

CHECKLIST Bachelor of Engineering (Honours)/Master of Engineering – Civil Engineering (2350): Completion of pre-2021 program

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.

You must complete for the BE(Hons)/ME (Civil Engineering Plan code: CIVENX2350), 80 units comprising –

- 56 units from [part A](#) - compulsory, and
- 20 units from the combination of parts [B1](#), [B2](#), and [part N](#) - electives; with
 - a minimum of 8 units from part [B2](#); and
 - a minimum of 6 units from [part N](#) and
- 4 units from electives, being courses on the BE(Hons)/ME list or other courses approved by the executive dean.

PART A

Tick the courses you have completed and nominate the alternative course you plan to choose (if required). Discontinued courses are coloured red.

✓/x compl.	Pre-2021 Part A list	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
56 units from Part A - compulsory							
	ENGG1100 Engineering Design (2) and ENGG1200 Engineering Modelling & Problem Solving (2) (discontinued) OR ENGG1211 Engineering Design, Modelling & Problem Solving (4) (discontinued)	2 2 4	2/20 2/20	ENGG1100 Professional Engineering and * If you have not completed ENGG1200, please contact EAIT Student Admin for replacement	1,2	2	
	MATH1051 Calculus & Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I	2		MATH1051 Calculus and Linear Algebra I OR MATH1071 Advanced Calculus and Linear Algebra I	1,2 1	2 2	
	MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	2		MATH1052 Multivariate Calculus and Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus and Ordinary Differential Equations	1,2 2	2 2	
	ENGG1400 Engineering Mechanics: Statics & Dynamics (discontinued)	2	2/20	ENGG1700 Statics and Materials	1,2	2	
	CIVL2135 Environmental Issues and Sustainability in Engineering	2		CIVL2135 Introduction to Environmental Engineering	1	2	
	CIVL2330 Structural Mechanics	2		CIVL2330 Structural Mechanics	1	2	
	CIVL2410 Sustainable Transport Engineering - Traffic Analysis (discontinued)	2	1/21	CIVL2420 Fundamental of Transport Engineering	2	2	
	CIVL2530 Probability and Statistics in Engineering	2		CIVL2530 Statistics and Data Analysis	1	2	
	CIVL2131 Environmental Fluid Mechanics	2		CIVL2131 Environmental Fluid Mechanics	1	2	
	CIVL2210 Soil Mechanics	2		CIVL2210 Soil Mechanics	2	2	

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	CIVL2340 Design of Steel Structures (discontinued)	2	2/22	CIVL3380 Structural and Steel Design	1	2	
	CIVL2360 Design of Concrete Structures (discontinued)	2	2/21	CIVL3360 Reinforced Concrete Design	2	2	
	CIVL3140 Hydraulics of Engineered and Natural Waterways (discontinued) and CIVL3141 Hydrology and Hydrological Risk (discontinued)	2	1/21 2/21	CIVL3155 Hydrology and free surface flows (See Note 1) plus [CIVL6121 Environmental Hydraulics and Flood Management OR [CIVL4145 Groundwater Modelling and Management	2 1 2	2 2 2	
	CIVL3210 Geotechnical Engineering	2		CIVL3210 Geotechnical Engineering	1	2	
	CIVL3340 Structural Analysis	2		CIVL3340 Structural Analysis	1	2	
	CIVL3350 Integrated Structural Design (discontinued)	2	2/22	CIVL3390 Integrated Structural Design	2	2	
	CIVL3420 Sustainable Transport Engineering - Planning and Design (discontinued)	2	1/23	CIVL3430 Sustainable Transport Engineering	1	2	1/24
	CIVL3510 Project Management with Building Information Modelling (discontinued)	2	2/22	Any B2 Elective			
	CIVL4514 Integrated Design (discontinued)	2	1/23	CIVL4518 Design in the Built Environment	2	2	2/24
	ENGG4900 Professional Practice and the Business Environment (discontinued)	2	2/23	ENGG4901 Professional Practice and the Business Environment A OR ENGG4902 Professional Practice and the Business Environment B	1 2	2 2	1/24 2/24
	CIVL4516 Integrated Design for Environmental Management	2		CIVL4516 Integrated Design for the Natural Environment	2	2	
	CIVL7500 Research Thesis OR CIVL7501 Research Thesis	8 8		CIVL7500 Research Thesis OR CIVL7501 Research Thesis	1 2	8 8	
	ENGG7701 Engineering Grand Challenges	2		ENGG7701 Engineering Grand Challenges	2	2	

