CHECKLIST Bachelor of Engineering (Honours) – Civil Engineering Specialisation: Transition to new program (commencing 2024)

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

Important Notes:

- The information contained in this document is intended as general advice only. Students must follow the program rules & requirements listed on the Programs and Courses Website relevant to the year they commence. This planner must be used in conjunction with your program duration course list and program rules.
- Students need to check future course offerings, prerequisites, incompatibilities and restrictions for all courses as these are subject to change.
- Students cannot take courses that are incompatible with courses already counted towards their program, and cannot count the same course twice.
- Please view the Bachelor of Computer Science transition checklist for the requirements for the BCompSc Core, BCompSc Major and No Major Options

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

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

b. 16 units for Civil Engineering Specialisation No Major option

✓/x compl.	BE(Hons) Core Courses (8 units)	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 **or** **CSSE1001** Introduction to Software Engineering	1,2	2		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	

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Specialisation in Civil Engineering

Complete 36 units comprising:

i. 28 units for all Civil Engineering Compulsory Courses, and
ii. 2 to 4 units from Civil Engineering Research Courses, and
iii. 2 to 4 units from Civil Engineering Advanced Elective Courses, and
iv. 2 units from BE(Hons) Program Elective Courses

✓/X compl.	Civil Engineering Specialisation (36 units)	Sem offering	#	First offered	Approved substitution	Last offered
	28 units for all Compulsory Courses					
	ENGG1700 Statics & Materials	1,2	2		**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 Soil Mechanics	2	2		Course must be completed	
	CIVL2330 Structural Mechanics	1	2		Course must be completed	
	CIVL2420 Fundamentals of Transport Engineering	2	2		**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	2	2		**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		**CIVL2360** Design of Concrete Structures (discontinued)	**2/21**
	CIVL3520 Project Management and Professional Practice	2	2		**CIVL3510** Project Management with Building Information Modelling (discontinued)	**2/22**
	CIVL3530 Data Analytics in Civil Engineering	1	2		Course must be completed	
	CIVL4170 Risk Analysis and Assessment	1	2		Course must be completed	
	CIVL4516 Integrated Design for Environmental Environment **Or** **CIVL4518** Integrated Design for the Built Environment	2 2	2 2	**2/24**	**CIVL4516** Design for the Natural Environment	

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	2 to 4 units from Civil Engineering Research Courses					
	CIVL4600 Research Project	1,2	2		No substitution	
	CIVL4604 Research Thesis	1	2		No substitution	
	CIVL4606 Research Thesis	2	2		No substitution	

	2 to 4 units from Civil Engineering Advanced Elective Courses					
	CIVL3220 Rock Mechanics	1	2		No substitution	
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3380 Structural and Steel Design	1	2		**CIVL2340** Design of Steel Structures (discontinued)	**2/22**
	CIVL3390 Integrated Structural Design	2	2		No substitution	
	CIVL3430 Sustainable Transport Engineering	1	2	**1/24**	No substitution	
	CIVL4145 Groundwater Modelling and Management	2	2		**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		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 Road Design	2	2		No substitution	
	CIVL4522 Analytical Methods for the Design of Construction Operations	2	2		No substitution	
	CIVL4525 Sustainable Infrastructure Design	1	2		No substitution	
	CIVL6111 Ocean, Coastal & Estuarine Engineering	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**

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	CIVL6112 Hydro- and Marine Power Renewable Energy Systems	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6121 Environmental Hydraulics and Flood Management	1	2		**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	CIVL6210 Dam Engineering	2	2		No substitution	
	CIVL6215 Ground Improvement	1	2		**CIVL7215** Ground Improvement & Remediation Technologies (discontinued)	**1/23**
	CIVL6220 Tailings Design	1	2		No substitution	
	CIVL6250 Underground Structures	2	2		No substitution	
	CIVL6360 Advanced Structural Analysis	2	2		**CIVL4332** Advanced Structural Analysis (discontinued)	**2/22**
	CIVL6410 Transport Network Modelling	1	2		No substitution	
	CIVL6415 Traffic Analysis and Simulation	2	2		No substitution	
	ENVE3150 Environmental System Dynamics and Modelling	2	2		**CIVL3150** Modelling of Environmental Systems (discontinued)	**2/20**
	ENVE3160 Environmental Phenomena	1	2		No substitution	
	ENVE4610 Engineering the Circular Economy	1	2		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 BE(Hons) Program Elective Courses

