

# CHECKLIST Bachelor of Engineering (Honours) – Civil Engineering (2342): 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) (Civil Engineering) - a Single Major or Extended Major, or Major & Minor; 64 units comprising –

- a. a major - 52 units, comprising-
  - (i) 46 units, being all courses from [part A](#) (listed below); and
  - (ii) 6 units from a combination of [part B1](#) and [B2](#) electives, (with a minimum of 4 units from [part B2](#)); and
- b. 12 units from electives
  - (i) a minimum of 4 units from courses on the BE(Hons) list, other than courses on the Civil Engineering [part B0 list](#), and
  - (ii) a maximum of 4 units from courses on the Civil Engineering [part B0 list](#), and
  - (iii) a maximum of 4 units from level one courses not on the BE(Hons) list

OR

- a. an extended major - 60 units, comprising-
  - (i) 46 units, being all courses from [part A](#) - compulsory; and
  - (ii) 14 units from a combination of [part B1](#) and [B2](#) electives, (with a minimum of 8 units from [part B2](#)); and
- b. 4 units from electives.

## 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
46 units, being all courses from Part A - compulsory							
	<b>ENGG1100</b> Engineering Design (2) and <b>ENGG1200</b> Engineering Modelling & Problem Solving (2) (discontinued) OR <b>ENGG1211</b> Engineering Design, Modelling & Problem Solving (4) (discontinued)	2 2 4	2/20 2/20	<b>ENGG1100</b> Professional Engineering and * If you have not completed ENGG1200, please contact EAIT Student Admin for replacement	1,2	2	
	<b>MATH1051</b> Calculus & Linear Algebra I OR <b>MATH1071</b> Advanced Calculus & Linear Algebra I	2 2		<b>MATH1051</b> Calculus and Linear Algebra I OR <b>MATH1071</b> Advanced Calculus & Linear Algebra I	1,2 1	2 2	
	<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations OR <b>MATH1072</b> Advanced Multivariate Calculus & Ordinary Differential Equations	2 2		<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations OR <b>MATH1072</b> Advanced Multivariate Calculus & Ordinary Differential Equations	1,2 2	2 2	
	<b>ENGG1400</b> Engineering Mechanics: Statics & Dynamics (discontinued)	2	2/20	<b>ENGG1700</b> Statics and Materials	1,2	2	
	<b>CIVL2135</b> Environmental Issues and Sustainability in Engineering	2		<b>CIVL2135</b> Introduction to Environmental Engineering	1	2	
	<b>CIVL2330</b> Structural Mechanics	2		<b>CIVL2330</b> Structural Mechanics	1	2	
	<b>CIVL2410</b> Sustainable Transport Engineering - Traffic Analysis (discontinued)	2	1/21	<b>CIVL2420</b> Fundamental of Transport Engineering	2	2	

Once you have completed the BE(Hons) Transition Plan – Civil continuation checklist, you may either email your checklist to the Faculty on [enquiries@eit.uq.edu.au](mailto:enquiries@eit.uq.edu.au) or book an appointment with an Academic Advisor directly.

