

## COURSE DETAIL

### URBAN ECOHYDROLOGY

**Country**

Germany

**Host Institution**

Technical University Berlin

**Program(s)**

Technical University Berlin

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Urban Studies Environmental Studies

**UCEAP Course Number**

106

**UCEAP Course Suffix****UCEAP Official Title**

URBAN ECOHYDROLOGY

**UCEAP Transcript Title**

URBAN ECOHYDROLOGY

**UCEAP Quarter Units**

5.50

**UCEAP Semester Units**

3.70

## Course Description

The urban ecohydrology contains a theoretical part which comprises all aspects related to the urban water cycle including urban rainfall pattern, water availability, groundwater recharge, urban rivers and drainage (traditional and sustainable approaches), urban waterscapes and alternative perspectives for water in cities, and the specific requirements for urban green including urban rainwater gardens, green roofs and facades and aspects of water shortage and heat stress on urban green conditions. Specific requirements of mega-cities and urban areas in developing countries will be assessed. In a practical part of the module, students will learn how to use simple modelling software for the calculation of greywater use and for the configuration of sustainable drainage systems including sustainable rainwater management. In the excursion part, students will get the chance to visit and study different elements of urban water, including e.g. excursions to a sewage treatment plant, the implementations of the water framework directive for urban rivers, integrated rain and grey water management of office blocks, and green wall installations (excursions will vary according to the availability of invited guides).

### Language(s) of Instruction

English

### Host Institution Course Number

61101

### Host Institution Course Title

URBAN ECOHYDROLOGY

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Institut für Ökologie

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