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Civil Engineering No Major Option

Complete 16 units comprising:

i. 8 to 16 units from Civil Engineering Advanced Elective Courses, and
ii. 0 to 8 units from Civil Engineering Breadth Elective Courses, and
iii. 0 to 4 units from BE(Hons) Program Elective Courses, and
iv. 0 to 4 units from General Elective Courses

✓/x compl.	Civil Engineering No Major (16 units)	Sem offering	#	First offered	Approved substitution	Last offered
	8 to 16 units from Civil Engineering Advanced Elective Courses					
	CIVL3220 Rock Mechanics	1	2		No substitution	
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3380 Structural and Steel Design	1	2		**CIVL2340** Design of Steel Structures (discontinued)	**2/22**
	CIVL3390 Integrated Structural Design	2	2		No substitution	
	CIVL3430 Sustainable Transport Engineering	1	2	**1/24**	No substitution	
	CIVL4145 Groundwater Modelling and Management	2	2		**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		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 Road Design	2	2		No substitution	
	CIVL4522 Analytical Methods for the Design of Construction Operations	2	2		No substitution	
	CIVL4525 Sustainable Infrastructure Design	1	2		No substitution	
	CIVL6111 Ocean, Coastal & Estuarine Engineering	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6112 Hydro- and Marine Power Renewable Energy Systems	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**

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	CIVL6121 Environmental Hydraulics and Flood Management	1	2		**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	CIVL6210 Dam Engineering	2	2		No substitution	
	CIVL6215 Ground Improvement	1	2		**CIVL7215** Ground Improvement & Remediation Technologies (discontinued)	**1/23**
	CIVL6220 Tailings Design	1	2		No substitution	
	CIVL6250 Underground Structures	2	2		No substitution	
	CIVL6360 Advanced Structural Analysis	2	2		**CIVL4332** Advanced Structural Analysis (discontinued)	**2/22**
	CIVL6410 Transport Network Modelling	1	2		No substitution	
	CIVL6415 Traffic Analysis and Simulation	2	2		No substitution	
	ENVE3150 Environmental System Dynamics and Modelling	2	2		**CIVL3150** Modelling of Environmental Systems (discontinued)	**2/20**
	ENVE3160 Environmental Phenomena	1	2		No substitution	
	ENVE4610 Engineering the Circular Economy	1	2		No substitution	
	FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	

	0 to 8 units from Civil Engineering Breadth Elective Courses					
	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: o Environmental 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.***					

0 to 4 units from BE(Hons) Program Elective Courses

0 to 4 units from General Elective Courses

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Environmental Engineering Major Option

Complete 16 units comprising:

i. 8 units for all Environmental Engineering Compulsory Courses, and
ii. 4 to 8 units from Environmental Engineering Elective Courses, and
iii. 0 to 4 units from Environmental Engineering Research Elective Courses, and
iv. 0 to 4 units from Environmental Engineering Breadth Elective Courses, and
v. 0 to 4 units from Chemical Engineering Advanced Elective Courses, and
vi. 0 to 4 units from Civil Engineering Advanced Elective Courses

✓/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		**CHEE2501** Environmental Systems Engineering I: Processes (discontinued)	**1/20**
	ENVE3150 Environmental System Dynamics and Modelling	2	2		**CIVL3150** Modelling of Environmental Systems (discontinued)	**2/20**
	ENVE3160 Environmental Phenomena	1	2		Course must be completed	
	ENVE4610 Engineering the Circular Economy	1	2		Course must be completed	
	4 to 8 units from Environmental Engineering Elective Courses					
	CIVL3430 Sustainable Transport Engineering	1	2	**1/24**	No substitution	
	CIVL4145 Groundwater Modelling and Management	2	2		**CIVL4140** Contaminant Transport Modelling (discontinued)	**1/21**
	CIVL4525 Sustainable Infrastructure Design	1	2		No substitution	
	CIVL6111 Ocean, Coastal & Estuarine Engineering	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6112 Hydro- and Marine Power Renewable Energy Systems	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6121 Environmental Hydraulics and Flood Management	1	2		**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			
	WATR6105 Integrated Urban Water Management	1	2		**WATR7105** Integrated Urban Water Management (discontinued)	**1/20**

