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

* This checklist is for the BE(Hons) component ONLY for dual programs with Bachelor of Mathematics and Bachelor of Science

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) 60 units from the BE(Hons) component, 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

*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

✓/X compl.	You must complete (NEW Program requirements)	Sem offering	#	First offered	Approved substitution	Last offered
	8 units for all: Core Courses					
	ENGG1100 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]	
	ENGG1001 Programming for Engineers (NEW) **or** **CSSE1001** Introduction to Software Engineering	1,2	2	**1/21**	Course must be completed	
	MATH1051 Calculus & Linear Algebra I **or** **MATH1071** Advanced Calculus & Linear Algebra I	1,2	2		Course must be completed	
	MATH1052 Multivariate Calculus & Ordinary Differential Equations **or** **MATH1072** 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)	**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 sem 2 in 2024) **or CIVL4516** Design for the Natural Environment	2 2	2		**CIVL4514** Integrated Design or **CIVL4516** 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**	**1/23** **1/23**
	2-4 units from: Civil Engineering Research Courses					
	CIVL4600 Research Project	1,2	2	**1/23**	**CIVL4560** Project (2)	**2/22**

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	CIVL4604 Research Thesis (NEW) **or** **CIVL4606** Research Thesis (NEW)	1,2 2,1	4	**1/23** **2/23**	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					
	CIVL3220 Rock Mechanics (NEW)	2	2	**2/23**	**MINE3121** Mining Geomechanics (discontinued)	**1/22**
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3380 Structural and Steel Design (NEW)	1	2	**1/23**	**CIVL2340** Design of Steel Structures (discontinued)	**2/22**
	CIVL3390 Integrated Structural Design	2	2	**2/23**	**CIVL3350** Integrated Structural Design (discontinued)	**2/22**
	CIVL3420 Sustainable Transport Engineering – Planning and Design	1	2		No substitution	
	CIVL4145 Groundwater Modelling and Management (NEW)	2	2	**2/22**	**CIVL4140** Contaminant Transport Modelling (discontinued)	**1/21**
	CIVL4230 Advanced Soil Mechanics	2	2		No substitution	
	CIVL4270 Geotechnical Investigation & Testing	1	2		No substitution	
	CIVL4280 Applied Rock Mechanics	2	2			
	CIVL4333 Advanced Concrete Design	1	2		No substitution	
	CIVL4334 Design of Timber Structures	2	2		No substitution	
	CIVL4340 Wind Engineering	1	2		No substitution	
	CIVL4450 Traffic Flow Theory and Emerging Technologies	2	2		No substitution	
	CIVL4460 Highway Geometric Design	2	2		**CIVL4460** Road Design	
	CIVL4522 Analytical Methods for the Design of Construction Operations	2	2		No substitution	
	CIVL4525 Sustainable Infrastructure Design (NEW)	2	2	**2/23**	**CIVL4180** Sustainable Built Environment (discontinued)	**1/20**
	CIVL6111 Ocean, Coastal & Estuarine Engineering (NEW)	2	2	**2/23**	**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as 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) *** CIVL4110 may only be used as 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**
	CIVL6210 Dam Engineering (NEW)	2	2	**2/23**	No substitution	

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	CIVL6215 Ground Improvement (NEW)	1	2	**1/23**	No substitution	
	CIVL6220 Tailings Design (NEW)	1	2	**1/23**	No substitution	
	CIVL6250 Underground Structures (NEW)	2	2	**2/23**	No substitution	
	CIVL6360 Advanced Structural Analysis (NEW)	2	2	**2/23**	**CIVL4332** Advanced Structural Analysis (discontinued)	**2/22**
	CIVL6410 Transport Network Modelling (NEW)	1	2	**1/23**	No substitution	
	CIVL6415 Traffic Analysis and Simulation (NEW)	2	2	**2/23**	No substitution	
	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**	No substitution	
	ENVE4610 Engineering the Circular Economy (NEW)	1	2	**1/23**	No substitution	
	FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	
	FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	
	2 units from Program Electives					

