

Course of Study Water and Environmental Engineering (Study Cohort w22)

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

Specialisation Water											
1	Biology, Geology and Chemistry Environmental Analysis VL 2 Geology and Soil Science VL 2 Biology VL 2			Modeling in Water Management Groundwater Modeling using Modflow VL 1 Groundwater Modeling using Modflow GÜ 2 Modeling of Water Supply Network PBL 2			Study Work Water/ Waste Water			Master Thesis	
2											
3											
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5											
6											
7	Sustainability and Risk Management Environment and Sustainability VL 2 Safety, Reliability and Risk Assessment SE 2			Management of Surface Water Modelling of Flow in Rivers and Estuaries VL 3 Nature-Oriented Hydraulic Engineering / Integrated Flood Protection PBL 2			Membrane Technology Membrane Technology VL 2 Membrane Technology GÜ 1 Membrane Technology PR 1				
8											
9											
10											
11											
12											
13	Water Resources and -Supply Chemistry of Drinking Water Treatment VL 2 Chemistry of Drinking Water Treatment HÜ 1 Water Resource Management VL 2 Water Resource Management GÜ 1			Wastewater Systems Advanced Wastewater Treatment VL 2 Advanced Wastewater Treatment HÜ 1 Wastewater Systems - Collection, Treatment and Reuse VL 2 Wastewater Systems - Collection, Treatment and Reuse HÜ 1			Process Modeling in Water Technology Process Modeling in Drinking Water Treatment PBL 2 Process Modelling of Wastewater Treatment PBL 2				
14											
15											
16											
17											
18											
19	Construction and Simulation of Sewerage Systems Construction and renovation of urban sewer systems SE 3 Simulation of sewerage systems SE 3			Advanced Vadose Zone Hydrology Vadose Zone Hydrology VL 2 Vadose Zone Hydrology HÜ 2 Modeling Processes in Vadose Zone GÜ 2			Adaptation to Climate Change in Hydraulic Engineering (AKWAS) Adaptation to climate change in hydraulic engineering PBL 4				
20											
21											
22											
23											
24											
25	Subsurface Processes Subsurface Solute Transport VL 2 Subsurface Solute Transport HÜ 1 Modeling of Subsurface Processes GÜ 3										
26											
27											
28											
29											
30											
Business & Management (from catalogue) - 6LP											
Non-technical 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.

