

COURSE DETAIL

WATER, SOCIETY, AND CLIMATE CHANGE

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies Civil Engineering

UCEAP Course Number

141

UCEAP Course Suffix**UCEAP Official Title**

WATER, SOCIETY, AND CLIMATE CHANGE

UCEAP Transcript Title

WATER SOC & CLIMATE

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides methodologies and tools for the adaptation of water resource systems with respect to climate change and climate variability. The course provides a fundamental understanding of the physical processes behind climate change and its effects on the hydrological cycle. Course topics include the climate of the world, global circulation patterns, climate variability, basic meteorology, rain-generating processes, downscaling in time and space, changes in rainfall patterns, extreme events, disaster risk reduction, sea level change and its consequences on near-shore constructions, urban hydrology, maintaining quality drinking water in a changing climate, and problems unique to arid areas and developing countries.

Language(s) of Instruction

English

Host Institution Course Number

VVRN20

Host Institution Course Title

WATER, SOCIETY, AND CLIMATE CHANGE

Host Institution Campus

Lund

Host Institution Faculty

Engineering

Host Institution Degree

Host Institution Department

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