Course of Study Water and Environmental Engineering (Study Cohort w24)

Sample course plan C Master Water and Environmental Engineering (WUMS)

Specialisation Water

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

LP												
1	**Environmental microbiology and analytics**			**Management of Surface Water**			**Study Work Specialisation Water**			**Master Thesis**		
2	Environmental Analysis	VL	2	Modelling of Flow in Rivers and Estuaries	VL	3						
3	Environmental microbiology	VL	2	Nature-Oriented Hydraulic Engineering / Integrated Flood Protection	PBL	2						
4												
5												
6												
7	**Sustainable Circular Economy**			**Wastewater Systems**								
8	Environment and Sustainability	VL	2	Advanced Wastewater Treatment	VL	2						
9	Circular Economy	SE	2	Advanced Wastewater Treatment	HÜ	1						
10				Biological Wastewater Treatment	VL	2						
11				Biological Wastewater Treatment	HÜ	1						
12												
13	**Water Resources and -Supply**			**Hydrological Systems**			**Membrane Technology**					
14	Chemistry of Drinking Water Treatment	VL	2	Applied Surface Hydrology	VL	2	Membrane Technology	VL	2			
15	Chemistry of Drinking Water Treatment	HÜ	1	Interaction Water - Environment in Fluvial Areas	PBL	1	Membrane Technology	GÜ	1			
16	Water Resource Management	VL	2	Applied Surface Hydrology	PBL	1	Membrane Technology	PR	1			
17	Water Resource Management	GÜ	1									
18												
19	**Subsurface Processes**			**Advanced Vadose Zone Hydrology**			**Process Modeling in Water Technology**					
20	Subsurface Solute Transport	VL	2	Vadose Zone Hydrology	VL	2	Process Modeling in Drinking Water Treatment	PBL	2			
21	Subsurface Solute Transport	HÜ	1	Vadose Zone Hydrology	HÜ	2	Process Modelling of Wastewater Treatment	PBL	2			
22	Modeling of Subsurface Processes	GÜ	3	Modeling Processes in Vadose Zone	GÜ	2						
23												
24												
25							**Adaptation to Climate Change in Hydraulic Engineering (AKWAS)**					
26							Adaptation to climate change in hydraulic engineering	PBL	4			
27												
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.