

# Course of Study Water and Environmental Engineering (Study Cohort w17)

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

Legend:

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	<b>Biology, Geology and Chemistry</b>		<b>Modeling in Water Management</b>		<b>Study Work Water/ Waste Water</b>		<b>Master Thesis</b>	
2	Environmental Analysis	VL 2	Applied Groundwater Modeling	VL 1				
3	Geology and Soil Science	VL 2	Applied Groundwater Modeling	UE 2				
4	Biology	VL 2	Modeling of Water Supply and Sewer Network	PBL 2				
5								
6								
7	<b>Sustainability and Risk Management</b>		<b>Management of Surface Water</b>		<b>Membrane Technology</b>			
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	<b>Water Protection</b>		<b>Wastewater Systems</b>		<b>Process Modeling in Water Technology</b>			
14	Water Protection and Wastewater Management	SE 2	Advanced Wastewater Treatment	VL 2	Process Modeling in Drinking Water Treatment	PBL 2		
15	Water Protection and Wastewater Management	HÜ 1	Advanced Wastewater Treatment	HÜ 1	Process Modelling of Wastewater Treatment	PBL 2		
16	Water Protection and Wastewater Management	HÜ 1	Wastewater Systems - Collection, Treatment and Reuse	VL 2				
17	Geo-Information-Systems in Water Management and Hydraulic Engineering	PBL 2	Wastewater Systems - Collection, Treatment and Reuse	HÜ 1				
18								
19	<b>Groundwater</b>		<b>Soil and Groundwater Contamination</b>		<b>Practical Course in Water and Wastewater Technology</b>			
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	Practical Course of Wastewater Technology II	PR 3		
22	Simulation in Groundwater Hydrology	VL 1	Contamination and Remediation	PS 3				
23	Simulation in Groundwater Hydrology	UE 2						
24								
25	<b>Water Resources and -Supply</b>							
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.