

## CHECKLIST Bachelor of Engineering (Honours) – Civil Engineering (2455): Transition to new 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

### *Complete 64 units comprising -*

- I. 8 units for all BE(Hons) Core Courses; and
- II. 36 units for one Specialisation in Civil Engineering; and
- III. One of the following:
  - a. 16 units for one Major from Civil Engineering Major Options\*, or
  - b. 16 units for Civil Engineering Minor Options\*\*, or
  - c. 16 units for Civil Engineering Specialisation No Major option, and
- IV. 0 to 4 units from Preparatory Science and Mathematics Courses; and
- V. 0 to 4 units from Program Electives; and
- VI. 0 to 4 units from General Electives.

\*Majors available in: Environmental Engineering; General Civil Engineering; Geotechnical Engineering; Mining Engineering; Structural Engineering; Transport Engineering; Water and Marine Engineering

\*\*Minors available in: Data Science; Computing, Design

NB: Of the 64 units required for the program, students must complete at least 24 units of courses at level 3 or higher and no more than 24 units at level 1.

✓/X compl.	You must complete (NEW Program requirements)	Sem offering	#	First offered	Approved substitution	Last offered
	<b>8 units for all: Core Courses</b>					
	<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): \_\_\_\_\_

✓/X compl.	2021 Civil Engineering specialisation list (36 units)	Sem offering	#	First offered	Approved substitution	Last offered
	28 units for all: Compulsory Courses					
	ENGG1700 Statics & Materials (NEW)	1,2	2	1/21	ENGG1400 Engineering Mechanics: Statics and Dynamics (discontinued)	2/20
	CIVL2131 Environmental Fluid Mechanics	1	2		Course must be completed	
	CIVL2135 Environmental Engineering: An Introduction for Civil Engineers	1	2		CIVL2135 Environmental Issues and Sustainability in Engineering	
	CIVL2210 Fundamentals of Soil Mechanics	2	2		Course must be completed	
	CIVL2330 Structural Mechanics	1	2		Course must be completed	
	CIVL2420 Fundamentals of Transport Engineering (NEW)	2	2	2/22	CIVL2410 Sustainable Transport Engineering - Traffic Analysis (discontinued)	1/21
	CIVL2530 Statistics and Data Analysis	1	2		CIVL2530 Probability and Statistics in Engineering	
	CIVL3155 Hydrology and Free Surface Flows (NEW)	2	2	2/22	CIVL3141 Hydrology and Hydrological Risk (discontinued) and CIVL3140 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]	2/21  1/21
	CIVL3210 Geotechnical Engineering	1	2		Course must be completed	
	CIVL3360 Reinforced Concrete Design	2	2	2/22	CIVL2360 Design of Concrete Structures (discontinued)	2/21
	CIVL3520 Project Management and Professional Practice (NEW)	2	2	2/23	CIVL3510 Project Management with Building Information Modelling (discontinued) or ENGG4900 Professional Practice and the Business Environment	2/22
	CIVL3530 Data Analytics in Civil Engineering (NEW)	1	2	1/22	Course must be completed	
	CIVL4170 Risk Analysis and Assessment	1	2		Course must be completed	
	CIVL4514 Design in the Built Environment (changes to semester 2 in 2024) or CIVL4516 Design for the Natural Environment	1 2	2		CIVL4514 Integrated Design CIVL4516 Integrated Design for Environmental Environment	
	2-44 units from: Civil Engineering Research Courses					
	CIVL4600 Research Project	1,2	2	1/23	CIVL4560 Project (2)	2/22
	CIVL4604 Research Thesis (NEW) or	1,2	4	1/23	Students who have completed CIVL4580 or CIVL4583 or CIVL4582 or CIVL4584 will receive credit for CIVL4604 or CIVL4606	

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

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	<b>CIVL4606</b> Research Thesis (NEW)	2,1		<b>2/23</b>		
	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	
	CIVL3390 Integrated Structural Design	2	2	2/23	<b>CIVL3350</b> Integrated Structural Design	<b>2/22</b>
	<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>CIVL3420</b> Sustainable Transport Engineering – Planning and Design (moves to Semester 1 in 2023)	2	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	<b>1/22</b>	<b>CIVL4270</b> Geotechnical Investigation	
	<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		No substitution	
	<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>CIVL6111</b> Ocean, Coastal & Estuarine Engineering (NEW)	2	2	<b>2/23</b>	<b>CIVL4110</b> Coastal & Estuarine Engineering (discontinued) * <b>CIVL4110</b> may only be used as approved substitution for <b>CIVL6111</b> OR <b>CIVL6112</b> – 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) * <b>CIVL4110</b> may only be used as approved substitution for <b>CIVL6111</b> OR <b>CIVL6112</b> – not both	<b>2/21</b>
	<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	

