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 Obernach
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.