



Faculty of Science

BIOF10, Biology: Field Faunistics, 7.5 credits

Biologi: Fältfaunistik, 7,5 högskolepoäng

First Cycle / Grundnivå

Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2021-06-08 to be valid from 2021-06-08, spring semester 2022.

General Information

The course is an optional first-cycle course for a degree of Bachelor in Biology.

Language of instruction: Swedish

Main field of studies

Biology

Depth of study relative to the degree requirements

G1F, First cycle, has less than 60 credits in first-cycle course/s as entry requirements

Learning outcomes

The general aim of the course is that the student should have acquired a basic understanding of how knowledge of species and their identification and distribution is used in nature conservation, biodiversity monitoring, research and teaching. Likewise, the student should have knowledge of why this type of monitoring is important and how it is carried out on a carefully and ethical justifiable way. The student should also be able to apply the acquired proficiencies e.g. in biodiversity monitoring or in an academic study, and document the results.

Knowledge and understanding

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

- account for how one by means of identification keys identify Swedish insects and spiders to family level and selected groups to species level
- in the field and by heart identify Swedish anurans and reptiles, the most common birds and mammals, and a selection of invertebrate animals that are representative of the region and season

- give an account of practical applications of faunistics in nature conservation, biodiversity monitoring, research or teaching

Competence and skills

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

- by means of identification keys decide all in Sweden occurring insects and spiders to family level and selected groups to species level
- apply basic collection and monitoring methods for invertebrate animals and compile survey results as a report
- in a scientifically correct way be able to collect in, prepare and label different types of insects

Judgement and approach

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

- conduct relevant arguments about ethical and conservation aspects of collection and inventory of invertebrate animals
- make relevant ethical assessments during practical faunistic work e.g. in biodiversity monitoring and academic studies, including when collection is ethically justifiable

Course content

The course contains:

- Identification of the in Sweden most commonly occurring the birds, the mammals and the anurans and reptiles, and and of a seasonally and regionally representative selection of invertebrate animals
- Practical training in species monitoring by means of microscopes and in the field, as well as practical training in monitoring methodology when working with invertebrate animals
- Training in the use of identification keys
- Full day field trips to some of Skåne's most biodiverse sites
- Concluding multiday overnight field excursion where proficiencies learned during the course are applied in a project work
- Application of basic faunistic work e.g. in biodiversity monitoring, nature conservation and academic studies with a focus on invertebrate animals
- Report writing and oral presentation

Course design

The teaching consists of lectures, laboratory sessions, field exercises, group work and project work. Participation in laboratory sessions, field exercises, group work and project work and associated component are compulsory.

Assessment

The assessment is based on the written performance of students in exams during the course and through participation in compulsory components The course includes two

modules with each two assessing components:

Module Species determination (5 credits):

- Species identification by means of microscope is assessed through a written examination where the student uses identification literature keys to identify a selection of invertebrate animals to family level. The grades are Fail (U), Pass (G), and Pass with distinction (VG).
- Field-based species identification is assessed through a written examination in species knowledge where the student should be able to name a representative selection of vertebrate and invertebrate animals by heart from pictures and/or preparations. The grades are Fail, Pass and Pass with distinction.

Module Project and placement (2.5 credits):

The ability to prepare insects in a scientifically correct way is assessed through practical exercises where the student should apply the most commonly occurring preparation techniques (including labelling) using her/his own material collected in the field. The grades are Failed and Passed.

- Practical application of faunistics is assessed through an independent project work that includes monitoring methodology and species identification. This is carried out and is presented during the final field trip. The grades are Fail, Pass and Pass with distinction.

For students who have not passed the regular examination, an additional examination in close connection to this is offered.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, Pass, Pass with distinction.

To pass in the whole course is required passed written examination assignments and passed compulsory components.

This implies that the student should be able to pass:

- by means of identification keys identify the majority of in Swedish invertebrate animals to family level
- by heart identify the majority of the anurans, reptiles, mammals, birds and invertebrate animals that are specified as mandatory in the course documents
- carry out a basic monitoring or academic study with a focus on inventory and species determination of invertebrate animals and present the results in a correct way
- prepare and label collected material in a scientifically correct way

To pass with distinction, the student should furthermore be able to:

- by means of identification keys identify most in Swedish invertebrate animals to family level
- by heart identify most of the anurans, reptiles, mammals, birds and invertebrate animal that are specified that are specified as mandatory in the course documents

The final grade is determined by a weighing of the results of the parts that are included in the examination.

Entry requirements

For admission to the course, knowledge corresponding to at least 3 credits in faunistics is required.

Further information

The course may not be included in a degree together with BIOF04 Field Faunistics 7.5 credits.

Subcourses in BIOF10, Biology: Field Faunistics

Applies from V22

- 2201 Species identification, 5,0 hp
Grading scale: Fail, Pass, Pass with distinction
- 2202 Project and practicals, 2,5 hp
Grading scale: Fail, Pass, Pass with distinction