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	<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>	<b>MINE4000</b> Mine Waste Management & Landform Design (discontinued)	<b>2/21</b>
	<b>CIVL6250</b> Underground Structures (NEW)	2	2	<b>2/24</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>1/22</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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## Civil Engineering No Major Option

Students must complete 16 units comprising -

- i. 8 to 16 units from Civil Engineering Advanced Electives; and
- ii. 0 to 8 units from any Civil Engineering Breadth Electives; and
- iii. 0 to 4 units from Program Electives; and
- iv. 0 to 4 units from General Electives.

✓/X compl.	8 to 16 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	
	CIVL3390 Integrated Structural Design	2	2	2/23	<b>CIVL3350</b> Integrated Structural Design	<b>2/22</b>
	<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>CIVL3420</b> Sustainable Transport Engineering – Planning and Design (moves to Semester 1 in 2023)	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) <b>* CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both</b>	<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) <b>* CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both</b>	
	<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 & Testing	1	2	<b>1/22</b>	<b>CIVL4270</b> Geotechnical Investigation	
	<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		No substitution	
	<b>CIVL4522</b> Analytical Methods for the Design of Construction Operations	2	2		No substitution	

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	<b>CIVL4525</b> Sustainable Infrastructure Design (NEW)	2	2	<b>2/23</b>	<b>CIVL4180</b> Sustainable Built Environment (discontinued)	
	<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>	<b>MINE4000</b> Mine Waste Management & Landform Design (discontinued)	<b>2/21</b>
	<b>CIVL6250</b> Underground Structures (NEW)	2	2	<b>2/24</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 8 units from: Civil Engineering Breadth Electives					
	<b>MATH2001</b> Calculus and Linear Algebra II	1,2,S	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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**BE(Hons) Transition Plan – Civil Engineering NEW**

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

✓/X compl.	Major in Environmental Engineering (16 units)	Sem offering	#	First offered	Approved substitution	Last offered
	8 units for all: Environmental Engineering Compulsory Courses					
	ENVE2501 Environmental Systems	1	2	1/21	CHEE2501 Environmental Systems Engineering I: Processes (discontinued)	1/20
	ENVE3150 Environmental System Dynamics and Modelling	2	2	2/21	CIVL3150 Modelling of Environmental Systems (discontinued)	2/20
	ENVE3160 Environmental Phenomena (NEW)	1	2	1/23	Course must be completed	
	ENVE4610 Engineering the Circular Economy (NEW)	1	2	1/23	Course must be completed	
	4 to 8 units from: Environmental Engineering Electives					
	WATR6103 Advanced Wastewater and Biosolids Treatment	2	2	2/23	CHEE4012 Industrial Wastewater & Solid Waste Management (discontinued)	2/22
	CIVL3420 Sustainable Transport Engineering – Planning and Design (moves to semester 1 in 2023)	1	2		No substitution	
	CIVL6111 Ocean, Coastal & Estuarine Engineering (NEW)	2	2	2/23	CIVL4110 Coastal & Estuarine Engineering (discontinued) * approved substitution for CIVL6111 OR CIVL6112 – not both	2/21
	CIVL6112 Hydro- and Marine Power Renewable Energy Systems (NEW)	2	2	2/23	CIVL4110 Coastal & Estuarine Engineering (discontinued) * approved substitution for CIVL6111 OR CIVL6112 – not both	2/21
	CIVL6121 Environmental Hydraulics and Flood Management (NEW)	1	2	1/23	CIVL4120 Advanced Hydraulic Engineering and Structures (discontinued)	2/22
	CIVL4145 Groundwater Modelling and Management (NEW)	2	2	2/22	CIVL4140 Contaminant Transport Modelling (discontinued)	1/21
	CIVL4525 Sustainable Infrastructure Design (NEW)	2	2	2/23	CIVL4180 Sustainable Built Environment (discontinued)	
	ENGY4000 Energy Systems	1	2		No substitution	
	ENVM3103 Regulatory Frameworks for Environmental Management & Planning	1	2		No substitution	
	WATR6105 Integrated Urban Water Management	1	2	1/21	No substitution	
	WATR6106 Emerging Issues in the Urban Water Cycle and Public Water	1	2	1/21	No substitution	
	WATR6108 Advanced Unit Operations in Water Management	1	2	1/21	No substitution	
	WATR6109 Drinking Water Supply: Source, Treatment and Distribution	1	2	1/21	No substitution	

