL4460</b> Highway Geometric Design	2	2		<b>CIVL4460</b> Road Design	
	<b>CIVL4522</b> Analytical Methods for the Design of Construction Operations	2	2		No substitution	
	<b>CIVL4525</b> Sustainable Infrastructure Design (NEW)	2	2	<b>2/23</b>	<b>CIVL4180</b> Sustainable Built Environment (discontinued)	<b>1/20</b>
	<b>CIVL6111</b> Ocean, Coastal & Estuarine Engineering (NEW)	2	2	<b>2/23</b>	<b>CIVL4110</b> Coastal & Estuarine Engineering (discontinued) * CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both	<b>2/22</b>
	<b>CIVL6112</b> Hydro- and Marine Power Renewable Energy Systems (NEW)	2	2	<b>2/23</b>	<b>CIVL4110</b> Coastal & Estuarine Engineering (discontinued) * CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both	<b>2/22</b>

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	<b>CIVL6121</b> Environmental Hydraulics and Flood Management (NEW)	1	2	<b>1/23</b>	<b>CIVL4120</b> Advanced Hydraulic Engineering and Structures (discontinued)	<b>2/22</b>
	<b>CIVL6210</b> Dam Engineering (NEW)	2	2	<b>2/23</b>	No substitution	
	<b>CIVL6215</b> Ground Improvement (NEW)	1	2	<b>1/23</b>	No substitution	
	<b>CIVL6220</b> Tailings Design (NEW)	1	2	<b>1/23</b>	No substitution	
	<b>CIVL6250</b> Underground Structures (NEW)	2	2	<b>2/23</b>	No substitution	
	<b>CIVL6360</b> Advanced Structural Analysis (NEW)	2	2	<b>2/23</b>	<b>CIVL4332</b> Advanced Structural Analysis (discontinued)	<b>2/22</b>
	<b>CIVL6410</b> Transport Network Modelling (NEW)	1	2	<b>1/23</b>	No substitution	
	<b>CIVL6415</b> Traffic Analysis and Simulation (NEW)	2	2	<b>2/23</b>	No substitution	
	<b>ENVE3150</b> Environmental System Dynamics and Modelling	2	2	<b>2/21</b>	<b>CIVL3150</b> Modelling of Environmental Systems (discontinued)	<b>2/20</b>
	<b>ENVE3160</b> Environmental Phenomena (NEW)	1	2	<b>1/23</b>	No substitution	
	<b>ENVE4610</b> Engineering the Circular Economy (NEW)	1	2	<b>1/23</b>	No substitution	
	<b>FIRE3700</b> Introduction to Fire Safety Engineering	1	2		No substitution	
	<b>FIRE4610</b> Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	
	2 units from Program Electives					

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**BE(Hons)/Bxx Transition Plan – Civil Engineering NEW**

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

## Civil Engineering Electives

Students must complete 12 units comprising -

- i. 8 to 12 units from Civil Engineering Advanced Electives; and
- ii. 0 to 4 units from any Civil Engineering Breadth Electives

