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	2		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	

Once you have completed the BE(Hons)/Bxx Transition Plan – Civil Engineering NEW (Commencing 2024) checklist, you may either email your checklist to the Faculty on enquiries@eait.uq.edu.au or book an appointment with an Academic Advisor directly.

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 & 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; 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		**CIVL2360** Design of Concrete Structures (discontinued)	**2/21**
	CIVL3520 Project Management and Professional Practice	2	2		**CIVL3510** Project Management with Building Information Modelling (discontinued)	**2/22**
	CIVL3530 Data Analytics in Civil Engineering	1	2		Course must be completed	
	CIVL4170 Risk Analysis and Assessment	1	2		Course must be completed	
	CIVL4514 Integrated Design **or** **CIVL4516** Integrated Design for Environmental Environment	2 2	2 2	**2/24**	Course must be completed	

Once you have completed the BE(Hons)/Bxx Transition Plan – Civil Engineering NEW (Commencing 2024) checklist, you may either email your checklist to the Faculty on enquiries@eait.uq.edu.au or book an appointment with an Academic Advisor directly.

	2 to 4 units from Civil Engineering Research Courses					
	CIVL4600 Research Project	1,2	2		**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**
	CIVL4604 Research Thesis	1	2		No substitution	
	CIVL4606 Research Thesis	2	4		No substitution	

	2 to 4 units from Civil Engineering Advanced Elective Courses					
	CIVL3220 Rock Mechanics	1	2		No substitution	
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3380 Structural and Steel Design	1	2		**CIVL2340** Design of Steel Structures (discontinued)	**2/22**
	CIVL3390 Integrated Structural Design	2	2		No substitution	
	CIVL3430 Sustainable Transport Engineering	1	2	**1/24**	No substitution	
	CIVL6111 Ocean, Coastal & Estuarine Engineering	2	2		**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	2	2		**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	1	2		**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	CIVL4145 Groundwater Modelling and Management	2	2		**CIVL4140** Contaminant Transport Modelling (discontinued)	**1/21**
	CIVL4230 Advanced Soil Mechanics	2	2		No substitution	
	CIVL4270 Geotechnical Investigation	1	2		No substitution	
	CIVL4280 Applied Rock Mechanics	2	2		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	

Once you have completed the BE(Hons)/Bxx Transition Plan – Civil Engineering NEW (Commencing 2024) checklist, you may either email your checklist to the Faculty on enquiries@eait.uq.edu.au or book an appointment with an Academic Advisor directly.

	CIVL4460 Highway Geometric Design	2	2		No substitution	
	CIVL4522 Analytical Methods for the Design of Construction Operations	2	2		No substitution	
	CIVL4525 Sustainable Infrastructure Design	1	2		No substitution	
	CIVL6210 Dam Engineering	2	2		No substitution	
	CIVL6215 Ground Improvement	1	2		**CIVL7215** Ground Improvement & Remediation Technologies (discontinued)	**1/23**
	CIVL6220 Mine Waste Management	1	2		No substitution	
	CIVL6250 Underground Structures	2	2		No substitution	
	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		No substitution	
	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 BE(Hons) Program Elective Courses

	8 to 12 units from Civil Engineering Advanced Electives					
	CIVL3220 Rock Mechanics	1	2		No substitution	
	CIVL3340 Structural Analysis	1	2		No substitution	
	CIVL3380 Structural and Steel Design	1	2		**CIVL2340** Design of Steel Structures (discontinued)	**2/23**
	CIVL3390 Integrated Structural Design	2	2		No substitution	
	CIVL3430 Sustainable Transport Engineering	1	2	**1/24**	No substitution	
	CIVL3420 Sustainable Transport Engineering	2	2		No substitution	

Once you have completed the BE(Hons)/Bxx Transition Plan – Civil Engineering NEW (Commencing 2024) checklist, you may either email your checklist to the Faculty on enquiries@eait.uq.edu.au or book an appointment with an Academic Advisor directly.

	CIVL6111 Ocean, Coastal & Estuarine Engineering	2	2		**CIVL4110** Coastal & Estuarine Engineering (discontinued)	**2/22**
	CIVL6112 Hydro- and Marine Power Renewable Energy Systems	2	2		No substitution	
	CIVL6121 Environmental Hydraulics and Flood Management	1	2		**CIVL4120** Advanced Hydraulic Engineering and Structures (discontinued)	**2/22**
	CIVL4145 Groundwater Modelling and Management	2	2		**CIVL4140** Contaminant Transport Modelling (discontinued)	**1/21**
	CIVL4230 Advanced Soil Mechanics	2	2		No substitution	
	CIVL4270 Geotechnical Investigation	1	2		No substitution	
	CIVL4280 Applied Rock Mechanics	2	2		**CIVL4280** Advanced Rock Mechanics	
	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	1	2		No substitution	
	CIVL6210 Dam Engineering	2	2		No substitution	
	CIVL6215 Ground Improvement	1	2		**CIVL7215** Ground Improvement & Remediation Technologies (discontinued)	**1/23**
	CIVL6220 Mine Waste Management	1	2		No substitution	
	CIVL6250 Underground Structures	2	2		No substitution	
	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		No substitution	
	FIRE3700 Introduction to Fire Safety Engineering	1	2		No substitution	
	FIRE4610 Fire Engineering Design: Solutions for Implicit Safety	1	2		No substitution	

Once you have completed the BE(Hons)/Bxx Transition Plan – Civil Engineering NEW (Commencing 2024) checklist, you may either email your checklist to the Faculty on enquiries@eait.uq.edu.au or book an appointment with an Academic Advisor directly.

	0 to 4 units from Civil Engineering Breadth Electives					
	MATH2001 Calculus & Linear Algebra II	1,2,S3	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 ***Courses on this list may require pre-requisites. Please seek academic advice if required.***					