

## Master of Engineering (Civil Engineering)

## Study Plan for commencement Semester 1

This study plan is a guide only for students commencing the Master of Engineering (Civil Engineering) in 2022. Please note that all course selections must adhere to the program course list outlined at UQ Courses and Programs. If you have any questions or concerns regarding your course selections, please speak with an Academic Advisor in the School of Civil Engineering.

### ME Compulsory & Research Project Courses

2022	Semester 1	ENGG7901 Professional engineering and business environment: Global practice	Elective	Elective	Elective
	Semester 2	ENGG7902 Engineering innovation and leadership	CIVL7505 Research methods for civil engineers	Elective	Elective
2023	Semester 1	CIVL7513 Research project	Elective	Elective	Elective
	Semester 2		Elective	Elective	Elective

*Enrol in CIVL7513 in both semesters*

CIVL7515 (#4 units) may be taken over one semester

CIVL7500 (#8 units) may be taken in lieu of CIVL7513 and two electives.

**Please see page 2 for Advanced Undergraduate Elective Courses, and Postgraduate Elective Courses**

Last modified 12/01/2022

Code	Course title	Sem	Change to course	Comment
<b>Water and Environment Elective Courses</b>				
CIVL4120	Advanced Hydraulic Engineering and Structures	2	replaced by CIVL6121	last offered 2022/2
CIVL4145	Groundwater Modelling and Management	2	replaces CIVL4140	first offered 2022/2
CIVL4170	Risk Analysis and Assessment	1		
CIVL6111	Ocean, Coastal and Estuarine Engineering	2	replaces (CIVL4110)	first offered 2023/2
CIVL6112	Hydro- and Marine Power Renewable Energy Systems	2	replaces (CIVL4110)	first offered 2023/2
CIVL6121	Environmental Hydraulics and Flood Management	1	replaces CIVL4120	first offered 2023/1
<b>Geotechnical Elective Courses</b>				
CIVL4230	Advanced Soil Mechanics	1		
CIVL4270	Geotechnical Investigation & Testing	1		
CIVL4280	Applied Rock Mechanics	2		
MINE4000	Mine Waste Management & Landform Design	1	replaced by CIVL6220	last offered 2022/1
<b>Structures Elective Courses</b>				
CIVL4332	Advanced Structural Analysis	2	replaced by CIVL6360	last offered 2022/2
CIVL4333	Advanced Concrete Design	1		
CIVL4334	Design of Timber Structures	2		
CIVL6360	Advanced Structural Analysis	2	replaces CIVL4332	first offered 2023/2
<b>Transportation Elective Courses</b>				
CIVL4450	Traffic Flow Theory and Emerging Technologies	2		
CIVL4460	Highway Geometric Design	2		
<b>Fire Safety Elective Courses</b>				
FIRE3700	Introduction to Fire Safety Engineering	1		
FIRE4610	Fire Engineering Design: Solutions for Implicit Safety	1		
<b>Civil Engineering Interdisciplinary Elective Courses</b>				
CIVL4340	Wind Engineering	1		
CIVL4522	Analytical Methods for the Design of Construction Operations	2		
<b>Water and Environment Elective Courses</b>				
CIVL7131	Urban Hydrology	1		
CIVL7135	Environmental Sensor Systems and Monitoring Techniques	1	replaced by ENVE6110	last offered 2022/1
<b>Geotechnical Elective Courses</b>				
CIVL7215	Ground Improvement & Remediation Technologies	1	replaced by CIVL6215	last offered 2022/1
CIVL7225	Dam and Embankment Engineering	2	replaced by CIVL6210	last offered 2022/2
CIVL7235	Underground Structures	2	replaced by CIVL2530	last offered 2022/2
<b>Structures Elective Courses</b>				
CIVL7315	Advanced Concrete Structures and Concrete Technology	2		
CIVL7360	Computational Design and Digital Workflows	2		
<b>Transportation Elective Courses</b>				
CIVL6412	Traffic Behavioural Modelling	2	replaces CIVL4412, CIVL7425	first offered 2022/2
CIVL7415	Spatial and Quantitative Methods for Transport Data Analytics	1		
CIVL7435	Traffic Simulation: Methods and Applications	2	replaced by CIVL6415	last offered 2022/2
<b>Fire Safety Elective Courses</b>				
FIRE7620	Fire Dynamics	2		
FIRE7660	Structural Fire Engineering	1		