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	WATR6106 Emerging Issues in the Urban Water Cycle and Public Water	1	2		**WATR7106** Emerging Issues in the Urban Water Cycle and Public Water (discontinued)	**1/20**
	WATR6108 Advanced Unit Operations in Water Management	1	2		**WATR7108** Advanced Unit Operations in Water Management (discontinued)	**1/20**
	WATR6109 Drinking Water Supply: Source, Treatment and Distribution	1	2		**WATR7109** Drinking Water Supply: Source, Treatment and Distribution (discontinued)	**1/20**

	0 to 4 units from Environmental Engineering Research Elective Courses					
	CHEE4006 Research Project	1	2		No substitution	
	CHEE4007 Research Project	2	2		No substitution	
	CHEE4026 Research Thesis **or** **CHEE4027** Research Thesis	1 2	4 4		No substitution	

	0 to 4 units from Environmental Engineering Breadth Elective Courses					
	CIVL2135 Introduction to Environmental Engineering	1	2		No substitution	
	ENVM2100 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 Groundwater Processes and Resources	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	

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	0 to 4 units from Chemical Engineering Advanced Elective Courses					
	BIOE3001 Quantitative Methods in Biomedical Engineering	2	2		No substitution	
	BIOE4020 Bioprocess Engineering	1	2		No substitution	
	BIOE6028 Metabolic Engineering	2	2		**CHEE4028** Metabolic Engineering (discontinued)	**2/20**
	BIOE6034 Cell and Tissue Engineering	1	2		**CHEE4034** Cell & Tissue Engineering (discontinued)	**1/20**
	BIOE4305 Biomaterials: Materials in Medicine	2	2		**CHEE4305** Biomaterials: Materials in Medicine (discontinued)	**2/20**
	CHEE3008 Special Topics C	1,2	2		No substitution	
	CHEE3301 Polymer Engineering	1	2		No substitution	
	CHEE4003 Special Topics A	2	2		No substitution	
	CHEE4009 Transport Phenomena	1	2		No substitution	
	CHEE4012 Industrial Wastewater & Solid Waste Management	2	2		No substitution	
	CHEE4020 Bioprocess Engineering	1	2		No substitution	
	CHEE4022 Principles of Adsorption	2	2		No substitution	
	CHEE4303 Interface and Colloid Science and Engineering	2	2		No substitution	
	ENGG3500 Reservoir Engineering	2	2		No substitution	
	ENGY4000 Energy Systems	1	2		No substitution	
	ENVE3150 Environmental Systems Dynamics and Modelling	2	2		No substitution	
	ENVE3160 Environmental Phenomena	1	2		No substitution	
	ENVE4610 Engineering the Circular Economy	1	2	**1/24**	No substitution	
	MATE6301 Nanomaterials	2	2		**CHEE4301** Nanomaterials (discontinued)	**2/20**
	MATE4302 Electrochemistry and Corrosion	2	2		**CHEE4302** Electrochemistry & Corrosion (discontinued)	**2/20**
	MECH4304 Net Shape Manufacturing	1	2		No substitution	
	METL6204 Hydrometallurgy and Electrometallurgy	1	2		No substitution	

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	METL6212 Pyrometallurgy	1,2	2		No substitution	
	WATR6103 Advanced Wastewater and Biosolids Treatment	2	2		No substitution	

	0 to 4 units from Civil Engineering Advanced Elective Courses					
	CIVL3220 Rock Mechanics	1	2		No substitution	
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3380 Structural and Steel Design	1	2		**CIVL2340** Design of Steel Structures (discontinued)	**2/22**
	CIVL3390 Integrated Structural Design	2	2		No substitution	
	CIVL3430 Sustainable Transport Engineering	1	2	**1/24**	No substitution	
	CIVL4145 Groundwater Modelling and Management	2	2		**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		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		No substitution	
	CIVL4522 Analytical Methods for the Design of Construction Operations	2	2		No substitution	
	CIVL4525 Sustainable Infrastructure Design	1	2		No substitution	
	CIVL6111 Ocean, Coastal & Estuarine Engineering	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**

