

# Syllabus

for course at advanced level

**Advanced Hydrology**  
**Avancerad hydrologi**

**7.5 Higher Education  
Credits**  
**7.5 ECTS credits**

<b>Course code:</b>	GE8032
<b>Valid from:</b>	Spring 2020
<b>Date of approval:</b>	2019-08-19
<b>Department</b>	Department of Physical Geography
<b>Main field:</b>	Physical Geography and Quaternary Geology
<b>Specialisation:</b>	A1F - Second cycle, has second-cycle course/s as entry requirements

## Decision

This syllabus has been approved by the Board of Science at Stockholm University 2019-08-19.

## Prerequisites and special admittance requirements

Admission to the course requires knowledge equivalent to the course Local to Global Water Vulnerability and Resilience, 15 ECTS credits (GE7025). Also required is knowledge equivalent to Swedish upper secondary school course English 6.

## Course structure

Examination code	Name	Higher Education Credits
HELA	Advanced Hydrology	7.5

## Course content

The course deals with the theory required for advanced studies and research in the fields of hydrology and water resources. Central to the course is the knowledge and methods to understand water flows, water availability, waterborne transport and the variability and change of water resources.

## Learning outcomes

After the course, students are expected to:

- integrate the theory and the scientific methods for hydrological themes considered at an advanced level
- identify, formulate, solve and present problems related to water flow, waterborne transport and the variability and change of water resources.

## Education

Instruction consists of lectures, seminars and exercises.

Participation in lectures, seminars and exercises, and any associated integrated instruction is compulsory. In the event of special circumstances, the examiner may, after consultation with the teacher concerned, grant a student exemption from the obligation to participate in certain compulsory instruction.

Instructions are in English.

## Forms of examination

a. The course is examined as follows: Knowledge assessment takes the form of:

- written examination of exercises
- written examinations.

Examination is in English.

b. Grades will be set according to a seven-point scale related to the learning objectives of the course:

A = Excellent

B = Very good

C = Good

D = Satisfactory

E = Adequate

Fx = Fail, some additional work required

F = Fail, much additional work required

c. The grading criteria will be distributed at the beginning of the course.

d. In order to pass the course, students must receive a passing grade on all course units and participate in all mandatory instruction.

e. Students who receive a failing grade on a regular examination are allowed to retake the examination as long as the course is still provided. The number of examination opportunities is not limited. Other mandatory course elements are equated with examinations. A student who has received a passing grade on an examination may not retake the examination to attain a higher grade. A student who has failed the same examination twice is entitled to have another examiner appointed, unless there are special reasons to the contrary. Such requests should be made to the department board.

The course includes at least two examination opportunities per year when the course is given. At least one examination opportunity will be offered during a year when the course is not given.

f. Students awarded the grade Fx are given the opportunity to improve their grade to E. The examiner decides the supplementary assignments to be performed and the pass mark criteria. The supplementary assignments will take place before the next examination session.

### **Interim**

Students may request that the examination be conducted in accordance with this course plan even after it has ceased to be valid. However, this may not take place more than three times over a two year period after course instruction has ended. Requests must be made to the departmental board. The provision also applies in the case of revisions to the course plan and the revisions of the course literature.

### **Limitations**

The course may not be included in examinations in combination with courses Advanced Hydrology (GE8024) or equivalent.

### **Misc**

The course can be a part of Master's Programme in Hydrology, Hydrogeology and Water Resources but can also be read as a separate course.

### **Required reading**

The course literature is decided by the department board and published on the Department of Physical Geography's website at least two months before the start of the course.