

Syllabus

BI4060.1 Cell Biology, 7.5 credits

Cellbiologi

The course is given as course independent of study programme

Syllabus discontinued 27 May 2002

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

17 March 1997

The version applies to students admitted from spring 1999 to spring 2001

The version is not a module version

Subjects

Biology/Soil science

Education cycle

First cycle

Modules

Title	Code	Credits
Single module	0101	7.5

Advanced study in the main field

Grading scale

Pass / Failed

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

Swedish

Prior knowledge

The equivalent of: 20 Swedish University Credits (SUC) of basic (A-level) courses in biology, 10 SUC in soil science and 5 SUC in biochemistry.

Objectives

By means of theory and extensive laborative experiments to gradually achieve knowledge of the complicated machinery of the cell and how these cells are created and interact to constitute a complete organism. We will also study the ability of fungi and bacteria to attack plants and how the cells defend themselves against these attacks.

Content

- Cell structure and function – differences between procaryote and eucaryote cells.
- Structure and functions of cell walls, cell membranes and cell organelles.
- Cell reproduction.
- Mitosis, cell cycle, meiosis, basic genetic concepts.
- Basic molecular biology.
- Communication between cells and cell differentiation.
- Cell signals, hormones, receptors, signal transduction.

Implementation

Lectures ca 25 h

Laboratory experiments ca 125 h (compulsory)

Examination

Requirements for examination

Examination and laboratory reports.

Approved examination and laboratory reports. Compulsory participation in laboratory experiments.

- 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 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: Programnämnden för skogsvetarprogrammet

Biology Area: Other Biology Courses