

Course of Study Water and Environmental Engineering (Study Cohort w21)

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

Core Qualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory
 Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Interdisciplinary complement

Specialisation Water			
1	Biology, Geology and Chemistry		Modeling in Water Management
2	Environmental Analysis VL 2		Groundwater Modeling using Modflow VL 1
3	Geology and Soil Science VL 2		Groundwater Modeling using Modflow GÜ 2
4	Biology VL 2		Modeling of Water Supply and Sewer Network PBL 2
5			
6			
7	Sustainability and Risk Management		Management of Surface Water
8	Environment and Sustainability VL 2		Modelling of Flow in Rivers and Estuaries VL 3
9	Safety, Reliability and Risk Assessment SE 2		Nature-Oriented Hydraulic Engineering / Integrated Flood Protection PBL 2
10			
11			
12			
13	Water Resources and -Supply		Wastewater Systems
14	Chemistry of Drinking Water Treatment VL 2		Advanced Wastewater Treatment VL 2
15	Chemistry of Drinking Water Treatment HÜ 1		Advanced Wastewater Treatment HÜ 1
16	Water Resource Management VL 2		Wastewater Systems - Collection, Treatment and Reuse VL 2
17	Water Resource Management GÜ 1		Wastewater Systems - Collection, Treatment and Reuse HÜ 1
18			
19	Construction and Simulation of Sewerage Systems		Advanced Vadose Zone Hydrology
20	Construction and renovation of urban sewer systems SE 3		Vadose Zone Hydrology VL 2
21	Simulation of sewerage systems SE 3		Vadose Zone Hydrology HÜ 2
22			Modeling Processes in Vadose Zone VL 1
23			Modeling Processes in Vadose Zone GÜ 1
24			
25	Subsurface Processes		
26	Modern Techniques for Subsurface Solute Transport VL 2		
27	Modern Techniques for Subsurface Solute Transport HÜ 1		
28	Modeling of Subsurface Processes VL 2		
29	Modeling of Subsurface Processes GÜ 1		
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.

