

Course of Study Water and Environmental Engineering (Study Cohort w14)

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	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk	
1	Biology, Geology and Chemistry			Modeling in Water Management			Project Work Water/ Waste Water			Master Thesis			
2		Environmental Analysis	VL		2	Applied Groundwater Modeling		VL	1				
3		Geology and Soil Science	VL		2	Applied Groundwater Modeling		UE	2				
4		Biology WUMS	VL		2	Modeling of Water Supply and Sewer Network		PBL	2				
5													
6													
7	Sustainability and Risk Management			Management of Surface Water			Membrane Technology						
8		Environment and Sustainability	VL		2	Modelling of Flow in Rivers and Estuaries		VL	3		Membrane Technology	VL	2
9		Safety, Reliability and Risk Assessment	SE		2	Nature-Oriented Hydraulic Engineering / Integrated Flood Protection		PBL	2		Membrane Technology	UE	1
10									Membrane Technology		PR	1	
11													
12													
13	Water Protection			Wastewater Systems			Process Modeling in Water Technology						
14		Water Protection and Wastewater Management	VL		2	Advanced Wastewater Treatment		VL	2		Process Modeling in Drinking Water Treatment	PBL	2
15					Advanced Wastewater Treatment	HÜ		1					
16		Water Protection and Wastewater Management	HÜ		1	Wastewater Systems - Collection, Treatment and Reuse		VL	2		Process Modelling of Wastewater Treatment	PBL	2
17					Wastewater Systems - Collection, Treatment and Reuse	HÜ		1					
18		Geo-Information-Systems in Water Management and Hydraulic Engineering	PBL		1								
19	Groundwater			Soil and Groundwater Contamination			Practical Course in Water and Wastewater Technology						
20		Geohydraulic and Solute Transport	VL		2	NAPL in Soil and Groundwater		VL	1		Practical Course in Water and Wastewater Technology I	PR	2
21		Geohydraulic and Solute Transport	UE		1	NAPL in Soil and Groundwater		UE	2				
22		Simulation in Groundwater Hydrology	VL		1	Contamination and Remediation		PS	3		Practicle Course of Wastewater Technology II	PR	3
23		Simulation in Groundwater Hydrology	UE		2								
24													
25	Water Resources and -Supply												
26		Chemistry of Drinking Water Treatment	VL		2								
27		Chemistry of Drinking Water Treatment	HÜ		1								
28		Water Resource Management	VL		2								
29		Water Resource Management	UE		1								
30													
Business & Management (from catalogue) - 6LP													
Nontechnical Elective Complementary 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.

