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

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

Specialisation Environment

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 Spezialisation Environment**			**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**			**Water and Environment: Theory and Application**								
8	Environment and Sustainability	VL	2	Water and Environment	VL	3						
9	Circular Economy	SE	2	Water and Environment	PBL	3						
10												
11												
12												
13	**Water Protection**			**Waste and Resource Management**			**Water Resources and -Supply**					
14	Water Protection and Wastewater Management	VL	3	International waste concepts	VL	2	Chemistry of Drinking Water Treatment	VL	2			
15	Water Protection and Wastewater Management	PS	3	International waste concepts	GÜ	1	Chemistry of Drinking Water Treatment	HÜ	1			
16				Waste management	PBL	3	Water Resource Management	VL	2			
17							Water Resource Management	GÜ	1			
18												
19	**Waste Treatment and Recycling**			**Advanced Vadose Zone Hydrology**			**Biological Waste Treatment**					
20	Recycling technologies and thermal waste treatment	VL	2	Vadose Zone Hydrology	VL	2	Biological Waste Treatment	PBL	3			
21	Recycling technologies and thermal waste treatment	GÜ	1	Vadose Zone Hydrology	HÜ	2	Waste and Environmental Chemistry	PR	2			
22	Planning of waste treatment plants	PBL	3	Modeling Processes in Vadose Zone	GÜ	2						
23												
24												
25							**Subsurface Processes**					
26							Subsurface Solute Transport	VL	2			
27							Subsurface Solute Transport	HÜ	1			
28							Modeling of Subsurface Processes	GÜ	3			
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.