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
	CIVL3220 Rock Mechanics (NEW)	2	2	**2/23**	**MINE3121** Mining Geomechanics (discontinued)	**1/22**
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3380 Structural and Steel Design (NEW)	1	2	**1/23**	**CIVL2340** Design of Steel Structures (discontinued)	**2/22**
	CIVL3390 Integrated Structural Design	2	2	**2/23**	**CIVL3350** Integrated Structural Design (discontinued)	**2/22**
	CIVL3420 Sustainable Transport Engineering – Planning and Design	1	2		No substitution	
	CIVL6111 Ocean, Coastal & Estuarine Engineering (NEW)	2	2	**2/23**	**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as 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) *** CIVL4110 may only be used as 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**
	CIVL4230 Advanced Soil Mechanics	2	2		No substitution	
	CIVL4270 Geotechnical Investigation & Testing	1	2		No substitution	
	CIVL4280 Applied Rock Mechanics	2	2		**CIVL4280** Advanced Rock Mechanics	
	CIVL4333 Advanced Concrete Design	1	2		No substitution	
	CIVL4334 Design of Timber Structures	2	2		No substitution	
	CIVL4340 Wind Engineering	1	2		No substitution	
	CIVL4450 Traffic Flow Theory and Emerging Technologies	2	2		No substitution	
	CIVL4460 Highway Geometric Design	2	2		**CIVL4460** Road Design	
	CIVL4522 Analytical Methods for the Design of Construction Operations	2	2		No substitution	
	CIVL4525 Sustainable Infrastructure Design (NEW)	2	2	**2/23**	**CIVL4180** Sustainable Built Environment (discontinued)	**1/20**

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	CIVL6210 Dam Engineering (NEW)	2	2	**2/23**	No substitution	
	CIVL6215 Ground Improvement (NEW)	1	2	**1/23**	No substitution	
	CIVL6220 Tailings Design (NEW)	1	2	**1/23**	No substitution	
	CIVL6250 Underground Structures (NEW)	2	2	**2/23**	No substitution	
	CIVL6360 Advanced Structural Analysis (NEW)	2	2	**2/23**	**CIVL4332** Advanced Structural Analysis (discontinued)	**2/22**
	CIVL6410 Transport Network Modelling (NEW)	1	2	**1/23**	No substitution	
	CIVL6415 Traffic Analysis and Simulation (NEW)	2	2	**2/23**	No substitution	
	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**	No substitution	
	ENVE4610 Engineering the Circular Economy (NEW)	1	2	**1/23**	No substitution	
	FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	
	FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	
	0 to 8 units from: Civil Engineering Breadth Electives					
	MATH2001 Calculus and Linear Algebra II	1,2,S	2		**MATH2000** Calculus and Linear Algebra II (discontinued)	

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

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

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

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✓/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					
	CIVL3420 Sustainable Transport Engineering – Planning and Design	1	2		No substitution	
	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)	**1/20**
	CIVL6111 Ocean, Coastal & Estuarine Engineering (NEW)	2	2	**2/23**	**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	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**	**2/22**
	CIVL6121 Environmental Hydraulics and Flood Management (NEW)	1	2	**1/23**	**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	ENGY4000 Energy Systems	1	2		No substitution	
	ENVM3103 Regulatory Frameworks for Environmental Management & Planning	1	2		No substitution	
	WATR6103 Advanced Wastewater and Biosolids Treatment	2	2		**CHEE4012** Industrial Wastewater & Solid Waste Management (discontinued)	
	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 Breadth Electives; and/or b. Chemical Engineering Advanced Electives; and/or c. Civil Engineering Advanced Electives.					
	Environmental Engineering Breadth Electives Complete 0 to 4 units from the following:					
	ENVM2100 Foundations of Sustainable Development	2	2		No substitution	
	ENVM3201 Catchment Processes & Management	1	2		No substitution	
	ERTH1501 Earth Processes and Geological Materials for Engineers	1	2		No substitution	
	ERTH2004 Structural Geology	2	2		No substitution	
	ERTH3250 Hydrogeology	2	2		No substitution	
	GEOM1000 Fundamentals of Geographic Information and Technologies	2	2		No substitution	
	GEOM2001 Geographical Information Systems	1	2		No substitution	
	GEOS1100 Environment & Society	1,2	2		No substitution	
	GEOS2100 Environmental Systems	1	2		No substitution	
	GEOS3102 Global Change: Problems and Prospects	2	2		No substitution	

