

Course of Study Civil Engineering (Study Cohort w24)

Sample course plan D Master Civil Engineering (BAUMS) Dual study program

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|--|------------------------------------|---------------------------|------------------------------|
| 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

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|--|---|---|---|--|
| 1 | Practical module 1 (dual study program, Master's degree) | Practical module 2 (dual study program, Master's degree) | Practical module 3 (dual study program, Master's degree) | Selected Topics in Civil Engineering (part 2) |
| 2 | Practical term 1 0 | Practical term 2 0 | Practical term 3 0 | Selection from a catalog |
| 3 | | | | Master thesis (dual study program) |
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| 11 | Sustainable Circular Economy | Management of Surface Water | Study work Water and Traffic | |
| 12 | Environment and Sustainability VL 2 | Modelling of Flow in Rivers and Estuaries VL 3 | | |
| 13 | Circular Economy SE 2 | Nature-Oriented Hydraulic Engineering / Integrated Flood Protection PBL 2 | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | Finite elements | Hydrological Systems | Water Protection | |
| 18 | Finite elements VL 3 | Applied Surface Hydrology VL 2 | Water Protection and Wastewater Management VL 3 | |
| 19 | Finite elements HÜ 2 | Interaction Water - Environment in Fluvial Areas PBL 1 | Water Protection and Wastewater Management PS 3 | |
| 20 | | Applied Surface Hydrology PBL 1 | | |
| 21 | | | | |
| 22 | | | | |
| 23 | Water Resources and -Supply | Wastewater Systems | Membrane Technology | |
| 24 | Chemistry of Drinking Water Treatment VL 2 | Advanced Wastewater Treatment VL 2 | Membrane Technology VL 2 | |
| 25 | Chemistry of Drinking Water Treatment HÜ 1 | Advanced Wastewater Treatment HÜ 1 | Membrane Technology GÜ 1 | |
| 26 | Water Resource Management VL 2 | Biological Wastewater Treatment VL 2 | Membrane Technology PR 1 | |
| 27 | Water Resource Management GÜ 1 | Biological Wastewater Treatment HÜ 1 | | |
| 28 | | | | |
| 29 | Integrated Transportation Planning | Transportation Modelling | Selected Topics in Civil Engineering (part 1) | |
| 30 | Integrated Transportation Planning PBL 4 | Transportation Modelling PBL 4 | Selection from a catalog | |
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| 35 | | Modeling in Water Management | | |
| 36 | | Groundwater Modeling using Modflow VL 1 | | |
| 37 | | Groundwater Modeling using Modflow GÜ 2 | | |
| 38 | | Modeling of Water Supply Network PBL 2 | | |
| 39 | | | | |
| 40 | | | | |
| Business & Management (from catalogue) - 6LP | | | | |
| Linking theory and practice (dual study program, Master's degree) (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.