Notes:

- If a continuing student has
 - completed **CIVL3141** but not **CIVL3140** then they must do **CIVL3155**
 - completed **CIVL3140** but not **CIVL3141** then they must do **CIVL3155**

PART B

✓/X compl.	Part B0 - Preparatory Mathematics & Science Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	CHEM1090 Introductory Chemistry	2		CHEM1090 Introductory Chemistry	1	2	
	MATH1050 Mathematical Foundations	2		MATH1050 Mathematical Foundations II	1,2	2	
	PHYS1171 Physical Basis of Biological Systems	2		PHYS1171 Physical Basis of Biological Systems	1,2	2	

✓/X compl.	Part B1 - Introductory Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	CHEM1100 Chemistry 1	2		CHEM1100 Chemistry 1	1,2	2	
	CSSE1001 Introduction to Software Engineering	2		CSSE1001 Introduction to Software Engineering OR ENGG1001 Programming for Engineers	1,2	2	
	ENGG1300 Introduction to Electrical Systems	2		ENGG1300 Introduction to Electrical Systems	1,2	2	
	ENGG1500 Engineering Thermodynamics	2		ENGG1500 Engineering Thermodynamics	1,2	2	
	ENGG1600 Introduction to Research Practices - The Big Issues	2		ENGG1600 Introduction to Research Practices - The Big Issues	2	2	
	ENGG2000 Humanitarian Engineering	2		ENGG2000 Humanitarian Engineering	2	2	
	ERTH1501 Earth Processes & Geological Materials for Engineers	2		ERTH1501 Earth Processes and Geological Materials for Engineers	1	2	
	MATH2000 Calculus & Linear Algebra II (discontinued)	2	2/20	MATH2001 Calculus and Linear Algebra II	1,2	2	
	MATH2001 Advanced Calculus & Linear Algebra II	2		MATH2001 Calculus and Linear Algebra II	1,2	2	
	MINE2105 Introduction to Mining and Mineral Processing (discontinued)	2	1/21	Any B1 Elective			
	MINE3121 Mining Geomechanics (discontinued)	2	1/22	MINE3129 Applied Mining Geomechanics (discontinued) OR MINE6112 Applied Mining Geomechanics OR CIVL3220 Rock Mechanics	1 1 2	2 2 2	
	PHYS1002 Electromagnetism and Modern Physics	2		PHYS1002 Electromagnetism and Modern Physics	2	2	
	REDE1300 Building Construction Management & Economics (discontinued)	2	1/20	Any B1 Elective			

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Part B2 – Advanced Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
Minimum of 8 units (max of 14 units) from Part B2 - Electives						
CHEE4012 Industrial Wastewater & Solid Waste Management (discontinued)	2	2/22	WATR6103 Advanced Wastewater and Biosolids Treatment	2	2	
CIVL3150 Modelling of Environmental Systems (discontinued)	2	2/20	ENVE3150 Environmental System Dynamics and Modelling	2	2	
CIVL4110 Coastal & Estuarine Engineering (discontinued)	2	2/21	CIVL6111 Ocean, Coastal and Estuarine Engineering OR CIVL6112 Hydro and Marine Power Renewable Energy Systems	2 2	2 2	
CIVL4120 Advanced Hydraulic Engineering and Structures (discontinued)	2	2/20	CIVL6121 Environmental Hydraulics and Flood Management	1	2	
CIVL4140 Contaminant Transport Modelling (discontinued)	2	1/21	CIVL4145 Groundwater Modelling and Management	2	2	
CIVL4170 Environmental Risk Assessment and Management	2		CIVL4170 Risk Analysis in Civil Engineering	1	2	
CIVL4180 Sustainable Built Environment (discontinued)	2	1/20	CIVL4525 Sustainable Infrastructure Design	2	2	
CIVL4230 Advanced Soil Mechanics	2		CIVL4230 Advanced Soil Mechanics	2	2	
CIVL4270 Geotechnical Investigation & Testing	2		CIVL4270 Geotechnical Investigation and Testing	1	2	
CIVL4280 Advanced Rock Mechanics	2		CIVL4280 Applied Rock Mechanics	2	2	
CIVL4332 Advanced Structural Analysis (discontinued)	2	2/22	CIVL6360 Advanced Structural Analysis	2	2	
CIVL4333 Advanced Concrete Design	2		CIVL4333 Advanced Concrete Design	1	2	
CIVL4334 Design of Timber Structures	2		CIVL4334 Design of Timber Structures	2	2	
CIVL4340 Wind Engineering	2		CIVL4340 Wind Engineering	1	2	
CIVL4412 Travel Behaviour and Transport Modelling (discontinued)	2	2/21	CIVL6412 Traffic Behavioural Modelling (discontinued - only offered in Semester 2, 2022) OR Any Part B2 Advanced Elective	2	2	
CIVL4450 Traffic Flow Theory and Emerging Technologies	2		CIVL4450 Traffic Flow Theory and Emerging Technologies	2	2	
CIVL4460 Highway Geometric Design	2		CIVL4460 Highway Geometric Design	2	2	
CIVL4522 Analytical Methods for the Design of Construction Operations	2		CIVL4522 Analytical Methods for the Design of Construction Operations	2	2	
CIVL4560 Project (discontinued)	2	2/22	CIVL4600 Research Project	1,2	2	

