Field of Study 1 - Urban Water Engineering

Master of Science in Environmental Engineering

Students specializing in this FoS are familiar with energy-efficient water and wastewater treatment processes, water reclamation and reuse, storm water management, and the design of drainage systems to establish safe and sustainable urban water systems. Students are able to plan and design treatment facilities and processes for traditional and emerging contaminants including process modelling and water quality and performance monitoring strategies. In addition, students are able to design energy recovery strategies and processes from waste streams.

Required Modules

BGU38014	Water and Wastewater Treatment Engineering
NN	Advanced Water Treatment and Anaerobic Processes

Elective Modules

NN	Natural Engineered Systems
BV180004	Modelling of Water Quality in Aquatic Systems
BV180006	Hydrochemistry
BV180051	Hydrochemistry Lab
NN	Industrial Wastewater Treatment and Reuse
NN	Planung, Bau und Betrieb von Kläranlagen
BGU38011	Bewirtschaftung von Kanalnetzen und Regenwassermanagement
BV380004	Microbiology of Groundwater Ecosystems
NN	Desalination
NN	Aquatic Ecology and Conservation
BV150050	Environmental Geology/ Geochemistry

Pending module codes will be updated before the beginning of the semester.