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	4 units from a. Environmental Engineering Research Electives; and/or b. Environmental Engineering Breadth Electives; and/or c. Chemical Engineering Advanced Electives; and/or d. Civil Engineering Advanced Electives.  <b><u>Environmental Engineering Research Electives</u></b>					
	<b>CHEE4006</b> Research Project	1	2		No substitution	
	<b>CHEE4007</b> Research Project	2	2		No substitution	
	<b>CHEE4026</b> Research Thesis or <b>CHEE4027</b> Research Thesis	1 2	4		No substitution	
	<b><u>Environmental Engineering Breadth Electives</u></b>					
	<b>ENVM2100</b> Foundations of Sustainable Development	2	2		No substitution	
	<b>ENVM3201</b> Catchment Processes & Management	1	2		No substitution	
	<b>ERTH1501</b> Earth Processes and Geological Materials for Engineers	1	2		No substitution	
	<b>ERTH2004</b> Structural Geology	2	2		No substitution	
	<b>ERTH3250</b> Hydrogeology	2	2		No substitution	
	<b>GEOM1000</b> Fundamentals of Geographic Information and Technologies	2	2		No substitution	
	<b>GEOM2001</b> Geographical Information Systems	1	2		No substitution	
	<b>GEOS1100</b> Environment & Society	1,2	2		No substitution	
	<b>GEOS2100</b> Environmental Systems	1	2		No substitution	
	<b>GEOS3102</b> Global Change: Problems and Prospects	2	2		No substitution	

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✓/X compl.	Major in General Civil Engineering (16 units) (discontinued – follow <a href="#">no major option</a> )	Sem offering	#	First offered	Approved substitution	Last offered
	8 units for: General Civil Engineering Compulsory Courses					
	<b>CIVL3420</b> Sustainable Transport Engineering (moves to semester 1 in 2023)	2	2		Course must be completed	
	<b>CIVL3340</b> Structural Analysis	1	2		Course must be completed	
	<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>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>
	4 to 8 units: from General Civil Engineering Electives					
	<b>ERTH1501</b> Earth Processes and Geological Materials for Engineers	1	2		No substitution	
	<i>CIVL3390 Integrated Structural Design</i>	2	2	<b>2/22</b>	<b>CIVL3390</b> Integrated Structural Design	<b>2/23</b>
	<b>CIVL6111</b> Ocean, Coastal & Estuarine Engineering (NEW)	2	2	<b>2/23</b>	<b>CIVL4110</b> Coastal & Estuarine Engineering (discontinued)	<b>2/21</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>CIVL4270</b> Geotechnical Investigations	1	2		No substitution	
	<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		No substitution	
	<b>CIVL4525</b> Sustainable Infrastructure Design (NEW)	2	2	<b>2/23</b>	<b>CIVL4180</b> Sustainable Built Environment (discontinued)	
	0 to 4 units from: Civil Engineering Advanced Electives					

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

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✓/X compl.	Major in Geotechnical Engineering (16 units)	Sem offering	#	First offered	Approved substitution	Last offered
	8 units for all: Geotechnical Engineering Compulsory Courses					
	<b>CIVL3220</b> Rock Mechanics (NEW)	2	2	<b>2/23</b>	<b>MINE3121</b> Mining Geomechanics (discontinued)	<b>1/22</b>
	<b>CIVL4230</b> Advanced Soil Mechanics	2	2		Course must be completed	
	<b>CIVL4270</b> Geotechnical Investigations	1	2		Course must be completed	
	<b>CIVL6215</b> Ground Improvement (NEW)	1	2	<b>1/23</b>	No substitution	<b>1/22</b>
	2 to 8 units from: Geotechnical Engineering Electives					
	<b>CIVL4280</b> Applied Rock Mechanics	2	2		Course must be completed	
	<b>CIVL6250</b> Underground Structures (NEW)	2	2	<b>2/24</b>	No substitution	2/22
	<b>CIVL6210</b> Dam Engineering (NEW)	2	2	<b>2/23</b>	No substitution	2/22
	<b>CIVL6220</b> Tailings Design (NEW)	1	2	<b>1/23</b>	<b>MINE4000</b> Mine Waste Management & Landform Design (Discontinued)	<b>1/22</b>
	0 to 4 units from: Geotechnical Engineering Breadth Electives					
	<b>CIVL4340</b> Wind Engineering	1	2		No substitution	
	<b>CIVL4460</b> Highway Geometric Design	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>METL3129</b> Applied Mining Geomechanics (NEW)	1	2	<b>1/22</b>	<b>MINE4120</b> Mine Geotechnical Engineering (discontinued) <b>or</b> <b>MINE3129</b> Applied Mining Geomechanics (discontinued)	<b>1/22</b> <b>1/21</b>
	<b>ERTH3250</b> Hydrogeology	2	2		No substitution	
	<b>FIRE3700</b> Introduction to Fire Safety Engineering	1	2		No substitution	
	0 to 4 units from: Civil Engineering Advanced Electives					

