

Field of Study 9 - Sustainable Urban Mobility Planning

Master of Science in Environmental Engineering

Students of this FoS are familiar with interactions of urban planning, mobility and transportation; specifically with the mid-term and long-term mobility decisions of travellers and their impact on the sustainability of the transport system. They develop and apply strategic measures of traffic and mobility management aiming in influencing urban mobility with respect to the goals of sustainable urban development, clean air policies and social inclusion. The measures span from planning of land use patterns, strategies of land mobilization, strengthening active modes and neighbourhood mobility up to large-scale schemes for pollution control. They are able to model the interaction between land use and transport on mesoscopic and macroscopic levels.

Required Modules

- BV580008 Modelling of Environmental Effects in Transportation
- BV520007 Land Use and Transportation - Interactions and Strategies

Elective Modules

- BV520009 Project Appraisal and Planning Processes in Transportation
- BV520008 Land Use and Transportation Modelling
- BGU68001 Spatial Modelling: Tools to evaluate planning strategies
- BV580013 Local Public Transport Strategy and Organisation
- BV400009 Land Management and Land Policy
- BGU56041 Transport Planning and Traffic Engineering Concepts for Electric Mobility
- BV560009 Public Transport Operations and Supply
- BV560011 Governance
- BGU52016 Evaluation of Transport Projects and Policies
- BV210013 Stadt- und Regionalplanung
- NN Kolloquium Öffentlicher Verkehr und Stadtentwicklung

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