

# Education plan

for

**Master's Programme in Landscape Ecology**  
**Masterprogram i landskapsekologi**

**120.0 Higher Education  
Credits**  
**120.0 ECTS credits**

**Programme code:** NLEKO  
**Valid from:** Autumn 2019  
**Date of approval:** 2018-09-12  
**Department:** Department of Physical Geography

## Decision

This syllabus has been approved by the Board of the Faculty of Science at Stockholm University 2018-09-12.

## Prerequisites and special admittance requirements

To be eligible for this programme you must have knowledge corresponding to a Bachelor's degree in Earth sciences, Environmental sciences, Biology-earth sciences, Geography or Biology and that must include at least 15 ECTS credits Ecology. Also required is knowledge equivalent to Swedish upper secondary school course English B/English 6.

## Programme structure

The programme consists of a compulsory part of 45 higher education credits. The first year consists of an optional part of 15 higher education credits. The second year consists of a degree project (30, 45 or 60 higher education credits) and an optional part of 0-30 higher education credits.

## Goals

The main field of study: Physical Geography and Quaternary Geology with specialisation of Landscape Ecology

For a Degree of Master (Two Years) students must

- demonstrate knowledge and understanding in their main field of study, including both broad knowledge in the field and substantially deeper knowledge of certain parts of the field, together with deeper insight into current research and development work;
- demonstrate deeper methodological knowledge in their main field of study;
- demonstrate an ability to critically and systematically integrate knowledge and to analyse, assess and deal with complex phenomena, issues and situations, even when limited information is available;
- demonstrate an ability to critically, independently and creatively identify and formulate issues and to plan and, using appropriate methods, carry out advanced tasks within specified time limits, so as to contribute to the development of knowledge and to evaluate this work;
- demonstrate an ability to clearly present and discuss their conclusions and the knowledge and arguments behind them, in dialogue with different groups, orally and in writing, in national and international contexts;
- demonstrate the skill required to participate in research and development work or to work independently in other advanced contexts;
- demonstrate an ability to make assessments in their main field of study, taking into account relevant scientific, social and ethical aspects, and demonstrate an awareness of ethical aspects of research and development work;
- demonstrate insight into the potential and limitations of science, its role in society and people's

responsibility for how it is used;

- demonstrate an ability to identify their need of further knowledge and to take responsibility for developing their knowledge.

### **Courses**

Compulsory courses:

1. Landscape Ecology - Theory and Design, 15 credits
2. Applied Remote Sensing and GIS for Environmental Analysis, 15 credits
3. Applied Aerial Photographic Techniques for Landscape analysis, 7.5 credits
4. Project in Landscape Ecology, 7.5 credits
5. Degree project in Physical Geography and Quaternary Geology, 30, 45 or 60 higher education credits (GE9009, GE9010 eller GE9011)\*

Optional courses: 15-45 credits

\* The main field of study.

### **Degree**

Degree of Master

### **Misc**

Students who have been admitted to the programme but not completed it during the scheduled two years can request to complete the program even after the programme syllabus no longer applies. In such cases, the limitations stated in the course syllabus apply.

The degree project constitutes the individual thesis project within the master's programme. The extent of first level (bachelor level) courses allowed within the programme is limited to a maximum of 30 higher education credits. Regarding optional courses: limitations expressed in the course syllabi, determine if courses may be included in a master's degree.