

SLUkurs

Ethology and Animal Welfare - Bachelor's Programme

Version 1. Is valid between autumn 2005 and spring 2012

Programme code:

VK002

Scope:

180 ECTS

Level affiliation:

1 - First cycle

Degree

Degree of Bachelor of Science

Responsible faculty:

Faculty of Veterinary Medicine and Animal Science

Appendices

1. Decision

On 8 September 2004, the Board of the Swedish University of Agricultural Sciences (SLU) established the Bachelor's Programme in Ethology and Animal Welfare. The program syllabus was approved on 10 June 2005 by the Faculty Board at the Faculty of Veterinary Medicine and Animal Science, effective from the academic year 2005/06. Since then, minor changes were made to the syllabus on 31 August 2006, 5 June 2007, 22 June 2009 and 7 June 2010. The latest amendment is effective from the academic year 2010/11.

Ethology and Animal Welfare - Bachelor's programme at the basic level comprises 180 credits. The programme has the following programme code: VK002.

2. Prior knowledge and other requirements

In order to be admitted to the Ethology and Animal Welfare - Bachelor's programme there are, in addition to general requirements, specific entry requirements as follows:

- Mathematics D
- Physics A
- Chemistry B
- Biology B

corresponding to area of competence No 11

Grade requirements: in each of these courses, the grade Pass is the minimum grade required.

The admission requirements as described above can also be met by those who have obtained the equivalent knowledge from current or former Swedish education. The requirements are also fulfilled if the equivalent knowledge has been obtained by other means.

For admission to the various courses included in the programme, specific entry requirements defined for each individual course must be fulfilled.

3. Intended learning outcomes

3.1 General learning outcomes

In accordance with the Higher Education Act (Chapter 1, § 8), the first cycle education aims to develop the student's

- ability to make independent and critical assessments,
- ability to independently identify, formulate and solve problems, and
- readiness to respond to changes in working life.

Within the field of study, the students shall, in addition to knowledge and skills, develop the ability to

- seek and evaluate knowledge on a scientific level,
- follow the development of knowledge, and
- exchange knowledge with "people without specialist knowledge in the field. "

3.2 Specific learning outcomes for the Bachelor's degree

In accordance with the supplement to the Ordinance of the University of Agricultural Sciences, the student must meet the following objectives for the Bachelor's degree:

Knowledge and understanding

For a Bachelor's degree students must

- demonstrate knowledge and understanding in their main field of study, including knowledge of the scientific basis, knowledge of applicable methods in the field, in-depth knowledge of some part of the field and awareness of current research issues.

Competence and skills

For a Bachelor's degree, the student must

- demonstrate the ability to search, collect, evaluate and critically interpret the relevant information in a problem and critically discuss events, issues and situations

- demonstrate an ability to make assessments of human and animal relations and how these can interact with the outside world in the short and long term
- demonstrate an ability to identify, formulate and solve problems and implement tasks within specified time limits;
- demonstrate an ability to give oral and written presentations and discuss information, problems and solutions in dialogue with different audiences, and
- demonstrate the skills required to work independently in the field of study.

Judgement and approach

For a Bachelor's degree students must

- demonstrate skills in the main field of study for Ethology and Animal Welfare taking into account relevant scientific, social and ethical aspects;
- demonstrate an ability to make assessments of human and animal relations and how these can interact with the outside world in the short and long term
- demonstrate understanding of the role of knowledge in society and on human responsibility for the knowledge used, and
- demonstrate an ability to identify the need for further knowledge and to develop their skills.

3.3 Detailed learning outcomes for the Ethology and Animal Welfare - Bachelor's programme

Under the requirements of the exam description, SLU has stated the following outcomes for the Bachelor's degree in biology:

Knowledge and understanding

For a bachelor's degree in biology, students shall

- demonstrate knowledge and understanding of Ethology and Animal Welfare, including knowledge of the scientific foundation and knowledge of applicable methods in the field and orientation of current research issues,
- demonstrate understanding of biochemistry, microbiology and statistics needed in order to study biology at advanced level,
- demonstrate understanding and be able to explain reasons and applications in animal structure and function, ethology, animal welfare, animal feeding, husbandry and genetics,
- demonstrate understanding and be able to explain how evolutionary biology is the basis for animal behavior and needs, and
- demonstrate understanding and be able to explain the role of animals in society, their sensitivity to different environments, management and interaction with people.

Competence and skills

For a Bachelor's degree in biology, students must

- demonstrate the ability to search, collect, evaluate and critically interpret information in the problem situations relevant in ethology and animal welfare, and to critically discuss these,
- demonstrate an ability to perform basic statistical compilations and analyses of biological data,
- demonstrate an ability to identify, formulate and solve problems and implement tasks within specified time frames as well as the ability to give oral and written presentations and discuss information, problems and solutions in dialogue with different audiences,
- demonstrate the skills required to work in the field of ethology and animal welfare and be able to continue studies at an advanced level, with a high degree of autonomy,
- demonstrate the ability to search and compile scientific literature in ethology and animal welfare,
- master the technical language used in ethology and animal welfare field, write in a scientific and popular way in Swedish and be able to assimilate the contents of the scientific literature in English.
- describe the different farming systems and assess them from an ethological and animal protection – promotion perspective, and
- make judgements which aim to find the best possible solutions for the keeping of animals and/or human interaction with animals.

