

Field of Study 5 - Modelling of Flow and Transport

Master of Science in Environmental Engineering

Students of this FoS are capable of modelling flow and transport processes of compounds in the environment. The focus is on development and proper use of micro- and macroscopic models like hydrological models at the watershed scale or turbulent flows of surface water and the atmosphere

Required Modules

- NN Fluid Mechanics and Transport Mechanisms
- BGU54008T2 Hydrological and Environmental River Basin Modelling

Elective Modules

- BV410004 Fluid Mechanics Lab
- NN Numerical River Hydraulics
- BV040053 Computational Fluid Dynamics
- NN Modeling and Simulation of Turbulent Flows
- BV410005 Hydraulik Praktikum
- BGU46033 Modelltechnische und flussbauliche Übungen an der Versuchsanstalt Oberrach
- BGU46030 Ecological Modelling of Surface Waters
- NN Modeling of groundwater/ surface water Interaction
- BGU54013T2 Rainfall and Runoff Modelling
- BGU54016 Process based modelling of mesoscale pre-alpine catchments

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