

# Course of Study Water and Environmental Engineering (Study Cohort w18)

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	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>Electricity Generation from Wind and Hydro Power</b>		<b>Study Work Environment</b>		<b>Master Thesis</b>							
2									Environmental Analysis	VL	2	Wind Turbine Plants	VL	2
3									Geology and Soil Science	VL	2	Wind Energy Use - Focus Offshore	VL	1
4									Biology	VL	2	Hydro Power Use	VL	1
5												Renewable Energy Projects in Emerged Markets	PS	1
6														
7	<b>Sustainability and Risk Management</b>		<b>Waste Treatment and Solid Matter Process Technology</b>		<b>Waste Treatment Technologies</b>									
8									Environment and Sustainability	VL	2	Biological Waste Treatment	PBL	3
9									Safety, Reliability and Risk Assessment	SE	2	Solid Matter Process Technology for Biomass	VL	2
10												Thermal Waste Treatment	VL	2
11												Thermal Waste Treatment	HÜ	1
12														
13	<b>Water Protection</b>		<b>Management of Surface Water</b>		<b>Groundwater</b>									
14									Water Protection and Wastewater Management	VL	3	Modelling of Flow in Rivers and Estuaries	VL	3
15												Nature-Oriented Hydraulic Engineering / Integrated Flood Protection	PBL	2
16									Water Protection and Wastewater Management	PS	3	Geohydraulic and Solute Transport	UE	1
17				Simulation in Groundwater Hydrology	VL	1								
18				Simulation in Groundwater Hydrology	UE	2								
19	<b>Environmental Protection and Management</b>		<b>Soil and Groundwater Contamination</b>		<b>Water Resources and -Supply</b>									
20									Health, Safety and Environmental Management	VL	2	NAPL in Soil and Groundwater	VL	1
21												NAPL in Soil and Groundwater	UE	2
22									Health, Safety and Environmental Management	UE	1	Contamination and Remediation	PS	3
23												Chemistry of Drinking Water Treatment	VL	2
24	Integrated Pollution Control	VL	2	Water Resource Management	VL	2								
25				Water Resource Management	UE	1								
26	<b>Wastewater Treatment and Air Pollution Abatement</b>													
27									Air Pollution Abatement	VL	2			
28									Biological Wastewater Treatment	VL	2			
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.

