



HÖGSKOLAN I GÄVLE

Biodiversity in Boreal Ecosystem 7.5 cr

Biodiversitet i boreala ekosystem 7,5 hp

Set by Faculty of Health and Occupational Studies

Version

Set at

Valid from

10/9/17

HT2017

Level	A1N
Education level	Second cycle
Course identifier	BIA006
Credits	7.5 cr
Main field of study	Biology
Subject group	Biology
Disciplinary domain	Natural sciences 100.0 %

Learning outcomes

On completion of the course the student will be able to:

1. demonstrate basic knowledge of plant and animal ecology in boreal forest
2. show understanding of the impact of climate, history and geology in forming boreal ecosystem
3. show understanding of human impact on the boreal ecosystem
4. propose measures in increase the biodiversity and resilience in the boreal ecosystem in relation to historical forestry
5. evaluate the possible effects of a changing climate on ecological interactions in the boreal forest ecosystems

Course content

Ecology of boreal forests
Biodiversity and organism's adaptation to nordic climate
Animal tracking
Outdoor experience through senses
Forestry today and in history
Effects of climate change
Economic importance of boreal Forests
Effects of different anthropogenic actions, including forestry, on biodiversity and ecological interactions in Forests

population regulation regulation of different plant and animal species in natural Forests, their ecological role in changing climate

Teaching

Lectures, seminars (in- and outdoor), Projects (out- indoors), and excursions.
Participation in seminars, projekts and exkursions is compulsory.

Prerequisites

Bachelor of Science degree in Biology, Horticulture, Agriculture or equivalent education and English 6.

Examination

Written and oral l examinations.
Active participation during seminars, projekts and exkursions.
Oral and written projects presentation

Grade

A, B, C, D, E, Fx, F

Other regulations

Criteria for final grade will be handed out at the beginning of the course by the course coordinator or the examiner. All parts of the cours vill be included in the final grade.
Examination include compulsory seminars, projekts, workshops studievisits, workshops and exkursions. The course is given in English.

Sustainable environment

The majority of the course content deals with sustainable development..

Module

0010	Excursions and field trips (learning outcomes 1-5)	1.5 cr	Grade: UV
0020	Seminars and exercises (learning outcomes 1-5)	4.5 cr	Grade: UV
0030	Project work (learning outcomes 1-5)	1.5 cr	Grade: UV