✓/X compl.	Major in General Civil Engineering (16 units) **(discontinued – follow no major option)**	Sem offering	#	First offered	Approved substitution	Last offered
	8 units for: General Civil Engineering Compulsory Courses					
	CIVL3420 Sustainable Transport Engineering – Planning and Design	1	2		No substitution	
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3380 Structural and Steel Design (NEW)	1	2	**1/23**	**CIVL2340** Design of Steel Structures (discontinued)	**2/22**
	CIVL6121 Environmental Hydraulics and Flood Management (NEW)	2	2	**2/23**	**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	4 to 8 units: from General Civil Engineering Electives					
	ERTH1501 Earth Processes and Geological Materials for Engineers	1	2		No substitution	
	CIVL3390 Integrated Structural Design	2	2	**2/23**	**CIVL3350** Integrated Structural Design	**2/22**
	CIVL6111 Ocean, Coastal & Estuarine Engineering (NEW)	2	2	**2/23**	**CIVL4110** Coastal & Estuarine Engineering (discontinued)	**2/22**
	CIVL4145 Groundwater Modelling and Management (NEW)	2	2	**2/22**	**CIVL4140** Contaminant Transport Modelling (discontinued)	**1/21**
	CIVL4270 Geotechnical Investigations	1	2		No substitution	
	CIVL4333 Advanced Concrete Design	1	2		No substitution	
	CIVL4334 Design of Timber Structures	2	2		No substitution	
	CIVL4340 Wind Engineering	1	2		No substitution	
	CIVL4450 Traffic Flow Theory and Emerging Technologies	2	2		No substitution	
	CIVL4460 Highway Geometric Design	2	2		**CIVL4460** Road Design	
	CIVL4525 Sustainable Infrastructure Design (NEW)	2	2	**2/23**	**CIVL4180** Sustainable Built Environment (discontinued)	**1/20**
	0 to 4 units from: Civil Engineering Advanced Electives					

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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					
	CIVL3220 Rock Mechanics (NEW)	2	2	**2/23**	**MINE3121** Mining Geomechanics (discontinued)	**1/22**
	CIVL4230 Advanced Soil Mechanics	2	2		Course must be completed	
	CIVL4270 Geotechnical Investigations	1	2		Course must be completed	
	CIVL6215 Ground Improvement (NEW)	1	2	**1/23**	No substitution	
	2 to 8 units from: Geotechnical Engineering Electives					
	CIVL4280 Applied Rock Mechanics	2	2		Course must be completed	
	CIVL6210 Dam Engineering (NEW)	2	2	**2/23**	No substitution	
	CIVL6220 Tailings Design (NEW)	1	2	**1/23**	**MINE4000** Mine Waste Management & Landform Design (Discontinued)	**1/22**
	CIVL6250 Underground Structures (NEW)	2	2	**2/23**	No substitution	
	0 to 4 units from: Geotechnical Engineering Breadth Electives					
	CIVL4340 Wind Engineering	1	2	**1/21**	No substitution	
	CIVL4460 Highway Geometric Design	2	2		**CIVL4460** Road Design	
	CIVL4525 Sustainable Infrastructure Design (NEW)	2	2	**2/23**	**CIVL4180** Sustainable Built Environment (discontinued)	**1/20**
	CIVL6111 Ocean, Coastal & Estuarine Engineering (NEW)	2	2	**2/23**	**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as 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**	**2/22**
	CIVL6121 Environmental Hydraulics and Flood Management (NEW)	2	2	**2/23**	**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	ERTH3250 Hydrogeology	2	2		No substitution	
	FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	
	0 to 4 units from: Civil Engineering Advanced Electives					

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✓/X compl.	Major in Mining Engineering (16 units)	Sem offering	#	First offered	Approved substitution	Last offered
	12 units for: Mining Engineering Compulsory Courses					
	MINE3110 Integrated Orebody Knowledge (NEW)	1	2	**1/23**	**MINE3120** Resource Estimation (discontinued)	**1/22**
	MINE3122 Mining Systems & Automation	1	2		**MINE3122** Mining Systems	
	MINE3123 Mine Planning & Sustainability	2	2		**MINE3123** Mine Planning	
	MINE3129 Applied Mining Geomechanics (NEW)	1	2	**1/23**	**MINE4120** Mine Geotechnical Engineering (discontinued)	**1/22**
	MINE4124 Mine Design, Feasibility and Sustainability	2	2		**MINE4124** Hard Rock Mine Design & Feasibility	
	MINE4129 Mine Process Optimisation (NEW)	1	2	**1/23**	**MINE3125** 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					
	CIVL3340 Structural Analysis	1	2		Course must be completed	
	CIVL3380 Structural and Steel Design (NEW)	1	2	**1/23**	**CIVL2340** Design of Steel Structures (discontinued)	**2/23**
	CIVL3390 Integrated Structural Design	2	2	**2/23**	**CIVL3350** Integrated Structural Design (discontinued)	**2/22**
	CIVL4333 Advanced Concrete Design	1	2		Course must be completed	
	CIVL4334 Design of Timber Structures	2	2		Course must be completed	
	4 to 6 units from: Structural Engineering Electives					
	CIVL4230 Advanced Soil Mechanics	2	2	**2/21**	No substitution	
	CIVL4340 Wind Engineering	1	2	**1/21**	No substitution	
	CIVL4522 Analytical methods for the Design of Construction Operations	2	2	**2/21**	No substitution	