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	CIVL6112 Hydro- and Marine Power Renewable Energy Systems	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6121 Environmental Hydraulics and Flood Management	1	2		**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	CIVL6210 Dam Engineering	2	2		No substitution	
	CIVL6215 Ground Improvement	1	2		**CIVL7215** Ground Improvement & Remediation Technologies (discontinued)	**1/23**
	CIVL6220 Mine Waste Management	1	2		No substitution	
	CIVL6250 Underground Structures	2	2		No substitution	
	CIVL6360 Advanced Structural Analysis	2	2		**CIVL4332** Advanced Structural Analysis (discontinued)	**2/22**
	CIVL6410 Transport Network Modelling	1	2		No substitution	
	CIVL6415 Traffic Analysis and Simulation	2	2		No substitution	
	ENVE3150 Environmental System Dynamics and Modelling	2	2		**CIVL3150** Modelling of Environmental Systems (discontinued)	**2/20**
	ENVE3160 Environmental Phenomena	1	2		No substitution	
	ENVE4610 Engineering the Circular Economy	1	2		No substitution	
	FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	
	FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	

Geotechnical Engineering Major Option

Complete 16 units comprising:

i. 8 units for all Geotechnical Engineering Compulsory Courses, and
ii. 2 to 8 units from Geotechnical Engineering Elective Courses, and
iii. 0 to 4 units from Geotechnical Engineering Breadth Elective Courses, and
iv. 0 to 4 units from Civil Engineering Advanced Elective Courses

✓/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	1	2		Course must be completed	
	CIVL4230 Advanced Soil Mechanics	2	2		Course must be completed	
	CIVL4270 Geotechnical Investigations	1	2		Course must be completed	
	CIVL6215 Ground Improvement	1	2		**CIVL7215** Ground Improvement & Remediation Technologies (discontinued)	**1/23**
	2 to 8 units from Geotechnical Engineering Elective Courses					
	CIVL4280 Applied Rock Mechanics	2	2		No substitution	
	CIVL6250 Underground Structures	2	2		No substitution	
	CIVL6210 Dam Engineering	2	2		No substitution	
	CIVL6220 Tailings Design	1	2		No substitution	
	0 to 4 units from Geotechnical Engineering Breadth Elective Courses					
	CIVL4460 Highway Geometric Design	2	2		**CIVL4460** Road Design	
	ERTH3250 Hydrogeology	2	2		No substitution	
	MINE3129 Applied Mining Geomechanics	1	2		No substitution	
	CIVL4340 Wind Engineering	1	2		No substitution	
	CIVL4525 Sustainable Infrastructure Design	1	2		No substitution	

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	CIVL6111 Ocean, Coastal & Estuarine Engineering	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6112 Hydro- and Marine Power Renewable Energy Systems	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6121 Environmental Hydraulics and Flood Management	1	2		**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	

	0 to 4 units from Civil Engineering Advanced Elective Courses					
	CIVL3220 Rock Mechanics	1	2		No substitution	
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3380 Structural and Steel Design	1	2		**CIVL2340** Design of Steel Structures (discontinued)	**2/22**
	CIVL3390 Integrated Structural Design	2	2		No substitution	
	CIVL3430 Sustainable Transport Engineering	1	2	**1/24**	No substitution	
	CIVL4145 Groundwater Modelling and Management	2	2		**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		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		No substitution	
	CIVL4522 Analytical Methods for the Design of Construction Operations	2	2		No substitution	

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	CIVL4525 Sustainable Infrastructure Design	1	2		No substitution	
	CIVL6111 Ocean, Coastal & Estuarine Engineering	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6112 Hydro- and Marine Power Renewable Energy Systems	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6121 Environmental Hydraulics and Flood Management	1	2		**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	CIVL6210 Dam Engineering	2	2		No substitution	
	CIVL6215 Ground Improvement	1	2		**CIVL7215** Ground Improvement & Remediation Technologies (discontinued)	**1/23**
	CIVL6220 Mine Waste Management	1	2		No substitution	
	CIVL6250 Underground Structures	2	2		No substitution	
	CIVL6360 Advanced Structural Analysis	2	2		**CIVL4332** Advanced Structural Analysis (discontinued)	**2/22**
	CIVL6410 Transport Network Modelling	1	2		No substitution	
	CIVL6415 Traffic Analysis and Simulation	2	2		No substitution	
	ENVE3150 Environmental System Dynamics and Modelling	2	2		**CIVL3150** Modelling of Environmental Systems (discontinued)	**2/20**
	ENVE3160 Environmental Phenomena	1	2		No substitution	
	ENVE4610 Engineering the Circular Economy	1	2		No substitution	
	FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	
	FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	

