

Course of Study Civil Engineering (Study Cohort w18)

Sample course plan D Master Civil Engineering (BAUMS)
Specialisation Water and Traffic

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

LP	Semester 1	Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk
1	Finite Elements Methods		Management of Surface Water		Study work Water and Traffic		Master Thesis	
2	Finite Element Methods	VL 2	Modelling of Flow in Rivers and Estuaries	VL 3				
3	Finite Element Methods	HÜ 2	Nature-Oriented Hydraulic Engineering / Integrated Flood Protection	PBL 2				
4								
5								
6								
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	UE 1		
16	Water Resource Management	VL 2			Membrane Technology	PR 1		
17	Water Resource Management	UE 1						
18								
19	Integrated Transportation Planning		Modeling in Water Management		Practical Course in Water and Wastewater Technology			
20	Integrated Transportation Planning	PBL 4	Applied Groundwater Modeling	VL 1	Practical Course in Water and Wastewater Technology I	PR 2		
21			Applied Groundwater Modeling	UE 2	Practical Course of Wastewater Technology II	PR 3		
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						
28								
29								
30								
Business & Management (from catalogue) - 6LP								
Nontechnical Elective Complementary 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.

