

# Course of Study Civil Engineering (Study Cohort w19)

Sample course plan D Master Civil Engineering (BAUMS)

## Specialisation Water and Traffic

		Semester 2		Semester 3		Semester 4	
		Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk
1	<b>Finite Elements Methods</b>			<b>Management of Surface Water</b>		<b>Study work Water and Traffic</b>	<b>Master Thesis</b>
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	<b>Sustainability and Risk Management</b>			<b>Wastewater Systems</b>		<b>Water Protection</b>	
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	<b>Water Resources and -Supply</b>			<b>Transportation Modelling</b>		<b>Membrane Technology</b>	
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	<b>Integrated Transportation Planning</b>			<b>Modeling in Water Management</b>		<b>Practical Course in Water and Wastewater Technology</b>	
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	GÜ 2	Practical Course of Wastewater Technology II	PR 3
22				Modeling of Water Supply and Sewer Network	PBL 2		
23							
24							
25	<b>Construction and Simulation of Sewerage Systems</b>						
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							
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.

