

Syllabus

for course at first level

Plant Physiology
Växtfysiologi

15.0 Higher Education
Credits
15.0 ECTS credits

Course code:	BL5016
Valid from:	Autumn 2007
Date of approval:	2006-09-27
Department	Department of Biology Education
Subject	Biology
Specialisation:	G1F - First cycle, has less than 60 credits in 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 Cell and Molecular Biology 30 credits Physiology 15 credits. (Three credits corresponds to approximately two weeks full-time studies).

Course structure

Examination code	Name	Higher Education Credits
5A16	Theory	7.5
5B16	Project	4.5
5C16	Applied Plant Physiology	3

Course content

a). The course covers fundamental processes of plant function including how plants and other photosynthetic organisms interact with each other and their surrounding environment, and responses to environmental disturbances induced by human impacts. While the focus point is the molecular biology of the plant cell, the course also covers; Biotechnology with functional genomics and proteomics; genetically modified plants GMP; utilisation of bio-active compounds; Phytoremediation and Plant responses and feedbacks during Global Change.

b)The course includes the following elements 1) Theory 7.5 hp 2) research Project 4.5 hp. 3) Applied Plant Physiology 3 hp

Learning outcomes

It is expected that the student after taking the course will be able to comprehend the critical role that plants take in the biosphere, as well as independently plan, implement and report research experiments with physiological and molecular working methods. This will be achieved by an in depth understanding of modern plant physiology and cell biology applied to a wide range of photosynthetic organisms, including plant biotechnology and its practical applications

Education

The education consists of lectures, group education, laboratory project work, demonstrations, seminars and study visits

Participation in group education, seminars, project work, demonstrations and 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 and/or oral examination as well as written and oral presentations.

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 laboratory project work
- participation in all compulsory education

e. Students who fail to achieve a pass grade in an ordinary examination have the right to take at least further four examinations, as long as the course is given. The term “examination” here is used to denote also other compulsory elements of the course. Students who have achieved a pass grade on an examination may not retake this examination in order to attempt to achieve a higher grade. Students who have failed to reach a pass grade on two occasions have the right to request that a different teacher be appointed to set the grade of the course. A request for such appointment must be sent to the departmental board.

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.

Limitations

The course can not be included in a degree together with the course Plant Physiology with Molecular, Ecological and Biotechnological Aspects 10 p (BI3980) or the equivalent.

Misc

The course is a component of the Bachelor's Programmes in Biology, 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.