



BB2240 Introduction to Biotechnology 7.5 credits

Introduktion till bioteknologi

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

Establishment

Course syllabus for BB2240 valid from Autumn 2007

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Biotechnology

Specific prerequisites

Language of instruction

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

Intended learning outcomes

Biotechnology is a broad concept which includes work with many different applications and with different scientific foundations. The course is aimed for students with shifting backgrounds within bioscience (biochemistry, chemistry, microbiology, molecular biology, etc) but on a level which corresponds to a degree of Bachelor. The course's main goal is to provide the students with a broad picture of biotechnology with examples of application with foundations in different scientific fields. The students can extend their knowledge within an individually chosen area. The course aims to practice presentation techniques and critical review of scientific texts. An external exercise in searching through scientific publications is also included in this course. The students will receive knowledge that will serve as a foundation to continue their studies within the Biotechnology Master programme.

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

- Describe on which scientific basis different parts of biotechnology rests.
- Give examples of different biotechnological applications and uses and their scientific foundations
- Carry out a comprehensive literature search for a scientific issues/inquiries.
- From a scientific issue/inquiry, extract information from the literature and summarize it in a scientific report.
- Formulate a constructive critique for a scientific report.
- Orally present results from a study within a scientific area.

Course contents

The course is divided into two parts. The first part consists of lectures which create the common foundation for continuing studies. The lectures discuss the actual areas within biotechnology. The other part includes a project work where the students may choose an area of interest. The results of the study will be presented in written form and orally. This will be followed by a discussion lead by the other students.

Course literature

Selected scientific articles.

Examination

- PRO1 - Project, 6.0 credits, grading scale: P, F
- NÄR1 - Examination, 1.5 credits, grading scale: P, F

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.

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

Other requirements for final grade

Project assignment (PRO1, 6,0 credits, grading scale Pass/Fail) , participation in lectures and seminar (NAR, 1.5 credits, grading scale Pass/Fail).

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.