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	CIVL4580 Research Thesis (discontinued) OR CIVL4583 Research Thesis (discontinued))	4	2/20	CIVL4604 Research Thesis	1	2	
	CIVL4582 Research Thesis (discontinued) OR CIVL4584 Research Thesis (discontinued)	4	1/21	CIVL4606 Research Thesis	1	2	
	FIRE3700 Introduction to Fire Safety Engineering	2		FIRE3700 Introduction to Fire Safety Engineering	1	2	
	FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	2		FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	1	2	
	MINE4000 Mine Waste Management & Landform Design (discontinued)	2	1/22	CIVL6220 Mine Waste Management	1	2	

Part N

✓/x compl.	Part N - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
Minimum of 6 units (max of 12 units) from Part N - Electives							
	CIVL7131 Urban Hydrology	2		CIVL7131 Urban Hydrology	1	2	
	CIVL7135 Environmental Sensor Systems and Monitoring Techniques (discontinued)	2	1/22	Any Part N elective			
	CIVL7155 Environmental Fluid Mechanics - Modelling Applications (discontinued)	2	1/20	Any Part N elective			
	CIVL7215 Ground Improvement & Remediation Technologies (discontinued)	2	1/22	CIVL6215 Ground Improvement and Remediation Technologies	1	2	
	CIVL7225 Dam and Embankment Engineering (discontinued)	2	2/22	CIVL6210 Dam Engineering	2	2	
	CIVL7350 Design of Composite Structures (discontinued)	2	1/20	Any Part N elective			
	CIVL7415 Spatial and Quantitative Methods for Transport Data Analytics	2		CIVL7415 Transport Data Analytics	1	2	
	CIVL7425 Strategic Transport Modelling (discontinued)	2	1/21	CIVL6412 Traffic Behavioural Modelling (discontinued - only offered in Semester 2, 2022) OR Any Part N elective			
	FIRE7660 Structural Fire Engineering	2		FIRE7660 Structural Fire Engineering	1	2	
	CIVL7235 Underground Structures (discontinued)	2	2/22	CIVL6250 Underground Structures	2	2	2/24
	CIVL7315 Advanced Concrete Structures and Concrete Technology	2		CIVL7315 Advanced Concrete Structures and Concrete Technology	2	2	
	CIVL7360 Computational Design and Digital Workflows	2		CIVL7360 Computational Design and Digital Workflows	2	2	
	CIVL7435 Traffic Simulation: Methods and Applications (discontinued)	2	2/22	CIVL6415 Traffic Analysis and Simulation	2	2	

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	CIVL7505 Research Methods for Civil Engineers (discontinued)	2	2/23	ENGG7518 Research Methods for Engineers OR Any Part N elective			2/24
	FIRE7620 Fire Dynamics	2		FIRE7620 Fire Dynamics	2	2	