✓/X compl.	8 to 12 units from: Civil Engineering Advanced Electives	Sem offering	#	First offered	Approved substitution	Last offered
	<b>CIVL3220</b> Rock Mechanics (NEW)	2	2	<b>2/23</b>	<b>MINE3121</b> Mining Geomechanics (discontinued)	<b>1/22</b>
	<b>CIVL3340</b> Structural Analysis	1	2		No substitution	
	<b>CIVL3380</b> Structural and Steel Design (NEW)	1	2	<b>1/23</b>	<b>CIVL2340</b> Design of Steel Structures (discontinued)	<b>2/22</b>
	<b>CIVL3390</b> Integrated Structural Design (NEW)	2	2	<b>2/23</b>	<b>CIVL3350</b> Integrated Structural Design (discontinued)	<b>2/22</b>
	<b>CIVL3420</b> Sustainable Transport Engineering – Planning and Design	1	2		No substitution	
	<b>CIVL6111</b> Ocean, Coastal & Estuarine Engineering (NEW)	2	2	<b>2/23</b>	<b>CIVL4110</b> Coastal & Estuarine Engineering (discontinued) * CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both	<b>2/21</b>
	<b>CIVL6112</b> Hydro- and Marine Power Renewable Energy Systems (NEW)	2	2	<b>2/23</b>	<b>CIVL4110</b> Coastal & Estuarine Engineering (discontinued) * CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both	
	<b>CIVL6121</b> Environmental Hydraulics and Flood Management (NEW)	1	2	<b>1/23</b>	<b>CIVL4120</b> Advanced Hydraulic Engineering and Structures (discontinued)	<b>2/22</b>
	<b>CIVL4145</b> Groundwater Modelling and Management (NEW)	2	2	<b>2/22</b>	<b>CIVL4140</b> Contaminant Transport Modelling (discontinued)	<b>1/21</b>
	<b>CIVL4230</b> Advanced Soil Mechanics	2	2		No substitution	
	<b>CIVL4270</b> Geotechnical Investigation	1	2		No substitution	
	<b>CIVL4280</b> Applied Rock Mechanics	2	2		<b>CIVL4280</b> Advanced Rock Mechanics	
	<b>CIVL4333</b> Advanced Concrete Design	1	2		No substitution	
	<b>CIVL4334</b> Design of Timber Structures	2	2		No substitution	
	<b>CIVL4340</b> Wind Engineering	1	2		No substitution	
	<b>CIVL4450</b> Traffic Flow Theory and Emerging Technologies	2	2		No substitution	
	<b>CIVL4460</b> Highway Geometric Design	2	2		<b>CIVL4460</b> Road Design	
	<b>CIVL4522</b> Analytical Methods for the Design of Construction Operations	2	2		No substitution	
	<b>CIVL4525</b> Sustainable Infrastructure Design (NEW)	2	2	<b>2/23</b>	<b>CIVL4180</b> Sustainable Built Environment (discontinued)	<b>1/20</b>
	<b>CIVL6210</b> Dam Engineering (NEW)	2	2	<b>2/23</b>	No substitution	
	<b>CIVL6215</b> Ground Improvement (NEW)	1	2	<b>1/23</b>	No substitution	

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	<b>CIVL6220</b> Tailings Design (NEW)	1	2	<b>1/23</b>	No substitution	
	<b>CIVL6250</b> Underground Structures (NEW)	2	2	<b>2/23</b>	No substitution	
	<b>CIVL6360</b> Advanced Structural Analysis (NEW)	2	2	<b>2/23</b>	<b>CIVL4332</b> Advanced Structural Analysis (discontinued)	<b>2/22</b>
	<b>CIVL6410</b> Transport Network Modelling (NEW)	1	2	<b>1/23</b>	No substitution	
	<b>CIVL6415</b> Traffic Analysis and Simulation (NEW)	2	2	<b>2/23</b>	No substitution	
	<b>ENVE3150</b> Environmental System Dynamics and Modelling	2	2	<b>2/21</b>	<b>CIVL3150</b> Modelling of Environmental Systems (discontinued)	<b>2/20</b>
	<b>ENVE3160</b> Environmental Phenomena (NEW)	1	2	<b>1/23</b>	No substitution	
	<b>ENVE4610</b> Engineering the Circular Economy (NEW)	1	2	<b>1/23</b>	No substitution	
	<b>FIRE3700</b> Introduction to Fire Safety Engineering	1	2		No substitution	
	<b>FIRE4610</b> Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	
	0 to 4 units from: Civil Engineering Breadth Electives					
	<b>MATH2001</b> Calculus and Linear Algebra II	1,2,5	2		<b>MATH2000</b> Calculus and Linear Algebra II (discontinued)	

**Civil Engineering Breadth Electives** can also be chosen from course lists for the following majors:

- o Environmental Engineering
- o General Civil Engineering
- o Geotechnical Engineering
- o Mining Engineering
- o Structural Engineering
- o Transport Engineering
- o Water and Marine Engineering

***Courses on this list may require pre-requisites. Please seek academic advice if required.***

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