	<b>CIVL2530</b> Probability and Statistics in Engineering	2		<b>CIVL2530</b> Statistics and Data Analysis	1	2	
	<b>CIVL2131</b> Environmental Fluid Mechanics	2		<b>CIVL2131</b> Environmental Fluid Mechanics	1	2	
	<b>CIVL2210</b> Soil Mechanics	2		<b>CIVL2210</b> Soil Mechanics	2	2	
	<b>CIVL2340</b> Design of Steel Structures (discontinued)	2	<b>2/22</b>	<b>CIVL3380</b> Structural Steel Design	1	2	
	<b>CIVL2360</b> Design of Concrete Structures (discontinued)	2	<b>2/21</b>	<b>CIVL3360</b> Reinforced Concrete Design	2	2	
	<b>CIVL3140</b> Hydraulics of Engineered and Natural Waterways (discontinued) and <b>CIVL3141</b> Hydrology and Hydrological Risk (discontinued)	2 2	<b>1/21</b> <b>2/21</b>	<b>CIVL3155</b> 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	
	<b>CIVL3210</b> Geotechnical Engineering	2		<b>CIVL3210</b> Geotechnical Engineering	1	2	
	<b>CIVL3340</b> Structural Analysis	2		<b>CIVL3340</b> Structural Analysis	1	2	
	<b>CIVL3350</b> Integrated Structural Design (discontinued)	2	<b>2/22</b>	<b>CIVL3390</b> Integrated Structural Design	2	2	
	<b>CIVL3420</b> Sustainable Transport Engineering - Planning and Design (discontinued)	2	<b>1/23</b>	<b>CIVL3430</b> Sustainable Transport Engineering	1	2	<b>1/24</b>
	<b>CIVL3510</b> Project Management with Building Information Modelling (discontinued) (see Note 2)	2	<b>2/22</b>	Any B2 Elective			
	<b>CIVL4514</b> Integrated Design (discontinued)	2	<b>1/23</b>	<b>CIVL4518</b> Integrated Design for the Built Environment	2	2	<b>2/24</b>
	<b>ENGG4900</b> Professional Practice and the Business Environment (discontinued)	2	<b>2/23</b>	<b>ENGG4901</b> Professional Practice and the Business Environment A OR <b>ENGG4902</b> Professional Practice and the Business Environment B	1 2	2 2	<b>1/24</b> <b>2/24</b>
	<b>CIVL4516</b> Integrated Design for Environmental Management	2		<b>CIVL4516</b> Integrated Design for the Natural Environment	2	2	

**Notes:**

- If a continuing student has
  - completed **CIVL3141** but not **CIVL3140** then they must do **CIVL3155** and complete either **CIVL6121** or **CIVL4145**
    - CIVL3141 can count as an Engineering elective if there is room in the program or will be surplus.
  - completed **CIVL3140** but not **CIVL3141** then they must do **CIVL3155** and complete either **CIVL6121** or **CIVL4145**
    - CIVL3140 can count as an Engineering elective if there is room in the program or will be surplus.
- If CIVL3520 was taken in place of CIVL3510 before semester 2 2024. CIVL3520 will count as a B2 elective. Completion of ENGG4901/4902 is required towards the Part A course list.

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## PART B

✓/X compl.	Part B0 - Preparatory Mathematics & Science Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	<b>CHEM1090</b> Introductory Chemistry	2		<b>CHEM1090</b> Introductory Chemistry	1	2	
	<b>MATH1050</b> Mathematical Foundations	2		<b>MATH1050</b> Mathematical Foundations II	1,2	2	
	<b>PHYS1171</b> Physical Basis of Biological Systems	2		<b>PHYS1171</b> 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
	<b>CHEM1100</b> Chemistry 1	2		<b>CHEM1100</b> Chemistry 1	1,2	2	
	<b>CSSE1001</b> Introduction to Software Engineering	2		<b>CSSE1001</b> Introduction to Software Engineering OR <b>ENGG1001</b> Programming for Engineers	1,2	2	
	<b>ENGG1300</b> Introduction to Electrical Systems	2		<b>ENGG1300</b> Introduction to Electrical Systems	1,2	2	
	<b>ENGG1500</b> Engineering Thermodynamics	2		<b>ENGG1500</b> Engineering Thermodynamics	1,2	2	
	<b>ENGG1600</b> Introduction to Research Practices - The Big Issues	2		<b>ENGG1600</b> Introduction to Research Practices - The Big Issues	2	2	
	<b>ENGG2000</b> Humanitarian Engineering	2		<b>ENGG2000</b> Humanitarian Engineering	2	2	
	<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers	2		<b>ERTH1501</b> Earth Processes and Geological Materials for Engineers	1	2	
	<b>MATH2000</b> Calculus & Linear Algebra II (discontinued)	2	2/20	<b>MATH2001</b> Calculus and Linear Algebra II	1,2	2	
	<b>MATH2001</b> Advanced Calculus & Linear Algebra II	2		<b>MATH2001</b> Calculus and Linear Algebra II	1,2	2	
	<b>MINE2105</b> Introduction to Mining and Mineral Processing (discontinued)	2	1/21	Any B1 Elective			
	<b>MINE3121</b> Mining Geomechanics (discontinued)	2	1/22	<b>MINE6112</b> Applied Mining Geomechanics OR <b>CIVL3220</b> Rock Mechanics	1 2	2 2	
	<b>PHYS1002</b> Electromagnetism and Modern Physics	2		<b>PHYS1002</b> Electromagnetism and Modern Physics	2	2	
	<b>REDE1300</b> Building Construction Management & Economics (discontinued)	2	1/20	Any B1 Elective			

