

Organic Chemistry, basic course

Programme course

3 credits

Organisk kemi, grundkurs

NKEA07

Valid from: 2017 Spring semester

Determined by

Board of Studies for Chemistry, Biology
and Biotechnology

Date determined

2017-01-25

Main field of study

Chemistry

Course level

First cycle

Advancement level

G1X

Course offered for

- Biology, Bachelor's Programme

Entry requirements

Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

Prerequisites

General Chemistry

Intended learning outcomes

The course provides fundamental knowledge in basic organic chemistry: After studies well learned the student will able to:

- apply the rules for nomenclature of organic compounds.
- describe different functional groups in organic chemistry.
- understand basic transformations and reaction mechanisms.
- use elementary organic laboratory techniques.

Course content

The course include nomenclature, structure and physical properties of most common substances representing different functional groups. Basic transformations and stereochemistry. Biomolecules. Laboration in organic chemistry.

Teaching and working methods

Theoretical aspects are daily presented in lectures. Problem solving is studied during lessons. In the laboratory the students are trained in elementary organic chemical laboratory techniques.

Examination

LAB1	Laboratory work	1 credits	U, G
TEN1	Written examination	2 credits	U, 3, 4, 5

The exam will check how the student has received the aim of the course. To pass the laboratory course practical performance and approved reports is required

Grades

Four-grade scale, LiU, U, 3, 4, 5

Other information

Supplementary courses: Organic chemistry 2, Biochemistry 1.

Department

Institutionen för fysik, kemi och biologi

Director of Studies or equivalent

Magdalena Svensson

Education components

Preliminary scheduled hours: 26 h

Recommended self-study hours: 54 h

Course literature

Kompendium och laborationsmaterial från institutionen. Zumdahl & Zumdahl: "Chemistry", 7:e upplagan kap.22. Ellervik, Kann, Sterner: Organisk kemi, 3:e upplagan

Common rules

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at http://stydokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.