

# Syllabus

for course at advanced level

**Insects: Inventory and Identification**

**Insekter: inventering och bestämning**

**5.0 Higher Education**

**Credits**

**5.0 ECTS credits**

<b>Course code:</b>	BL7036
<b>Valid from:</b>	Autumn 2012
<b>Date of approval:</b>	2012-01-17
<b>Department</b>	Department of Biology Education
<b>Main field:</b>	Biology
<b>Specialisation:</b>	A1N - Second cycle, has only first-cycle course/s as entry requirements

## Decision

This syllabus has been approved by the Board of the Faculty of Science at Stockholm University.

## Prerequisites and special admittance requirements

Admittance to the course requires knowledge equivalent to a Bachelor's degree in Biology Swedish upper secondary school course English B or equivalent or one of the following tests. Cambridge CPE och CAE: Pass. IELTS : 6.0 (with no part of the test below 5.0). TOEFL (paper based): 550 (with minimum grade 4 on the written test part). TOEFL (computer based): 213. TOEFL (internet based): 79. and additionally 30 credits advanced courses in Biology.

## Course structure

Examination code	Name	Higher Education Credits
7036	Insects: Inventory and Identification	5

## Course content

The course covers:

- insect diversity, phylogeny and evolution.
- comparative insect morphology and terminology.
- molecular methods used in the exploration of insect communities.
- construction and use of keys for species determination.
- methods for collection of objects, preparation and species inventory.
- project planning.

## Learning outcomes

It is expected that the student after taking the course will:

- be able to describe insect diversity, evolution and phylogeny,
- understand the anatomy and functioning of insects, and to master morphological terminology
- be familiar with the use of molecular methods for the exploration of insect communities
- be familiar with the orders of the insects, and major families of insects in Scandinavia
- be able to construct and use keys for determination of insects
- be familiar with common methods for collection and preparation of insects,

- be able to plan large entomological projects.

### **Education**

The education consists of lectures, group work, laboratory exercises and field studies. Participation in group work, laboratory exercises and field studies as well as group education associated with this is compulsory. An examiner may rule that a student is not obliged to participate in certain compulsory education if there are special grounds for this after consultation with the relevant teacher.

### **Forms of examination**

a. Examination for the course is in the following manner: measurement of knowledge takes place through: written examination. If the instruction is in English, the examination may also be conducted in English.

b. Grading is carried out according to a 7-point scale related to learning objectives:

A = Excellent

B = Very Good

C = Good

D = Satisfactory

E = Sufficient

Fx = Fail

F = Fail

c. Grading criteria for the course will be distributed at the start of the course.

d. A minimum grade of E is required to pass the course, together with:

- approved submitted work
- participation in all compulsory education
- oral presentations

e. Students who fail an ordinary examination are entitled to sit additional examinations as long as the course is offered. There is no restriction on the number of examinations. Examinations also include other obligatory elements of the course. Students who have passed an examination may not resit it in order to achieve a higher grade. Students who have failed on two occasions are entitled to request the appointment of a different examiner for the next examination. Any such request must be made to the departmental board.

The course has at least two examinations (if required: for each element) for each academic year in the years in which instruction is provided. Intervening years include at least one examination.

f. Students awarded the grade Fx are given the opportunity to improve their grade to E. The examiner decides the supplementary assignments to be performed and the pass mark criteria. The supplementary assignments will take place before the next examination session.

### **Interim**

Students may request that the examination is carried out in accordance with this syllabus even after it has ceased to apply. This right is limited, however, to a maximum of three occasions during a two-year-period after the end of giving the course. A request for such examination must be sent to the departmental board.

### **Misc**

The course includes compulsory elements in field, which may entail additional cost for the student. The course is a component of the Nordic Master's Programme in Biodiversity and Systematics, and it can also be taken as an individual course.

### **Required reading**

Course literature is decided by the departmental board and is described in an appendix to the syllabus.