

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

* This checklist is for the BE(Hons) component for dual programs with Bachelor of Arts, Bachelor of Business Management, Bachelor of Commerce, Bachelor of Design, Bachelor of Economics, Bachelor of Information Technology

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) 56 units from the BE(Hons) component, comprising—

- (i) 8 units for BE(Hons) core courses, and
- (ii) 36 units for a BE(Hons) Civil Engineering specialisation, and
- (iii) 12 units for specified BE(Hons) Civil Engineering electives

✓/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): _____

2021 Civil Engineering specialisation list (36 units)

✓/x compl.		Sem offering	#	First offered	Approved substitution	Last offered
	30 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 (moves to sem 1 offering in 2022)	2	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	
	CIVL4600 Research Part A	1,2	2	1/23	CIVL4560 Project (2) or CIVL4580 Research Thesis (4) (recode to CIVL4583 – 2/21) or CIVL4582 Research Thesis (4) (recode to CIVL4584 – 2/21)	2/22
	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 CIVL4516 Integrated Design for Environmental Environment	1/23 1/23
	4 units from: Civil Engineering Advanced Electives					
	CIVL3220 Rock Mechanics (NEW)	1	2	1/22	No substitution	

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

BE(Hons)/Bxx Transition Plan – Civil Engineering NEW

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	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3350 Integrated Structural Design	2	2		No substitution	
	CIVL3380 Structural and Steel Design (NEW)	1	2	1/23	CIVL2340 Design of Steel Structures (discontinued)	2/22
	CIVL3420 Sustainable Transport Engineering (moves to Semester 1 in 2023)	2	2		No substitution	1/22
	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	2/22
	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	2/22
	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			
	CIVL4290 Geotechnical Infrastructure (NEW)	1	2	1/23	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 (NEW)	1	2	1/23	No substitution	
	CIVL4605 Research Part B (NEW)	1,2	2	1/23	No substitution	
	CIVL6210 Dam Engineering (NEW)	2	2	2/23	No substitution	
	CIVL6215 Ground Improvement (NEW)	1	2	1/23	CIVL7215 Ground Improvement & Remediation Technologies (discontinued)	1/23
	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

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	CIVL6410 Transport Network Modelling (NEW)	1	2	1/23	No substitution	
	CIVL6412 Traffic Behavioural Modelling (NEW)	2	2	2/23	CIVL4412 Traffic Behaviour and Transport Modelling (discontinued)	2/22
	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	
	ENVE6110 Environmental Sensor Systems and Monitoring Techniques (NEW)	1	2	1/23	CIVL7135 Environmental Sensor Systems and Monitoring Techniques (discontinued)	1/22
	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					

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Civil Engineering Electives

Students must complete 12 units comprising -

- i. 8 to 12 units from Civil Engineering Advanced Electives; and
- ii. 0 to 4 units from any Civil Engineering Breadth Electives

✓/x compl.	8 to 12 units from: Civil Engineering Advanced Electives	Sem offering	#	First offered	Approved substitution	Last offered
	CIVL3220 Rock Mechanics (NEW)	1	2	1/22	No substitution	
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3350 Integrated Structural Design	2	2		No substitution	
	CIVL3380 Structural and Steel Design (NEW)	1	2	1/23	CIVL2340 Design of Steel Structures (discontinued)	2/23
	CIVL3420 Sustainable Transport Engineering	2	2		No substitution	
	CIVL6111 Ocean, Coastal & Estuarine Engineering (NEW)	2	2	2/23	CIVL4110 Coastal & Estuarine Engineering (discontinued)	2/22
	CIVL6112 Hydro- and Marine Power Renewable Energy Systems (NEW)	2	2	2/23	No substitution	
	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	
	CIVL4290 Geotechnical Infrastructure (NEW)	1	2	1/23	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 (NEW)	1	2	1/23	No substitution	
	CIVL4605 Research Part B (NEW)	1,2	2	1/23	No substitution	
	CIVL6210 Dam Engineering (NEW)	2	2	2/23	No substitution	
	CIVL6215 Ground Improvement (NEW)	1	2	1/23	CIVL7215 Ground Improvement & Remediation Technologies (discontinued)	1/23

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	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	
	CIVL6412 Traffic Behavioural Modelling (NEW)	2	2	2/23	CIVL4412 Traffic Behaviour and Transport Modelling (discontinued)	2/22
	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	
	ENVE6110 Environmental Sensor Systems and Monitoring Techniques (NEW)	1	2	1/23	CIVL7135 Environmental Sensor Systems and Monitoring Techniques (discontinued)	1/21
	FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	
	FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	
	0 to 4 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:

- o Environmental Engineering
- o General Civil 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.

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