



## Syllabus

### **BIO418.1 Plant biochemistry, 6.0 credits**

#### **Växtbiokemi**

Version 1 in Slukurs. Corresponds to version 1 in Ladok

#### **Syllabus approved**

11 November 1999

The version applies to students admitted from autumn 2000 to spring 2002

The version is not a module version

#### **Subjects**

Biology

#### **Education cycle**

First cycle

#### **Modules**

<b>Title</b>	<b>Code</b>	<b>Credits</b>
Single module	0101	6.0

#### **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) in Biology and 10 SUC in Chemistry.

## **Objectives**

To convey basic knowledge about the biochemistry of plants.

## **Content**

The structure of plant cells; structure and function of amino acids and proteins; basal enzyme kinetics; synthesis, structure and function of carbohydrates and polysaccharides; structure and function of storage and membrane lipids; structure and function of biological membranes; transport across biological membranes; cell-cell interactions and signal transduction; biosynthesis, structure and function of cell walls; beta-oxidation; cellular metabolism; photo-phosphorylation and carbon fixation; oxidative phosphorylation.

## **Implementation**

Lectures 24 h

Laboratory work 24 h (compulsory)

Seminars 16 h (compulsory)

## **Examination**

### **Requirements for examination**

Written or oral tests and written and oral presentation of laboratory work.

Passed tests, participation in compulsory course components and in course evaluation.

- 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**

Faculty of Landscape Planning, Horticulture and Agricultural Science

### **Supplementary Information**

*Finalized by:* Programnämnden för hortonomprogrammet

*Biology Area:* Other Biology Courses