

CHECKLIST Bachelor of Engineering (Honours)/Master of Engineering – Civil & Fire Safety 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 & Fire Safety Engineering Plan code: CIVFSX2350), 80 units comprising -

- 68 units from [part A - compulsory](#), and
- 6 units from the combination of [part B2](#) electives; with
- 4 units from electives, being courses on the BE(Hons)/ME list or other courses approved by the executive dean.
 - a minimum of 2 units from the combination of part [B1](#) and [B2](#); and
 - a minimum of 4 units of courses from part [Part B0 - Preparatory Mathematics & Science Electives](#)^{B0}

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
68 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 2		MATH1051 Calculus and Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I	1,2 1	2 2	
	MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	2 2		MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & 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	
	CIVL2340 Design of Steel Structures (discontinued)	2	2/22	CIVL3380 Structural and Steel Design	1	2	

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	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	
	CIVL3210 Geotechnical Engineering	2		CIVL3210 Geotechnical Engineering	1	2	
	CIVL3340 Structural Analysis	2		CIVL3340 Structural Analysis	1	2	
	FIRE3700 Introduction to Fire Safety Engineering	2		FIRE3700 Introduction to Fire Safety Engineering	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 Integrated Design for the Built Environment	2	2	2/24
	FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	2		FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	1	2	
	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	
	FIRE7620 Fire Dynamics	2		FIRE7620 Fire Dynamics	2	2	
	FIRE7500 Thesis (discontinued) OR CIVL7501 Research Thesis	8 8	2/20	CIVL7500 Thesis OR CIVL7501 Research Thesis	1,2 1,2	8 8	
	FIRE7640 Fire Dynamics Laboratory	2		FIRE7640 Fire Dynamics Laboratory	2	2	
	FIRE7660 Structural Fire Engineering	2		FIRE7660 Structural Fire Engineering	1	2	
	ENGG7701 Engineering Grand Challenges	2		ENGG7701 Engineering Grand Challenges	2	2	
	FIRE7680 Fire Engineering Design: Explicit Quantification of Safety	2		FIRE7680 Fire Engineering Design: Explicit Quantification of Safety	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 (semester 2 only from 2022)	2	2	
	REDE1300 Building Construction Management & Economics (discontinued)	2	1/20	Any B1 Elective		2	

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✓/X compl.	Part B2 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	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 Elective			
	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	
	MINE4000 Mine Waste Management & Landform Design (discontinued)	2	1/22	CIVL6220 Mine Waste Management	1	2	

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