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

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

✓/X compl.	Major in Mining Engineering (16 units)	Sem offering	#	First offered	Approved substitution	Last offered
	12 units for: Mining Engineering Compulsory Courses					
	<b>MINE3110</b> Integrated Orebody Knowledge (NEW)	1	2	1/23	<b>MINE3120</b> Resource Estimation (discontinued)	1/22
	<b>MINE3122</b> Mining Systems & Automation	1	2	2/23	<b>MINE3122</b> Mining Systems	1/22
	<b>MINE3123</b> Mine Planning & Sustainability	2	2	1/23	<b>MINE3123</b> Mine Planning	2/22
	<b>METL3129</b> Applied Mining Geomechanics (NEW)	1	2	1/22	<b>MINE3121</b> Mining Geomechanics (discontinued)	1/22
	<b>MINE4124</b> Mine Design, Feasibility and Sustainability	2	2	2/24	<b>MINE4124</b> Hard Rock Mine Design & Feasibility	1/23
	<b>MINE4129</b> Mine Process Optimisation (NEW)	1	2	1/23	<b>MINE3125</b> Explosives and Blasting Engineering (discontinued)	1/22
	4 units for: Mining Engineering Courses for Civil Engineers only					
	4 units from: Civil Engineering Advanced Electives					

✓/X compl.	Major in Structural Engineering (16 units)	Sem offering	#	First offered	Approved substitution	Last offered
	10 units for all: Structural Engineering Compulsory Courses					
	<b>CIVL3340</b> Structural Analysis	1	2		Course must be completed	
	<b>CIVL3390</b> Integrated Structural Design	2	2	2/23	<b>CIVL3350</b> Integrated Structural Design	2/22
	<b>CIVL3380</b> Structural and Steel Design (NEW)	1	2	1/23	<b>CIVL2340</b> Design of Steel Structures (discontinued)	2/22
	<b>CIVL4333</b> Advanced Concrete Design	1	2		Course must be completed	
	<b>CIVL4334</b> Design of Timber Structures	2	2		Course must be completed	
	4 to 6 units from: Structural Engineering Electives					
	<b>CIVL4230</b> Advanced Soil Mechanics	2	2	2/21	No substitution	
	<b>CIVL4340</b> Wind Engineering	1	2		No substitution	
	<b>CIVL4522</b> Analytical methods for the Design of Construction Operations	2	2		No substitution	
	<b>CIVL4525</b> Sustainable Infrastructure Design (NEW)	2	2	2/23	<b>CIVL4180</b> Sustainable Built Environment (discontinued)	

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	<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>FIRE4610</b> Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	
	0 to 2 units from: Civil Engineering Advanced Electives					

✓/X compl.	Major in Transport Engineering (16 units)	Sem offering	#	First offered	Approved substitution	Last offered
	10 units for all: Transport Engineering Compulsory Courses					
	<b>CIVL3420</b> Sustainable Transport Engineering (moves to semester 1 in 2023)	2	2		Course must be completed	
	<b>CIVL4460</b> Highway Geometric Design	2	2		Course must be completed	
	<b>CIVL6410</b> Transport Network Modelling (NEW)	1	2	<b>1/23</b>	Course must be completed	
	<b>CIVL4450</b> Traffic Flow Theory and Emerging Technologies	2	2		Course must be completed	
	<b>CIVL6415</b> Traffic Analysis and Simulation (NEW)	2	2	<b>2/23</b>	Course must be completed	2/22

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	4 to 6 units from: Civil Engineering Advanced Electives					

