

Syllabus

BIO682.1 Applied Population Ecology, 15.0 credits

Tillämpad populationsekologi

The course is given as course independent of study programme

Syllabus discontinued 24 November 2008

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

25 October 2006

The version applies to students admitted from autumn 2007 to autumn 2009

The version is not a module version

Subjects

Biology

Education cycle

Second cycle

Modules

Title	Code	Credits
Single module	0101	15.0

Advanced study in the main field

Grading scale

Pass / Failed

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

English

Prior knowledge

BSc degree in Biology or Forest Science with 60 ECTS in Biology including 15 ECTS in Ecology, or the equivalent.

Objectives

After completing the course, the student should have an in-depth understanding of many of the applications of population ecology, especially with regard to sustainable use of harvested animal populations and conservation. In addition to being able to critically evaluate problems and published studies, students completing the course should be able to perform all steps in the application of population ecology to selected problems, including data collection, data analysis, use of the data in various models to understand and predict population development, and communicating conclusions to others.

Content

Important theoretical concepts of population ecology are covered, but most of the course is devoted to the many important applications of population ecology to solve real problems (with in-depth considerations of selected aspects). The course addresses the sustainable use of harvested animal populations and specific difficulties related to conserving endangered species by considering demographic and genetic problems posed by small and/or fragmented populations. Hence, the course covers the population genetics, structure, demography, dynamics and stability of both harvested and non-harvested populations, as well as certain relevant aspects of community and behavioural ecology.

Selected methods for obtaining information required for decision-making in conservation and management (e.g. field methods, assessments of demographic structure and population size, etc.) are also covered. Furthermore, students will use real data in various models to gain a deeper understanding of ways to predict risks of extinction and population changes under various conditions.

Implementation

Timetabled activities

Lectures ca. 80 hrs

Practical and Computer Laboratory exercises ca. 50 hrs

Examination ca. 10 hrs

Non-timetabled compulsory assignments and independent studies ca. 260 hrs

Total ca 400 hrs

Examination

Requirements for examination

Assessment is based on performance in the exercises, written examination, laboratory work and project work.

Successful completion of the course requires satisfactory appraisals in all of the assessed elements listed above.

- If the student fails a test, the examiner may give the student a supplementary assignment, provided this is possible and there is reason to do so.
- If the student has been granted special educational support because of a disability, the examiner has the right to offer the student an adapted test, or provide an alternative assessment.
- If changes are made to this course syllabus, or if the course is closed, SLU shall decide on transitional rules for examination of students admitted under this syllabus but who have not yet passed the course.
- For the examination of a degree project (independent project), the examiner may also allow the student to add supplemental information after the deadline. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

Additional information

- The right to take part in teaching and/or supervision only applies to the course date to which the student has been admitted and registered on.
- If there are special reasons, the student may take part in course components that require compulsory attendance at a later date. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

Responsible department

Department of Wildlife, Fish, and Environmental Studies

Supplementary Information

Finalized by: Programkommitté skog och mark

Biology Area: Ecology

Replacement course: BI4215