

# Education plan

for

**Bachelor's Programme in Biology**  
**Kandidatprogram i biologi**

**180.0 Higher Education**  
**Credits**  
**180.0 ECTS credits**

<b>Programme code:</b>	NBIOK
<b>Valid from:</b>	Spring 2011
<b>Date of approval:</b>	2006-10-18
<b>Changed:</b>	2010-11-15
<b>Department:</b>	Department of Biology Education

## Decision

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

## Prerequisites and special admittance requirements

Swedish upper secondary school courses Mathematics D, Physics B, Chemistry B and Biology B, or equivalent.

## Programme structure

The first two years of the programme consist of compulsory courses 120 HEC, thereafter at least 15 HEC of elective advanced courses in the main field of study, optional courses of up to 30 HEC and a degree thesis, alternatively, degree project of at least 15 HEC.

## Goals

The main field of study is biology. It is expected that the student after completed the program will be able to:

- demonstrate knowledge and understanding in their main field of study, including knowledge of the scientific basis of the field, knowledge of applicable methods in the field, in-depth knowledge of some part of the field and a general sense of current research issues;
- demonstrate an ability to seek, gather and critically interpret information that is relevant to a problem and to critically discuss phenomena, issues and situations;
- demonstrate an ability to independently identify, formulate and solve problems and to perform tasks within specified time limits;
- demonstrate an ability to present and discuss information, problems and solutions in dialogue with different groups, orally and in writing;
- demonstrate the skills required to work independently in the field that the education concerns;
- demonstrate an ability to make assessments in their main field of study, taking into account relevant scientific, social and ethical aspects;
- demonstrate insight into the role of knowledge in society and into people's responsibility for how knowledge is used;
- demonstrate an ability to identify their need of further knowledge and to upgrade their capabilities.

## Courses

Year 1, Compulsory courses:

General Chemistry FC, 15 HEC (KY2001), Fundamentals in Organic Chemistry FC, 7.5 HEC (KO3002), Biochemistry FC, 7.5 HEC (KB3001), Microbiology FC, 6 HEC (BL3003)\*, Biological Statistics FC, 3 HEC

(BL3006)\*, Molecular Cell Biology FC, 15 HEC (BL3001)\*, Genetics I FC, 7,5 HEC (BL3003)\*, Our Place in the Universe FC, 3 HEC (BL1001) optional.

Year 2, Compulsory courses: Diversity and Phylogeny of Organisms FC, 20 HEC (BL2003)\*, Floristics and Faunistics FC, 10 HEC (BL2001)\*, Physiology FC, 15 HEC (BL3005)\*, Ecology FC, 15 HEC (BL2007)\*.

Year 3, elective courses: degree thesis/degree project of at least 15 HEC (BL6003/BL6001)\*. Courses of at least 15 HEC from a list of elective courses The elective courses are decided by the department board. The list of all elective courses should be updated before each new academic year. Before the start of a programme, there should be a list of the minimum number of courses where teaching is guaranteed during the programme.

Optional courses of up to 30 HEC. \*The course is part of the main field of study.

## **Degree**

Bachelor's degree.

## **Misc**

Students who have been admitted to the programme but not completed it during the scheduled two/three years can request to complete the program even after the programme syllabus no longer applies. In such cases, the limitations stated in the course syllabus apply. The courses Diversity and Phylogeny of Organisms 20 HEC and Physiology 15 HEC can be replaced by courses without experimental animals.

The following departments are involved in the programme: Department of Physical, Inorganic and Structural Chemistry, Department of Organic Chemistry and Department of Biochemistry and Biophysics.