Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

Syllabus

BI0981.1 Functional Genomics, Theory, 7.5 credits

Funktionsgenomik, teori

The course is given as course independent of study programme

Syllabus discontinued 16 March 2011

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

2 June 2008

The version applies to students admitted from spring 2008 to spring 2010

The version is not a module version

Subjects

Biology

Education cycle

Second cycle

Modules

Title	Code	Credits
Single module	0101	7.5

Advanced study in the main field

Second cycle, has only first-cycle course/s as entry requirements (A1N)

Grading scale

5:Pass with Distinction, 4:Pass with Credit, 3:Pass, U:Fail
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

Knowledge equivalent to English B from upper secondary school is required as from the academic year 2009/10.
BSc degree in Biology with 90 credits in Biology including 15 credits Plant molecular biology, or the equivalent.

Objectives

After the course the student will have
- a strong theoretical basis in techniques for functional genomics, and
- knowledge about a large scale analysis of the functions of various gene products in an organism.
- insight in the new information that will be generated by whole-genome/metabolome analyses.

Content

The course deals with the concepts genomics, proteomics and metabolomics. Also robotising, miniaturisation and high-throughput-screening will be treated, and solutions for visualizing high-density data will be demonstrated.

Implementation

Timetabled activities:
Lectures ca. 30 hrs
Lessons and group discussions (compulsory) ca. 30 hrs
Demonstrations (compulsory) ca. 10 hrs
Self-directed studies ca. 130 hrs
Total ca. 200 hrs

Examination

Requirements for examination

Written examination.

Approved examination and active participation in group discussions and demonstrations.

- 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 course is given by UPSC (Umeå Plant Science Centre), i.e. the Department of Forest genetics and Plant Physiology at SLU, and the Department of Plant Physiology at Umeå University.

- 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 Forest Genetics and Plant Physiology

Supplementary Information

Finalized by: Programkommitté skog och mark
Biology Area: Molecular Biology
Replacement course: Bi4260