

COURSE DETAIL

URBAN ECOSYSTEMS: STRUCTURES, FUNCTIONS AND DESIGNS

Country

Denmark

Host Institution

University of Copenhagen

Program(s)

University of Copenhagen

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Urban Studies Environmental Studies

UCEAP Course Number

143

UCEAP Course Suffix**UCEAP Official Title**

URBAN ECOSYSTEMS: STRUCTURES, FUNCTIONS AND DESIGNS

UCEAP Transcript Title

URBAN ECOSYSTEMS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course focuses on the ability of green infrastructures to contribute to resource management, climate adaptation, and social-cultural performance of urbanized areas. The main focus of the course is on the freshwater cycle in urban settings and there is a special focus on adaptation to more extreme weather conditions, especially stormwater management and flood control. The interdisciplinary course, relevant for urban designers and planners as well as for agronomists, geographers, and biologists, encourages a transfer of scientific knowledge into new urban designs at multiple scales to increase sustainability and climate resilience. The course contains a number of lectures in which relevant knowledge from environmental chemistry, agronomy, climatology, and biology is presented. The lectures are supported by several exercises and study tours for a better understanding. By means of innovative learning methods, the theory is transferred to design criteria and specific design proposals.

Language(s) of Instruction

English

Host Institution Course Number

LNAK10028U

Host Institution Course Title

URBAN ECOSYSTEMS: STRUCTURES, FUNCTIONS AND DESIGNS

Host Institution Campus

Host Institution Faculty

Science

Host Institution Degree

Master

Host Institution Department

Geoscience and Natural Resource Management

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