Judgement and approach

For a Bachelor's degree in biology, students must

- demonstrate the ability to assess the relevance of ethology and djurskyddsområdet, taking into account scientific, social and ethical aspects;
- demonstrate the ability to make assessments of human and animal relations and how these can interact with the outside world in the short and long term,
- demonstrate understanding of the role of knowledge in society and on human responsibility for how our knowledge is used, and
- demonstrate an ability to identify the need for further knowledge and to develop their skills.

4. Possibilities for further study

Students who have completed the Ethology and Animal Welfare - Bachelors's programme with a Bachelor's degree meet the specific entry requirements for admission to further studies on the following types of education at SLU:

- Second cycle

The higher education degree programmes that are open for admission are listed in

Appendix 1 established by the Board of education at first and second cycle (GUN) at the Faculty of Veterinary Medicine and Animal Science.

5. Content and outline

5.1 Courses

The courses included in the Ethology and Animal Welfare - Bachelor's program set by the Board of Education at the basic and advanced levels at the Faculty of Veterinary Medicine and Animal Science are presented in Supplement 2 to the programme syllabus. The learning outcomes and content are stated in the syllabus for each course.

5.2 Outline

The programme begins with the following integrated subjects: ethology, animal welfare, animal welfare and ethics, and evolutionary biology. It also introduces students to the profession in these areas and to the teaching methodology used in the programme. The introduction also provides a basic understanding of university studies and the scientific approach. Topics such as microbiology, biochemistry, animal structure, physiology and nutrition, and statistics provide a basis to better understanding of the more applied areas of education. Areas that provide an overall picture of the relationship between humans and animals are given in the following courses: animal health, animal husbandry, animal environment and human - animal interaction. The entire educational situation is guided by the integration of various disciplines to provide an increased opportunity for a holistic approach and to understand connections between different subjects. The program allows for a certain adoption of a profile during the third year.

The teaching is organized as problem-based learning (PBL) with modules of pre-proficiency-based training phases. PBL is characterized by real situations, self-directed learning and group work. In the skill-based modules the students practise communication (written and oral), analysis, evaluation and social interaction in a scientific context.

The programme provides practical skills through workplace-based modules in zoos or in other practical husbandry. Students are also given opportunities to look at entrepreneurship and running one's own business.

Independent project

First level education concludes with an independent project (the Bachelor's thesis) in which the students can apply their knowledge, skills and attitudes to a recent

topic within the field of the programme.

6. Examination

Each course includes one or several tests. Students are graded on a four-point scale (5-4-3-U) (The Vice-Chancellor's resolution, December 17, 2007 No. SLU ua 30-4022/07.) The grade pass (G) signifies that the student has obtained a passing grade in all of the tests included in the course and has fulfilled the participation requirements in all the compulsory course modules.

Grades are determined by an examiner appointed by SLU. Grades cannot be appealed. There are further directions regarding the right to take a test again in the SLU rulebook.

7. Degree

7.1 Degree

A Bachelor's degree with biology as their main field of study in Ethology and Animal Welfare - Bachelor's program is obtained after completion of course requirements (passed courses) of 180 credits according to the following:

- At least 60 credits in the field of biology (basic AB)
- At least 15 credits courses with specialization in biology (basic C)
- At least 15 credits of independent work (job candidate / C-level) in the field of biology
- A maximum of 30 credits may consist of passed courses at advanced level.

Course requirements must also comply with the following demands:

- at least 130 credits programme courses in accordance with Supplement 2
- independent project (degree) in biology, specializing in ethology and animal welfare rules set out in Supplement 2

Students who meet the requirements for a bachelor's degree, will receive a diploma, at request, with the Degree of Bachelor with a Major in Biology.

The degree certificate will state that the requirements have been fulfilled according to the programme syllabus for Ethology and Animal Welfare - Bachelor's programme. Precise course requirements are set out in Supplement 2, as set by the Board of Education at the basic and advanced levels at the Faculty of Veterinary Medicine and Animal Science.

7.2 Other degrees that the student can obtain after finalizing the study programme

The courses included in Ethology and Animal Welfare - Bachelor's programme also allow for the following graduation provided that SLU's requirements for general qualifications are met:

- Bachelor´s degree in the main field biology (not included in any study programme).

8. Miscellaneous

8.1 Credit transfer

Approved courses from other higher education institutions, in Sweden or abroad, may be credited for in the Ethology and Animal Welfare - Bachelor´s programme. This does not apply if there is a substantial difference between the courses. Credit transfer requests are considered on an individual basis. Equivalent knowledge and skills acquired in an occupation may be also credited for upon assessment.

8.2 Provisional regulations

Students admitted to the Ethology and Animal Welfare - Bachelor´s programme before 1 July 2007 can obtain a bachelor´s degree in this education if the requirements according to item 7. Degree, are fulfilled.