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	CIVL4525 Sustainable Infrastructure Design (NEW)	2	2	**2/23**	**CIVL4180** Sustainable Built Environment (discontinued)	**1/20**
	CIVL6360 Advanced Structural Analysis (NEW)	2	2	**2/23**	**CIVL4332** Advanced Structural Analysis (discontinued)	**2/22**
	FIRE4610 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					
	CIVL3420 Sustainable Transport Engineering – Planning and Design	1	2		Course must be completed	
	CIVL4450 Traffic Flow Theory and Emerging Technologies	2	2	**2/21**	No substitution	
	CIVL4460 Highway Geometric Design	2	2		**CIVL4460** Road Design	
	CIVL6410 Transport Network Modelling (NEW)	1	2	**1/23**	Course must be completed	
	CIVL6415 Traffic Analysis and Simulation (NEW)	2	2	**2/23**	Course must be completed	
	4 to 6 units from: Civil Engineering Advanced Electives					

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✓/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					
	CIVL4340 Wind Engineering	1	2		Course must be completed	
	CIVL6111 Ocean, Coastal & Estuarine Engineering (NEW)	2	2	**2/23**	**CIVL4110** Coastal & Estuarine Engineering (discontinued)	**2/21**
	CIVL6112 Hydro- and Marine Power Renewable Energy Systems (NEW)	2	2	**2/23**	Course must be completed	
	CIVL6121 Environmental Hydraulics and Flood Management (NEW)	1	2	**1/23**	**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	4-8 units from: Water and Marine Engineering Electives					
	CIVL3420 Sustainable Transport Engineering – Planning and Design	1	2		No substitution	
	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)	**1/20**
	CIVL6210 Dam Engineering (NEW)	2	2	**2/23**	No substitution	
	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**	No substitution	
	ENVM3103 Regulatory Frameworks for Environmental Management & Planning	1	2		No substitution	
	ENVM3115 Climate Change and Environmental Management	1	2		No substitution	
	ENVM3201 Catchment Processes & Management	1	2		No substitution	
	ERTH3250 Hydrogeology	2	2		No substitution	
	WATR6105 Integrated Urban Water Management	1	2	**1/21**	No substitution	
	0 to 4 units from: Civil Engineering Advanced Electives					

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

Checked by (Faculty: Name and Date): _____

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
	4 units for all: Computing Minor Compulsory Courses					
	CSSE2002 Programming in the Large	1,2	2		Course must be completed	
	COMP3506 Algorithms and Data Structures	2	2		Course must be completed	
	4 units from: Computing Electives					
	COMP4702 Machine Learning	1	2		No substitution	
	COSC2500 Numerical Methods in Computational Science	2	2		No substitution	
	COSC3000 Visualization, Computer Graphics & Data Analysis	1	2		No substitution	
	COSC3500 High Performance Computing	2	2		No substitution	
	INFS1200 Introduction to Information Systems	1,2	2		No substitution	
	INFS3208 Cloud Computing	2	2		No substitution	
	MATH3202 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					
	DATA2001 Introduction to Data Science (NEW)	2	2	**2/22**	Course must be completed	
	INFS1200 Introduction to Information Systems	1,2	2		Course must be completed	
	4 units from: Data Science Electives					
	COMP4702 Machine Learning	1	2		No substitution	
	INFS2200 Relational Database Systems	2	2		No substitution	
	INFS3208 Cloud Computing	2	2		No substitution	
	INFS4203 Data Mining	2	2		No substitution	
	STAT2003 Mathematical Probability	1	2		No substitution	
	STAT2004 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					
	DSGN1500 Design for a Better World	2	2		Course must be completed	
	6 units from: Design Electives					
	DSGN1100 Design: Interaction	1	2		No substitution	
	DSGN1200 Design: Experience	2	2		No substitution	
	DSGN2100 Design: Organisation	1	2		No substitution	
	DSGN2200 Design: Environment	2	2		No substitution	
	DSGN3100 Design: Infrastructure	1	2		No substitution	

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Checked by (Faculty: Name and Date): _____