

# COURSE DETAIL

## HYDROLOGY AND AQUATIC ECOLOGY

**Country**

Sweden

**Host Institution**

Lund University

**Program(s)**

Lund University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Engineering Civil Engineering

**UCEAP Course Number**

154

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

HYDROLOGY AND AQUATIC ECOLOGY

**UCEAP Transcript Title**

HYDRO&AQUATIC ECOL

**UCEAP Quarter Units**

12.00

**UCEAP Semester Units**

8.00

## **Course Description**

This course provides students with a holistic view of the water environment so that it treats water both from physical and biological viewpoints. The main topics are: water resources, the hydrological cycle and processes, lakes and running water, ecological concepts, nutrient cycles, human impact. The course contents cover water resources and water circulation (hydrological processes, precipitation, evaporation, infiltration, soil, and groundwater and runoff) and also the circulation of nutrients, food webs, water chemistry, and species knowledge (ecological relationship between organisms and the aquatic environment). The course is divided in to three blocks: 1) Physical/chemical mechanisms, 2) Organisms, and 3) Restoration. Block 1 and Block 2 are covered mainly during period 1 and block 3 is covered during period 2.

## **Language(s) of Instruction**

English

## **Host Institution Course Number**

VVRA01

## **Host Institution Course Title**

HYDROLOGY AND AQUATIC ECOLOGY

## **Host Institution Campus**

Engineering

## **Host Institution Faculty**

## **Host Institution Degree**

## **Host Institution Department**

Engineering- Water Resource Engineering

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