

Organic Synthesis

Programme course

9 credits

Organisk syntes

NKED13

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

Second cycle

Advancement level

A1X

Course offered for

- Organic Synthesis and Medicinal Chemistry, Master'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

Organic Chemistry, Master

Intended learning outcomes

After completing the course, the student should be able to:

- solve organic chemical problems from chemical theories with help of mechanisms
- present organic synthetic reactions
- discuss experimental methods in organic synthesis
- perform organic chemical synthesis work
- apply modern analytical methods in organic synthesis
- do risk assessment
- write a scientific report
- use quotations and references in an appropriate manner
- have knowledge of requirements for reports and exams

Course content

The course consists of modern synthesis methods, NMR-spectroscopy and physical organic chemistry. The experimental part includes laboratory techniques and projects in organic synthesis.

Teaching and working methods

The theory part includes lectures. Lessons include problem solving. The experimental part consists of projects in organic chemistry.

Examination

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

Grades

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

Department

Institutionen för fysik, kemi och biologi

Director of Studies or equivalent

Magdalena Svensson

Examiner

Peter Konradsson

Education components

Preliminary scheduled hours: 58 h

Recommended self-study hours: 182 h

Course literature

Clayden, Greeves, Warren, and Wothers; Organic Chemistry. Laborationsmaterial från institutionen

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.