Mining Engineering Major Option

Complete 16 units comprising:

i. 12 units for all Mining Engineering Compulsory Courses, and

ii. 4 units from Mining Engineering Courses for Civil Engineers

✓/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	1	2		**MINE3120** Resource Estimation (discontinued)	**1/22**
	MINE3122 Mining Systems & Automation	1	2		**MINE3122** Mining Systems	
	MINE3123 Mine Planning & Sustainability	2	2		**MINE3123** Mine Planning	
	METL3129 Applied Mining Geomechanics	1	2		**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	1	2		**MINE3125** Explosives and Blasting Engineering (discontinued)	**1/22**

	4 units for Mining Engineering Courses for Civil Engineers only					
	CIVL3220 Rock Mechanics	1	2		No substitution	
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3380 Structural and Steel Design	1	2		**CIVL2340** Design of Steel Structures (discontinued)	**2/22**
	CIVL3390 Integrated Structural Design	2	2		No substitution	
	CIVL3430 Sustainable Transport Engineering	1	2	**1/24**	No substitution	
	CIVL4145 Groundwater Modelling and Management	2	2		**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		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	

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	CIVL4450 Traffic Flow Theory and Emerging Technologies	2	2		No substitution	
	CIVL4460 Highway Geometric Design	2	2		No substitution	
	CIVL4522 Analytical Methods for the Design of Construction Operations	2	2		No substitution	
	CIVL4525 Sustainable Infrastructure Design	1	2		No substitution	
	CIVL6111 Ocean, Coastal & Estuarine Engineering	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6112 Hydro- and Marine Power Renewable Energy Systems	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6121 Environmental Hydraulics and Flood Management	1	2		**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	CIVL6210 Dam Engineering	2	2		No substitution	
	CIVL6215 Ground Improvement	1	2		**CIVL7215** Ground Improvement & Remediation Technologies (discontinued)	**1/23**
	CIVL6220 Mine Waste Management	1	2		No substitution	
	CIVL6250 Underground Structures	2	2		No substitution	
	CIVL6360 Advanced Structural Analysis	2	2		**CIVL4332** Advanced Structural Analysis (discontinued)	**2/22**
	CIVL6410 Transport Network Modelling	1	2		No substitution	
	CIVL6415 Traffic Analysis and Simulation	2	2		No substitution	
	ENVE3150 Environmental System Dynamics and Modelling	2	2		**CIVL3150** Modelling of Environmental Systems (discontinued)	**2/20**
	ENVE3160 Environmental Phenomena	1	2		No substitution	
	ENVE4610 Engineering the Circular Economy	1	2		No substitution	
	FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	
	FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	

Structural Engineering Major Option

Complete 16 units comprising:

i. 10 units for all Structural Engineering Compulsory Courses, and
ii. 4 to 6 units from Structural Engineering Elective Courses, and
iii. 0 to 2 units from Civil Engineering Advanced Elective Courses

✓/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	1	2		**CIVL2340** Design of Steel Structures (discontinued)	**2/23**
	CIVL3390 Integrated Structural Design	2	2		Course must be completed	
	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 Elective Courses					
	CIVL4230 Advanced Soil Mechanics	2	2		No substitution	
	CIVL4340 Wind Engineering	1	2		No substitution	
	CIVL4522 Analytical methods for the Design of Construction Operations	2	2		No substitution	
	CIVL4525 Sustainable Infrastructure Design	1	2		No substitution	
	CIVL6360 Advanced Structural Analysis	2	2		**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 Elective Courses					
	CIVL3220 Rock Mechanics	1	2		No substitution	
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3380 Structural and Steel Design	1	2		**CIVL2340** Design of Steel Structures (discontinued)	**2/22**

