



Syllabus

KE0030.1 Analytical Natural Products Chemistry, 7.5 credits

Analytisk naturproduktkemi

The course is given Agriculture Programme (admission before 1 July 2007) and Biotechnology Programme and as course independent of study programme

Syllabus discontinued 14 March 2022

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

2 April 2004

The version applies to students admitted from spring 2005

The version is not a module version

Subjects

Chemistry

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

Knowledge corresponding to "General and organic chemistry" (10 credit points) and "Biochemistry" (10 credit points).

Objectives

After completed course the student should have basic knowledge about:

- the most important natural products, their occurrence, properties, chemistry, and biosynthesis
- chemical and spectroscopic methods for structural studies of natural products
- chromatographic techniques for isolation and analysis of natural products
- methods of separation.

Content

The following natural products will be covered:

Carbohydrates, lipids, nucleic acids, amino acids, peptides, terpenes, steroids, and alkaloids. Also covered are analytical principles and techniques such as spectroscopy (NMR, mass spectrometry, UV, IR), chromatography (GC, HPLC, TLC), separation (precipitation, extraction, distillation).

Implementation

Lectures, approx. 50 hours

Laboratory exercises and group seminars, approx. 60 hours (compulsory)

Examination**Requirements for examination**

Written exams and reporting of compulsory exercises.

Passed written test and approved reports of compulsory exercises.

- 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.

Transitional regulations

- Exams: At least three retake sessions (renewed exams) must be offered within two years of the decision to cancel the course.
- Compulsory elements: At least one opportunity for a retake session must be offered within two years of the decision to cancel the course.

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 Molecular Sciences

Supplementary Information

Finalized by: Programnämnden för livsmedelsutbildningarna
Course overlap: KE0013