

Course of Study Civil Engineering (Study Cohort w21)

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Sample course plan D Master Civil Engineering (BAUMS)

Specialisation Water and Traffic

1	Finite Elements Methods		Management of Surface Water		Study work Water and Traffic	Selected Topics in Civil Engineering (part 2)
2	Finite Element Methods	VL 2	Modelling of Flow in Rivers and Estuaries	VL 3		Selection from a catalog
3	Finite Element Methods	HÜ 2	Nature-Oriented Hydraulic Engineering / Integrated Flood Protection	PBL 2		
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7	Sustainability and Risk Management		Wastewater Systems		Water Protection	
8	Environment and Sustainability	VL 2	Advanced Wastewater Treatment	VL 2	Water Protection and Wastewater Management	VL 3
9	Safety, Reliability and Risk Assessment	SE 2	Advanced Wastewater Treatment	HÜ 1	Water Protection and Wastewater Management	PS 3
10			Wastewater Systems - Collection, Treatment and Reuse	VL 2		
11			Wastewater Systems - Collection, Treatment and Reuse	HÜ 1		
12						
13	Water Resources and -Supply		Transportation Modelling		Membrane Technology	
14	Chemistry of Drinking Water Treatment	VL 2	Transportation Modelling	PBL 4	Membrane Technology	VL 2
15	Chemistry of Drinking Water Treatment	HÜ 1			Membrane Technology	GÜ 1
16	Water Resource Management	VL 2			Membrane Technology	PR 1
17	Water Resource Management	GÜ 1				
18						
19	Integrated Transportation Planning		Modeling in Water Management		Selected Topics in Civil Engineering (part 1)	
20	Integrated Transportation Planning	PBL 4	Groundwater Modeling using Modflow	VL 1	Selection from a catalog	
21			Groundwater Modeling using Modflow	GÜ 2		
22			Modeling of Water Supply and Sewer Network	PBL 2		
23						
24						
25	Construction and Simulation of Sewerage Systems					
26	Construction and renovation of urban sewer systems	SE 3				
27	Simulation of sewerage systems	SE 3				
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30						
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33						
Business & Management (from catalogue) - 6LP						
Non-technical Courses for Master (from catalogue) - 6LP						

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

