

Water Engineering and Management 2024-2025

PROFILES

| Integrated Water Management | | | River and Coastal Engineering | | |
|--|----|----------|--|----|----------|
| Profile Courses (≥25 EC) | EC | Quartile | Profile Courses (≥25 EC) | EC | Quartile |
| Civil Engineering Challenges* | 5 | 1 | Civil Engineering Challenges* | 5 | 1 |
| Water Footprint Assessment | 5 | 1 | River Flow Processes | 5 | 1 |
| Hydrology | 5 | 1 | Long Waves and Tidal Morphodynamics | 5 | 1 |
| Hydrological Modelling and Forecasting | 5 | 2 | Wave-Dominated Coastal Dynamics | 5 | 1 |
| Sustainable Engineering | 5 | 3 | Morphology* | 5 | 2 |
| Integrated Water Management | 5 | 3 | Mathematical Physics of Water Systems | 5 | 3 |
| Urban Resilience in a Changing Climate | 5 | 3 | Hydraulic Modelling | 5 | 3 |
| Water and Climate | 5 | 4 | River Morphodynamics | 5 | 4 |
| Profile Electives (~40 EC) | | | Profile Electives (~40 EC) | | |
| <i>- Free to choose any of the CEM courses offered (pay attention to the required prior knowledge)</i> | | | <i>- Free to choose any of the CEM courses offered (pay attention to the required prior knowledge)</i> | | |
| <i>- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)</i> | | | <i>- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)</i> | | |
| Suggested Profile Electives | EC | Quartile | Suggested Profile Electives | EC | Quartile |
| Water Quality | 5 | 1 | Water Quality | 5 | 1 |
| River Flow Processes | 5 | 1 | Hydrology | 5 | 1 |
| Data Analysis in Water Engineering and Management | 5 | 2 | Data Analysis in Water Engineering and Management | 5 | 2 |
| Circular Systems Engineering | 5 | 3 | Hydrological Modelling and Forecasting | 5 | 2 |
| Hydraulic Engineering | 5 | 3 | Hydraulic Engineering | 5 | 3 |
| Building with Nature | 5 | 4 | Advanced Soil Mechanics | 5 | 3 |
| | | | Building with Nature | 5 | 4 |
| | | | Water and Climate | 5 | 4 |
| | | | Geo Risk Assessment | 5 | 4 |

GENERAL COURSES

| Free Electives (max 15 EC) | EC | Quartile | Free Electives (max 15 EC) | EC | Quartile |
|---|----|----------|---|----|----------|
| Any course from UT or approved other university** | | | Any course from UT or approved other university** | | |
| <i>On the CEM/CME Canvas page there is a list of courses from other MSc programmes available that fit this track. In some occasions, you can include courses from other programmes as a profile elective. In that case you need approval of your track-coordinator.</i> | | | <i>On the CEM/CME Canvas page there is a list of courses from other MSc programmes available that fit this track. In some occasions, you can include courses from other programmes as a profile elective. In that case you need approval of your track-coordinator.</i> | | |
| Other usefull courses (0 EC) | EC | Quartile | Other usefull courses (0 EC) | EC | Quartile |
| Boost your Competences | 0 | 1,2,3,4 | Boost your Competences | 0 | 1,2,3,4 |
| Thesis *** | EC | Quartile | Thesis *** | EC | Quartile |
| Academic Research Skills in CEM/CME | 5 | 2,4 | Academic Research Skills in CEM/CME | 5 | 2,4 |
| Preparation Master Thesis | 5 | - | Preparation Master Thesis | 5 | - |
| Master Thesis Water | 30 | - | Master Thesis Water | 30 | - |

PLANNING AND CONSULTATION FOR THE MASTER PROFILES

Track-coordinator: Dr.ir. Bas Borsje
Coordinator Master Thesis: Dr.ir. Martijn Boij

* Second year MSc course

** an "approved university" is any university in The Netherlands (not HBO-schools), or any international university that is partner of the UT or of the faculty of ET.

The Free Electives should be at MSc-level and should have no overlap with other courses in your programme. For courses from other universities, contact your track-coordinator.

*** [Click here for the procedure of how to start the course Preparation MSc-thesis and your MSc-thesis project](#)