

*Course syllabus*

# Internationell sommarforskarskola i vattenresurslära International Summer Water Resources Research School

**VVRF05, 7,5 credits, G2 (First Cycle)**

**Valid for:** 2023/24

**Faculty:** Faculty of Engineering, LTH

**Decided by:** PLED W

**Date of Decision:** 2023-03-27

## General Information

**Main field:** Technology.

**Elective for:** V4, W3

**Language of instruction:** The course will be given in English

## Aim

The aim is that the students should gain proficiency to work in a cross-cultural group in a foreign environment, and get deepened knowledge about environmental and water related issues within the framework of a minor research project.

## Learning outcomes

### *Knowledge and understanding*

For a passing grade the student must

- demonstrate ability to analyse an issue related to water and/or the environment on the basis of relevant scientific facts and principles,
- demonstrate advanced scientific and/or engineering knowledge gained within the context of a minor research project.

### *Competences and skills*

For a passing grade the student must

- demonstrate ability to, within a project group, be able to identify, formulate and solve a problem and complete a project within a given time frame,

- demonstrate ability to orally and in writing present and discuss information, problems and solutions in dialogue with multicultural groups.

#### *Judgement and approach*

For a passing grade the student must

- demonstrate ability to make judgments considering scientific, social and ethical aspects in the context of a given project,
- demonstrate understanding of the role of knowledge in society and the responsibility associated with its use.

## Contents

The course is given within the framework of a summer research school offered at Xiamen University, China. Within the course a minor research project is carried out in a team with Chinese students. The project is related to ongoing research at Xiamen University and deals with marine ecology, marine chemistry, water resource management or related topics.

Before departure to China at least two obligatory seminars are given aiming to prepare the students for the teaching period in China. After return from China the projects and experiences are presented and discussed at seminars on LTH Campus.

## Examination details

**Grading scale:** UG - (U,G) - (Fail, Pass)

**Assessment:** Participation in seminars prior and after the study period in China. Written and oral presentation of project at Xiamen University.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

## Admission

**Admission requirements:**

- 90 university credits awarded within MSc program in Environmental engineering or 90 university credits awarded within MSc program in Civil engineering

**The number of participants is limited to: 8**

**Selection:** Credits awarded or credited within the study program and interview. Priority is given to students enrolled on programmes that include the course in their curriculum.

**The course might be cancelled:** If the number of applicants is less than 4.

## Reading list

- The teacher/supervisor decides what kind of literature is to be used with regards to the needs of each project.

## Contact and other information

**Course coordinator:** Linus Zhang, [linus.zhang@tvrl.lth.se](mailto:linus.zhang@tvrl.lth.se)

**Course homepage:** <http://www.tvrl.lth.se/utbildning/courses/>

**Further information:** Most of the course is taught outside normal semester time. The course will be cancelled if the agreement with Xiamen University is not prolonged.