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	CIVL3390 Integrated Structural Design	2	2		No substitution	
	CIVL3430 Sustainable Transport Engineering	1	2	**1/24**	No substitution	
	CIVL4145 Groundwater Modelling and Management	2	2		**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		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		No substitution	
	CIVL4522 Analytical Methods for the Design of Construction Operations	2	2		No substitution	
	CIVL4525 Sustainable Infrastructure Design	1	2		No substitution	
	CIVL6111 Ocean, Coastal & Estuarine Engineering	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6112 Hydro- and Marine Power Renewable Energy Systems	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6121 Environmental Hydraulics and Flood Management	1	2		**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	CIVL6210 Dam Engineering	2	2		No substitution	
	CIVL6215 Ground Improvement	1	2		**CIVL7215** Ground Improvement & Remediation Technologies (discontinued)	**1/23**
	CIVL6220 Mine Waste Management	1	2		No substitution	
	CIVL6250 Underground Structures	2	2		No substitution	
	CIVL6360 Advanced Structural Analysis	2	2		**CIVL4332** Advanced Structural Analysis (discontinued)	**2/22**

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	CIVL6410 Transport Network Modelling	1	2		No substitution	
	CIVL6415 Traffic Analysis and Simulation	2	2		No substitution	
	ENVE3150 Environmental System Dynamics and Modelling	2	2		**CIVL3150** Modelling of Environmental Systems (discontinued)	**2/20**
	ENVE3160 Environmental Phenomena	1	2		No substitution	
	ENVE4610 Engineering the Circular Economy	1	2		No substitution	
	FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	
	FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	

Transport Engineering Major Option

Complete 16 units comprising:

i. 10 units for all Transport Engineering Compulsory Courses, and

ii. 6 units from Civil Engineering Advanced Elective Courses

✓/x compl.	Major in Transport Engineering (16 units)	Sem offering	#	First offered	Approved substitution	Last offered
	10 units for all Transport Engineering Compulsory Courses					
	CIVL3430 Sustainable Transport Engineering	1	2	**1/24**	Course must be completed	
	CIVL4450 Traffic Flow Theory and Emerging Technologies	2	2		Course must be completed	
	CIVL4460 Highway Geometric Design	2	2		**CIVL4460** Road Design	
	CIVL6410 Transport Network Modelling	1	2		Course must be completed	
	CIVL6415 Traffic Analysis and Simulation	2	2		Course must be completed	

	6 units from Civil Engineering Advanced Elective Courses					
	CIVL3220 Rock Mechanics	1	2		No substitution	
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3380 Structural and Steel Design	1	2		**CIVL2340** Design of Steel Structures (discontinued)	**2/22**
	CIVL3390 Integrated Structural Design	2	2		No substitution	
	CIVL3430 Sustainable Transport Engineering	1	2	**1/24**	No substitution	
	CIVL4145 Groundwater Modelling and Management	2	2		**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		No substitution	
	CIVL4333 Advanced Concrete Design	1	2		No substitution	
	CIVL4334 Design of Timber Structures	2	2		No substitution	

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	CIVL4340 Wind Engineering	1	2		No substitution	
	CIVL4450 Traffic Flow Theory and Emerging Technologies	2	2		No substitution	
	CIVL4460 Highway Geometric Design	2	2		No substitution	
	CIVL4522 Analytical Methods for the Design of Construction Operations	2	2		No substitution	
	CIVL4525 Sustainable Infrastructure Design	1	2		No substitution	
	CIVL6111 Ocean, Coastal & Estuarine Engineering	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6112 Hydro- and Marine Power Renewable Energy Systems	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6121 Environmental Hydraulics and Flood Management	1	2		**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	CIVL6210 Dam Engineering	2	2		No substitution	
	CIVL6215 Ground Improvement	1	2		**CIVL7215** Ground Improvement & Remediation Technologies (discontinued)	**1/23**
	CIVL6220 Mine Waste Management	1	2		No substitution	
	CIVL6250 Underground Structures	2	2		No substitution	
	CIVL6360 Advanced Structural Analysis	2	2		**CIVL4332** Advanced Structural Analysis (discontinued)	**2/22**
	CIVL6410 Transport Network Modelling	1	2		No substitution	
	CIVL6415 Traffic Analysis and Simulation	2	2		No substitution	
	ENVE3150 Environmental System Dynamics and Modelling	2	2		**CIVL3150** Modelling of Environmental Systems (discontinued)	**2/20**
	ENVE3160 Environmental Phenomena	1	2		No substitution	
	ENVE4610 Engineering the Circular Economy	1	2		No substitution	
	FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	
	FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	

