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

* 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

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 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

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

(iii) 8 to 12 units from Civil Engineering Advanced Elective Courses, and

(iv) 0 to 4 units from Civil Engineering Breadth Elective Courses

√/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 1,2	2		Course must be completed	
	CSSE1001 Introduction to Software Engineering MATH1051 Calculus and 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	2		Course must be completed	

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Specialisation in Civil Engineering

Complete 48 units comprising:

- i. 36 units for a BE(Hons) Civil Engineering specialisation, and
 - 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
- ii. 8 to 12 units from Civil Engineering Advanced Elective Courses, and
- iii. 0 to 4 units from Civil Engineering Breadth 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 and Materials	1,2	2		ENGG1400 Engineering Mechanics: Statics and Dynamics (discontinued)	2/20
	CIVL2131 Environmental Fluid Mechanics	1	2		Course must be completed	
	CIVL2135 Introduction to Environmental Engineering	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;	2/21 1/21
					therefore 2 units will count as a Compulsory Course and 2 units will count towards Civil Engineering Advanced Electives]	
	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) OR ENGG4900 Professional Practice and the Business Environment (discontinued)	2/22 2/23
	CIVL3530 Data Analytics in Civil Engineering	1	2		Course must be completed	
	CIVL4170 Risk Analysis in Civil Engineering	1	2		Course must be completed	

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CIVL4518 Integrated Design for the Built Environment	2	2	2/24	CIVL4514 Integrated Design (discontinued)	1/23
Or				OR	
CIVL4516 Integrated Design for Environmental Management	1	2		CIVL4516 Integrated Design for Environmental Management	
				If both courses are completed, 2 units will count as a Compulsory Course and 2 units will count towards Civil Engineering Advanced Electives	

2 to 4 units from Civil Engineering Research Courses								
CIVL4600 Research Project	1,2	2	1/23	CIVL4560 Project (discontinued)	2/22			
CIVL4604 Research Thesis OR	1,2	4	1/23	CIVL4580 Research Thesis (discontinued) OR	2/20			
CIVL4606 Research Thesis	1,2	4	2/23	CIVL4583 Research Thesis (discontinued) OR	2/22			
				CIVL4582 Research Thesis (discontinued) OR	1/21			
				CIVL4584 Research Thesis (discontinued)	1/23			

2 to 4 units from Civil Engineering Advanced Elective Courses

2 units from BE(Hons) Program Elective Courses

8 to 12 units from Civil Engineering Advanced Electives

MATH2001 Calculus and Linear Algebra II	1,2	2	MATH2000 Calculus and Linear Algebra II (discontinued)	2/
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				

1 1 2 1 2 2 1 1 2 1 1	2 2 2 2 2 2 2 2 2 2	1/24	No substitution CIVL2340 Design of Steel Structures (discontinued) CIVL3350 Integrated Structural Design (discontinued) CIVL3420 Sustainable Transport Engineering – Planning and Design (discontinued) CIVL4140 Contaminant Transport Modelling (discontinued) No substitution CIVL4270 Geotechnical Investigation & Testing
2 1 2 2 1 1 2 2 2 1 2 2	2 2 2 2	1/24	CIVL3350 Integrated Structural Design (discontinued) CIVL3420 Sustainable Transport Engineering – Planning and Design (discontinued) CIVL4140 Contaminant Transport Modelling (discontinued) No substitution CIVL4270 Geotechnical Investigation & Testing
1 2 2 1 1 2	2 2 2 2	1/24	CIVL3420 Sustainable Transport Engineering – Planning and Design (discontinued) CIVL4140 Contaminant Transport Modelling (discontinued) No substitution CIVL4270 Geotechnical Investigation & Testing
2 2 1 2 2	2 2 2	1/24	CIVL4140 Contaminant Transport Modelling (discontinued) No substitution CIVL4270 Geotechnical Investigation & Testing
2 1 2	2		No substitution CIVL4270 Geotechnical Investigation & Testing
1 2	2		CIVL4270 Geotechnical Investigation & Testing
2			, ,
	2		
1		1	No substitution
	2		No substitution
2	2		No substitution
1	2		No substitution
2	2		No substitution
2	2		No substitution
2	2		No substitution
2	2		CIVL4180 Sustainable Built Environment (discontinued) CIVL4110 Coastal & Estuarine Engineering (discontinued) * CIVL4110 may only be used as approved substitution for CIVL6111 OR CIVL6112 – not both
1	2		CIVL4120 Advanced Hydraulic Engineering and Structures (discontinued)
2	2		No substitution
1	2		No substitution
1	2		MINE4000 Mine Waste Management & Landform Design (discontinued)
	2 2 1 2 2 1 2 1 1 2 1 1	2 2 2 2 2 1 2 2 1 2 2 1 2 1 2 1 2 1 2 1	2 2 2 1 2 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1

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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	1/24	No substitution	
FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	
FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	