

# Course of Study Water and Environmental Engineering (Study Cohort w19)

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

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>Urban Environmental Management</b>		<b>Study Work Cities</b>		<b>Master Thesis</b>	
2	Environmental Analysis	VL 2	Urban Infrastructures	PBL 2				
3	Geology and Soil Science	VL 2	Noise Protection	VL 2				
4	Biology	VL 2						
5								
6								
7	<b>Sustainability and Risk Management</b>		<b>Wastewater Systems</b>		<b>Special Aspects of Waste Resource Management</b>			
8	Environment and Sustainability	VL 2	Advanced Wastewater Treatment	VL 2	International Waste Management	PBL 2		
9	Safety, Reliability and Risk Assessment	SE 2	Advanced Wastewater Treatment	HÜ 1	Advanced Topics in Waste Resource Management	PBL 3		
10			Wastewater Systems - Collection, Treatment and Reuse	VL 2				
11			Wastewater Systems - Collection, Treatment and Reuse	HÜ 1				
12								
13	<b>Environmental Protection and Management</b>		<b>City Planning</b>		<b>Water Resources and -Supply</b>			
14	Health, Safety and Environmental Management	VL 2	City Planning	PBL 4	Chemistry of Drinking Water Treatment	VL 2		
15					Chemistry of Drinking Water Treatment	HÜ 1		
16	Health, Safety and Environmental Management	UE 1			Water Resource Management	VL 2		
17					Water Resource Management	UE 1		
18	Integrated Pollution Control	VL 2						
19	<b>Wastewater Treatment and Air Pollution Abatement</b>		<b>Waste Treatment and Solid Matter Process Technology</b>		<b>Process Modeling in Water Technology</b>			
20	Air Pollution Abatement	VL 2	Solid Matter Process Technology for Biomass	VL 2	Process Modeling in Drinking Water Treatment	PBL 2		
21	Biological Wastewater Treatment	VL 2	Thermal Waste Treatment	VL 2	Process Modelling of Wastewater Treatment	PBL 2		
22			Thermal Waste Treatment	HÜ 1				
23								
24								
25	<b>Integrated Transportation Planning</b>							
26	Integrated Transportation Planning	PBL 4						
27								
28								
29								
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.