Water and Marine Engineering Major Option

Complete 16 units comprising:

i. 8 units for all Water and Marine Engineering Compulsory Courses, and
ii. 4 to 8 units from Water and Marine Engineering Elective Courses, and
iii. 0 to 4 units from Civil Engineering Advanced Elective Courses

✓/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					
	CIVL6121 Environmental Hydraulics and Flood Management	1	2		**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	CIVL6111 Ocean, Coastal & Estuarine Engineering	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued)	**2/21**
	CIVL6112 Hydro- and Marine Power Renewable Energy Systems	2	2		Course must be completed	
	CIVL4340 Wind Engineering	1	2		Course must be completed	
	4 to 8 units from Water and Marine Engineering Elective Courses					
	CIVL3430 Sustainable Transport Engineering	1	2	**1/24**	No substitution	
	CIVL4145 Groundwater Modelling and Management	2	2		**CIVL4140** Contaminant Transport Modelling (discontinued)	**1/21**
	CIVL4525 Sustainable Infrastructure Design	1	2		No substitution	
	CIVL6210 Dam Engineering	2	2		No substitution	
	ENVE3150 Environmental System Dynamics and Modelling	2	2		**CIVL3150** Modelling of Environmental Systems (discontinued)	
	ENVE3160 Environmental Phenomena	1	2		No substitution	
	ENVM3103 Regulatory Frameworks for Environmental Management & Planning	1	2		No substitution	
	ENVM3115 Climate Change & Environmental Management	1	2		No substitution	
	ENVM3201 Catchment Processes & Management	1	2		No substitution	
	ERTH3250 Groundwater Processes and Resources	2	2		No substitution	
	WATR6105 Integrated Urban Water Management	1	2		**WATR7105** Integrated Urban Water Management (discontinued)	**1/20**

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	0 to 4 units from Civil Engineering Advanced Elective Courses					
	CIVL3220 Rock Mechanics	1	2		No substitution	
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3380 Structural and Steel Design	1	2		**CIVL2340** Design of Steel Structures (discontinued)	**2/22**
	CIVL3390 Integrated Structural Design	2	2		No substitution	
	CIVL3430 Sustainable Transport Engineering	1	2	**1/24**	No substitution	
	CIVL4145 Groundwater Modelling and Management	2	2		**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		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		No substitution	
	CIVL4522 Analytical Methods for the Design of Construction Operations	2	2		No substitution	
	CIVL4525 Sustainable Infrastructure Design	1	2		No substitution	
	CIVL6111 Ocean, Coastal & Estuarine Engineering	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6112 Hydro- and Marine Power Renewable Energy Systems	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued) *** CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both**	**2/22**
	CIVL6121 Environmental Hydraulics and Flood Management	1	2		**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**

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	CIVL6210 Dam Engineering	2	2		No substitution	
	CIVL6215 Ground Improvement	1	2		**CIVL7215** Ground Improvement & Remediation Technologies (discontinued)	**1/23**
	CIVL6220 Mine Waste Management	1	2		No substitution	
	CIVL6250 Underground Structures	2	2		No substitution	
	CIVL6360 Advanced Structural Analysis	2	2		**CIVL4332** Advanced Structural Analysis (discontinued)	**2/22**
	CIVL6410 Transport Network Modelling	1	2		No substitution	
	CIVL6415 Traffic Analysis and Simulation	2	2		No substitution	
	ENVE3150 Environmental System Dynamics and Modelling	2	2		**CIVL3150** Modelling of Environmental Systems (discontinued)	**2/20**
	ENVE3160 Environmental Phenomena	1	2		No substitution	
	ENVE4610 Engineering the Circular Economy	1	2		No substitution	
	FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	
	FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	