Details of approval

The syllabus was approved by on 2007-04-12 and was last revised on 2015-01-19 by Study programmes board, Faculty of Science. The revised syllabus applies from 2015-01-19, spring semester 2015.

General Information

The course is a compulsory first-cycle course for a Degree of Bachelor of Science in Biology.

Language of instruction: Swedish

Main field of studies

<table>
<thead>
<tr>
<th>Main field of studies</th>
<th>Depth of study relative to the degree requirements</th>
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<tr>
<td>Biology</td>
<td>G1F, First cycle, has less than 60 credits in first-cycle course/s as entry requirements</td>
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Learning outcomes

Knowledge and understanding

On completion of the course the student shall be able to:

- account for the biological diversity and systematics of algae, fungi, and green plants, with emphasis on phylogenetic relationships, adaptations, and economically important groups of plants
- explain the structure and life processes of higher plants
- describe how the structure of plants and life processes are influenced by abiotic and biotic factors
- present an advanced knowledge within a subject area of plant biology
Competence and skills
On completion of the course the student shall be able to:

- carry out experimental studies on plants
- present acquired knowledge, partly orally and partly in the form of a scientific poster
- carry out information and literature search in biological databases

Judgement and approach
On completion of the course the student shall be able to:

- evaluate acquired information and knowledge

Course content
The course includes the following topics: Overview of algae, fungi and plants. Phylogeny based on structural and molecular data. The biological variation and adaptations in plants, life forms and symbiosis elucidated from an evolutionary and phylogenetic perspective. Life cycles and reproductive biology. Species concepts and evolutionary processes in plants. Economically important plants (including cultivated plants). The structure and function of higher plants. Regulation of growth and development. Photosynthesis and metabolism. Uptake and transport of water and nutrients. The interplay between the plant and the environment. Biotechnological methods and applications.

Course design
The teaching consists of lectures, laboratory sessions, group work and projects with poster making. Participation in laboratory sessions, group work, projects, poster presentations, and thereby other integrated teaching, is compulsory.

Assessment
Examination takes place through a written examination at the end of the course and through compulsory parts. For students who have not passed the regular examination, an additional examination in close connection to this is offered.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

This is a translation of the course syllabus approved in Swedish
Marking scale: Fail, Pass, Pass with distinction.

To pass the entire course, approved examination and approved compulsory parts are required.

The final grade is decided through a weighing of the results of the parts that are included in the examination.

**Entry requirements**

For admission to the course, knowledge corresponding to MOBA01 Cell Biology 15 credits, and BIOA01 Genetics and Microbiology 15 credits, is required.

**Further information**

The course may not be included in a degree together with BIOS75 Botany 10 p (15 credits), BIO501 Organism Biology 1 10 p (15 credits), or BIO503 Botany 8 p (12 credits).
Subcourses in BIOB01, Biology: Botany

Applies from V13

0702  Physiology and Systematics, 8,0 hp
      Grading scale: Fail, Pass, Pass with distinction
0703  Laboratory Work and Group Assignments, 4,0 hp
      Grading scale: Fail, Pass, Pass with distinction

Applies from H07

0701  Botany, 12,0 hp
      Grading scale: Fail, Pass, Pass with distinction