✓/X compl.	Major in Water and Marine Engineering (16 units)	Sem offering	#	First offered	Approved substitution	Last offered
	8 units for all: Water and Marine Engineering Compulsory Courses					
	<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>CIVL6111</b> Ocean, Coastal & Estuarine Engineering (NEW)	2	2	<b>2/23</b>	<b>CIVL4110</b> Coastal & Estuarine Engineering (discontinued)	<b>2/21</b>
	<b>CIVL6112</b> Hydro- and Marine Power Renewable Energy Systems (NEW)	2	2	<b>2/23</b>	Course must be completed	
	<b>CIVL4340</b> Wind Engineering	1	2		Course must be completed	
	4 to 8 units from: Water and Marine Engineering Electives					
	<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>CIVL4525</b> Sustainable Infrastructure Design	2	2	2/23	<b>CIVL4180</b> Sustainable Built Environment (discontinued)	1/20
	<b>CIVL6120</b> Dam Engineering	2	2	2/23	<b>CIVL7225</b> Dam and Embankment Engineering	1/22
	<b>ENVE3150</b> Environmental System Dynamics and Modelling	2	2	2/21	<b>CIVL3150</b> Modelling of Environmental Systems	2/20
	<b>ENVE3160</b> Environmental Phenomena	1	2	1/23	No substitution	
	<b>ENVM3103</b> Regulatory Frameworks for Environmental Management & Planning	1	2		No substitution	
	<b>ENVM3115</b> Climate Change and Environmental Management	1	2		No substitution	
	<b>ENVM3201</b> Catchment Processes & Management	1	2		No substitution	
	<b>ERTH3250</b> Hydrogeology	2	2		No substitution	

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	WATR6105 Integrated Urban Water Management	1	2	1/21	WATR7105 Urban Water Management	1/20
	0 to 4 units from: Civil Engineering Advanced Electives					

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## Civil Engineering with Engineering Minor

Complete 16 units comprising:

8 units for one of the following minors:

Data Science

Computing

Design

and

8 units from Civil Engineering Advanced Electives

✓/X compl.	Minor in Computing (8 units)	Sem offering	#	First offered	Approved substitution	Last offered
	<b>4 units for all: Computing Minor Compulsory Courses</b>					
	<b>CSSE2002</b> Programming in the Large	1,2	2		Course must be completed	
	<b>COMP3506</b> Algorithms and Data Structures	2	2		Course must be completed	
	<b>4 units from: Computing Electives</b>					
	<b>COMP4702</b> Machine Learning	1	2		No substitution	
	<b>COSC2500</b> Numerical Methods in Computational Science	2	2		No substitution	
	<b>COSC3000</b> Visualization, Computer Graphics & Data Analysis	1	2		No substitution	
	<b>COSC3500</b> High Performance Computing	2	2		No substitution	
	<b>INFS1200</b> Introduction to Information Systems	1,2	2		No substitution	
	<b>INFS3208</b> Cloud Computing	2	2		No substitution	
	<b>MATH3202</b> Operations Research & Mathematical Planning	1	2		No substitution	

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✓/X compl.	Minor in Data Science (8 units)	Sem offering	#	First offered	Approved substitution	Last offered
	4 units for all: Data Science Minor Compulsory Courses					
	<b>DATA2001</b> Introduction to Data Science (NEW)	2	2	<b>2/22</b>	Course must be completed	
	<b>INFS1200</b> Introduction to Information Systems	1,2	2		Course must be completed	
	4 units from: Data Science Electives					
	<b>COMP4702</b> Machine Learning	1	2		No substitution	
	<b>INFS2200</b> Relational Database Systems	2	2		No substitution	
	<b>INFS3208</b> Cloud Computing	2	2		No substitution	
	<b>INFS4203</b> Data Mining	2	2		No substitution	
	<b>STAT2003</b> Mathematical Probability	1	2		No substitution	
	<b>STAT2004</b> Statistical Modelling & Analysis	2	2		No substitution	

*Where courses are compulsory in both the specialisation and minor, the compulsory course in the minor must be substituted by courses from Data Science Minor Electives.*

✓/X compl.	Minor in Design (8 units)	Sem offering	#	First offered	Approved substitution	Last offered
	2 units for all: Design Minor Compulsory Courses					
	<b>DSGN1500</b> Design for a Better World	2	2		Course must be completed	
	6 units from: Design Electives					
	<b>DSGN1100</b> Design: Interaction	1	2		No substitution	
	<b>DSGN1200</b> Design: Experience	2	2		No substitution	
	<b>DSGN2100</b> Design: Organisation	1	2		No substitution	
	<b>DSGN2200</b> Design: Environment	2	2		No substitution	
	<b>DSGN3100</b> Design: Infrastructure	1	2		No substitution	

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