

# Ecology

Programme course

6 credits

Ekologi

NBIB41

Valid from: 2017 Spring semester

**Determined by**

Board of Studies for Chemistry, Biology  
and Biotechnology

**Date determined**

2017-01-25

## Main field of study

Biology

## Course level

First cycle

## Advancement level

G1X

## Course offered for

- Biology, Bachelor´s Programme

## Entry requirements

Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

## Prerequisites

20 ECTS in Biology including a course in Botany or equivalent.

## Intended learning outcomes

To provide an understanding of basic ecological concepts and theories. The course also aims at an insight and exercise in the scientific method of working: to plan, carry out, evaluate and account for investigations that illustrate some current problems in ecology.

## Course content

The course provides knowledge about basic ecological concepts and theories. The relations of individual organisms to their environment. Evolutionary ecology. The structure and dynamics of populations and ecological communities. Conservation Biology. Turnover of energy and nutrients in ecosystems.

## Teaching and working methods

Lectures, seminars and computer simulations of ecological models. A small scientific investigation (team-work) is also carried out during the course. Seminars, computer simulations and field and laboratory experiments/work in connection with the scientific investigation (team-work) are compulsory.

## Examination

LAB2	Laboratory work	3 credits	U, G
TEN2	Written examination	3 credits	U, 3, 4, 5

## Grades

Four-grade scale, LiU, U, 3, 4, 5

## Other information

Supplementary courses: Ecology second course, Nature Conservation in Practise

## Department

Institutionen för fysik, kemi och biologi

## Director of Studies or equivalent

Agneta Johansson

## Examiner

Kjell Carlsson

## Course website and other links

<http://cms.ifm.liu.se/edu/biology/>

## Education components

Preliminary scheduled hours: 68 h

Recommended self-study hours: 92 h

## Course literature

Robert Ricklefs (Author), Rick Relyea (Author) 2014 Ecology: The Economy of Nature. 7th ed. Freeman

## Common rules

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at [http://stydokument.liu.se/Regelsamling/Innehall/Utbildning\\_pa\\_grund-\\_och\\_avancerad\\_niva](http://stydokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva).