

Course of Study Civil Engineering (Study Cohort w24)

Legend
 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	Sustainable Circular Economy			Management of Surface Water		Study work Water and Traffic	Selected Topics in Civil Engineering (part 2)
2	Environment and Sustainability	VL	2	Modelling of Flow in Rivers and Estuaries	VL		Selection from a catalog
3	Circular Economy	SE	2	Nature-Oriented Hydraulic Engineering / Integrated Flood Protection	PBL		
4							
5							
6							
7	Finite elements			Hydrological Systems		Water Protection	
8	Finite elements	VL	3	Applied Surface Hydrology	VL	Water Protection and Wastewater Management	VL 3
9	Finite elements	HÜ	2	Interaction Water - Environment in Fluvial Areas	PBL	Water Protection and Wastewater Management	PS 3
10				Applied Surface Hydrology	PBL		
11							
12							
13	Water Resources and -Supply			Wastewater Systems		Membrane Technology	
14	Chemistry of Drinking Water Treatment	VL	2	Advanced Wastewater Treatment	VL	Membrane Technology	VL 2
15	Chemistry of Drinking Water Treatment	HÜ	1	Advanced Wastewater Treatment	HÜ	Membrane Technology	GÜ 1
16	Water Resource Management	VL	2	Biological Wastewater Treatment	VL	Membrane Technology	PR 1
17	Water Resource Management	GÜ	1	Biological Wastewater Treatment	HÜ		
18							
19	Integrated Transportation Planning			Transportation Modelling		Selected Topics in Civil Engineering (part 1)	
20	Integrated Transportation Planning	PBL	4	Transportation Modelling	PBL	Selection from a catalog	
21							
22							
23							
24							
25				Modeling in Water Management			
26				Groundwater Modeling using Modflow	VL		
27				Groundwater Modeling using Modflow	GÜ		
28				Modeling of Water Supply Network	PBL		
29							
30							
31							
32							
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.

