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 Course Details
https://kurser.lth.se/lot/course-syllabus/23_24/VVRN20

Host Institution Campus
Lund

Host Institution Faculty
Engineering

Host Institution Degree

Host Institution Department

Course Last Reviewed
2022-2023

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