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

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

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	**Practical module 1 (dual study program, Master's degree)**			**Practical module 2 (dual study program, Master's degree)**			**Practical module 3 (dual study program, Master's degree)**			**Master thesis (dual study program)**		
2	Practical term 1		0	Practical term 2		0	Practical term 3		0			
3												
4												
5												
6												
7												
8												
9												
10												
11	**Environmental microbiology and analytics**			**Management of Surface Water**			**Study Work Spezialisation Environment**					
12	Environmental Analysis	VL	2	Modelling of Flow in Rivers and Estuaries	VL	3						
13	Environmental microbiology	VL	2	Nature-Oriented Hydraulic Engineering / Integrated Flood Protection	PBL	2						
14												
15												
16												
17	**Sustainable Circular Economy**			**Water and Environment: Theory and Application**								
18	Environment and Sustainability	VL	2	Water and Environment	VL	3						
19	Circular Economy	SE	2	Water and Environment	PBL	3						
20												
21												
22												
23	**Water Protection**			**Waste and Resource Management**			**Water Resources and -Supply**					
24	Water Protection and Wastewater Management	VL	3	International waste concepts	VL	2	Chemistry of Drinking Water Treatment	VL	2			
25	Water Protection and Wastewater Management	PS	3	International waste concepts	GÜ	1	Chemistry of Drinking Water Treatment	HÜ	1			
26				Waste management	PBL	3	Water Resource Management	VL	2			
27							Water Resource Management	GÜ	1			
28												
29	**Waste Treatment and Recycling**			**Advanced Vadose Zone Hydrology**			**Biological Waste Treatment**					
30	Recycling technologies and thermal waste treatment	VL	2	Vadose Zone Hydrology	VL	2	Biological Waste Treatment	PBL	3			
31	Recycling technologies and thermal waste treatment	GÜ	1	Vadose Zone Hydrology	HÜ	2	Waste and Environmental Chemistry	PR	2			
32	Planning of waste treatment plants	PBL	3	Modeling Processes in Vadose Zone	GÜ	2						
33												
34												
35							**Subsurface Processes**					
36							Subsurface Solute Transport	VL	2			
37							Subsurface Solute Transport	HÜ	1			
38							Modeling of Subsurface Processes	GÜ	3			
39												
40												

Business & Management (from catalogue) - 6LP

Linking theory and practice (dual study program, Master's degree) (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.