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✓/X compl.	Part B2 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	<b>CHEE4012</b> Industrial Wastewater & Solid Waste Management (discontinued)	2	2/22	<b>WATR6103</b> Advanced Wastewater and Biosolids Treatment	2	2	
	<b>CIVL3150</b> Modelling of Environmental Systems (discontinued)	2	2/20	<b>ENVE3150</b> Environmental System Dynamics and Modelling	2	2	
	<b>CIVL4110</b> Coastal & Estuarine Engineering (discontinued)	2	2/21	<b>CIVL6111</b> Ocean, Coastal and Estuarine Engineering OR <b>CIVL6112</b> Hydro and Marine Power Renewable Energy Systems	2 2	2 2	
	<b>CIVL4120</b> Advanced Hydraulic Engineering and Structures (discontinued)	2	2/20	<b>CIVL6121</b> Environmental Hydraulics and Flood Management	1	2	
	<b>CIVL4140</b> Contaminant Transport Modelling (discontinued)	2	1/21	<b>CIVL4145</b> Groundwater Modelling and Management	2	2	
	<b>CIVL4170</b> Environmental Risk Assessment and Management	2		<b>CIVL4170</b> Risk Analysis in Civil Engineering	1	2	
	<b>CIVL4180</b> Sustainable Built Environment (discontinued)	2	1/20	<b>CIVL4525</b> Sustainable Infrastructure Design	2	2	
	<b>CIVL4230</b> Advanced Soil Mechanics	2		<b>CIVL4230</b> Advanced Soil Mechanics	2	2	
	<b>CIVL4270</b> Geotechnical Investigation & Testing	2		<b>CIVL4270</b> Geotechnical Investigation and Testing	1	2	
	<b>CIVL4280</b> Advanced Rock Mechanics	2		<b>CIVL4280</b> Applied Rock Mechanics	2	2	
	<b>CIVL4332</b> Advanced Structural Analysis (discontinued)	2	2/22	<b>CIVL6360</b> Advanced Structural Analysis	2	2	
	<b>CIVL4333</b> Advanced Concrete Design	2		<b>CIVL4333</b> Advanced Concrete Design	1	2	
	<b>CIVL4334</b> Design of Timber Structures	2		<b>CIVL4334</b> Design of Timber Structures	2	2	
	<b>CIVL4340</b> Wind Engineering	2		<b>CIVL4340</b> Wind Engineering	1	2	
	<b>CIVL4412</b> Travel Behaviour and Transport Modelling (discontinued)	2	2/21	<b>CIVL6412</b> Traffic Behavioural Modelling (discontinued) OR Any Part B2 Elective	2	2	
	<b>CIVL4450</b> Traffic Flow Theory and Emerging Technologies	2		<b>CIVL4450</b> Traffic Flow Theory and Emerging Technologies	2	2	
	<b>CIVL4460</b> Highway Geometric Design	2		<b>CIVL4460</b> Highway Geometric Design	2	2	
	<b>CIVL4522</b> Analytical Methods for the Design of Construction Operations	2		<b>CIVL4522</b> Analytical Methods for the Design of Construction Operations	2	2	
	<b>CIVL4560</b> Project (discontinued)	2	2/22	<b>CIVL4600</b> Research Project	1,2	2	
	<b>CIVL4580</b> Research Thesis (discontinued) OR <b>CIVL4583</b> Research Thesis (discontinued))	4 4	2/20 2/22	<b>CIVL4604</b> Research Thesis	1	2	
	<b>CIVL4582</b> Research Thesis (discontinued) OR <b>CIVL4584</b> Research Thesis (discontinued)	4 4	1/21 1/23	<b>CIVL4606</b> Research Thesis	1	2	

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	<b>FIRE3700</b> Introduction to Fire Safety Engineering	2		<b>FIRE3700</b> Introduction to Fire Safety Engineering	1	2	
	<b>FIRE4610</b> Fire Engineering Design: Solutions for Implicit Safety	2		<b>FIRE4610</b> Fire Engineering Design: Solutions for Implicit Safety	1	2	
	<b>MINE4000</b> Mine Waste Management & Landform Design (discontinued)	2	<b>1/22</b>	<b>CIVL6220</b> Mine Waste Management	1	2	