

Course of Study Civil Engineering (Study Cohort w24)

Sample course plan D Master Civil Engineering (BAUMS)

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

Specialisation Water and Traffic

1	Sustainable Circular Economy Environment and Sustainability VL 2 Circular Economy SE 2	Management of Surface Water Modelling of Flow in Rivers and Estuaries VL 3 Nature-Oriented Hydraulic Engineering / Integrated Flood Protection PBL 2	Study work Water and Traffic	Selected Topics in Civil Engineering (part 2) Selection from a catalog			
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7	Finite elements Finite elements VL 3 Finite elements HÜ 2	Hydrological Systems Applied Surface Hydrology VL 2 Interaction Water - Environment in Fluvial Areas PBL 1 Applied Surface Hydrology PBL 1	Membrane Technology Membrane Technology VL 2 Membrane Technology GÜ 1 Membrane Technology PR 1	Master Thesis			
8							
9							
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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 Biological Wastewater Treatment VL 2 Biological Wastewater Treatment HÜ 1	Selected Topics in Civil Engineering (part 1) Selection from a catalog	Master Thesis			
14					Water Protection Water Protection IV 6		
15							
16							
17			Integrated Transportation Planning Integrated Transportation Planning PBL 4		Transportation Modelling Transportation Modelling PBL 4	Water Protection Water Protection IV 6	Master Thesis
18							
19							
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21							
22							
23	Modeling in Water Management Groundwater Modeling using Modflow VL 1 Groundwater Modeling using Modflow GÜ 2 Modeling of Water Supply Network PBL 2			Master Thesis			
24							
25							
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33							
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.

