

## Syllabus

for course at second level

**Landskapsekologi - teori och design**

**15.0 Higher Education Credits**

**Landscape Ecology - Theory and Design**

**15.0 ECTS credits**

<b>Course code:</b>	GE7096
<b>Valid from:</b>	Autumn 2025
<b>Date of approval:</b>	2024-06-03
<b>Changed:</b>	2024-06-14
<b>Department:</b>	Department of Physical Geography
<b>Subject group:</b>	Earth Science and Physical Geography
<b>Specialisation:</b>	A1N - Second cycle, has only first-cycle course/s as entry requirements
<b>Main field:</b>	Physical Geography and Quaternary Geology

### Decision

Finalized by: Områdesnämnden för naturvetenskap, 2024-06-03

### Prerequisites and special admittance requirements

For admission to the course, knowledge is required equivalent to 90 higher education credits (HECs) in Biology, Biology-earth sciences, Geography, Earth science or Environmental science. Also required is 7,5 HECs in Ecology, or Biogeography, 7,5 credits (GE5049).

Also required is knowledge equivalent to Swedish upper secondary school course English 6.

### Course structure

Examination code	Name	Higher Education Credits
HELA	Landscape Ecology - Theory and Design	15.0

### Course content

This course addresses how landscape changes affect ecological processes, ecosystems and species distributions. Various landscape ecological theories are presented and discussed, along with how local and regional physical geography conditions have resulted in socioeconomic decisions and their impact on ecological patterns and ecosystems. Furthermore, the course addresses how changes in land use and climate may affect species occurrence and conservation strategies from a landscape perspective. The course has a focus on conservation issues that include both spatial processes and temporal effects, such as lag effects on today's species richness. It covers different ways to design landscape ecological experiments for field data collection and further analysis.

### Learning outcomes

After completing the course, the student is expected to be able to:

- utilize knowledge of landscape ecological theories and the effects of time and space to critically analyze

various conservation issues

- explain and describe how socioeconomic decisions can influence ecological patterns and ecosystems
- explain the relationship between experimental design and landscape ecological theory
- apply landscape ecological theories and methods for the analysis of flora and fauna at the landscape level
- design a landscape ecological experiment based on a problem statement
- conduct a constructive and critical review of a landscape ecological experimental design.

## **Education**

Teaching consists of lectures, field trip, seminars, exercises and project work.

The course is offered in English.

## **Forms of examination**

a. The course is examined as follows: Assessment takes place through

- written and oral exams
- written examination and oral presentations of assignments related to seminars
- written reports and oral presentations of project work.

The examiner can decide on adapted or alternative examination formats for students with disabilities.

Late submission of the project work has consequences for the final grade of the course. These consequences are described in detail in the grading criteria of the course.

The examination will be conducted in English.

b. A passing final grade requires participation in field trips, seminars, and exercises. If special reasons exist, following consultation with the teacher involved, the examiner may grant the student exemption from the obligation to participate in certain compulsory instruction.

c. Grading: The course's final grade will be set according to a seven-point criterion-referenced scale:

A = Excellent

B = Very good

C = Good

D = Satisfactory

E = Adequate

Fx = Fail, some additional work is required

F = Fail, much additional work is required

A passing final grade requires passing grades on all examinations.

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

e. Students who receive a failing grade on a regular examination are allowed to retake the examination as long as the course syllabus is still valid. The number of examination opportunities is not limited. 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 to the subsequent examination, unless there are special reasons to the contrary. Such requests should be made to the department board.

The course includes at least three examination opportunities per academic year the course is offered. For the academic years that the course is not offered, at least one examination opportunity is offered. For practical course elements such as excursions, seminars, exercises, oral presentations, and project work examination opportunities are only offered during the period of time when the course is given.

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

### **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 the course was discontinued. Requests must be made to the departmental board. The provision also applies in the case of revisions of the course syllabus and revisions of the required reading. After the settlement period no more examination is given.

### **Limitations**

This course may not be included in a degree together with the courses Landscape Ecology, Advanced Course (BI3850), Landscape Ecology I (BL7001) Landscape Ecology II (BL8003), Landscape Ecology - Theory and Design (GE7047, GE7081), or with equivalent courses.

### **Misc**

This course is part of the Master's Programme in Landscape Ecology, but may also be taken as a separate course.

This course includes field studies, which entails costs to the student.

The required reading is decided by the department board and published on the course page in the digital course catalogue at least two months before the course starts.