



F3A5110 Enzymatic Synthesis

6.0 credits

Enzymatisk syntes

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for F3A5110 valid from Spring 2009

Grading scale

Education cycle

Third cycle

Specific prerequisites

Biochemistry, Organic chemistry

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

Give good theoretical knowledge in the technical use of biocatalyst for production of fine chemicals.

Course contents

Basic enzymology, The enzyme classes with typical reaction mechanisms, Applications for organic synthesis, Organic solvents and design of new processes, Evoluton of new enzymes etc.

Course literature

Straathof, A. J. J.; Adlercreutz, P. (eds.) Applied Biocatalysis, 2nd ed. Harwood academic publisher 2000, ISBN 9058230244 and handouts.

Examination

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Other requirements for final grade

Written exam and reported literature task.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.