



BB1220 Project in Biotechnology 6.0 credits

Projekt i bioteknik

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 BB1220 valid from Spring 2020

Grading scale

A, B, C, D, E, FX, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

BB1170 The Engineer in Focus (examination INL2 only), BB1150 Biochemistry, BB1160 Eucaryotic Cell Biology, BB1030 Microbiology, BB1190 Gene Technology.

Language of instruction

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

Intended learning outcomes

After completion of the course the student shall have

Skills and abilities to:

- Plan and produce two biotechnological project in groups, according to agreed timeframes with the help of a suitable form of project management.
- Identify relevant information, critically assess it according to its biotechnological scientific grounds, and use the information to creatively solve biotechnological problems.

Values and approaches to:

- Combine different disciplines within the project and relate the solutions to a sustainable development and to the needs of society.
- Evaluate the processes during group work and the individual own work effort, the tools for project management, and the ability to stimulate self and group performance.
- Demonstrate a good ability to account for the knowledge, process, results and conclusions of the project work in a written report and oral presentation.

Course contents

The course aims to train abilities that are important for working in project form, as well as to provide a deeper understanding of project management and group dynamics. The course provides basic knowledge of the role and responsibility of biotechnology for sustainable development, including their economic, environmental and social aspects. The course also aims to provide a deep understanding of certain parts of biotechnology. The projects are interdisciplinary towards areas that are close to biotechnology. The course includes:

- Sustainable development and the role of biotechnology
- Introduction and application of project management
- A project in biotechnology with focus on sustainable development
- A project in biotechnology with focus on mathematics.
- Literature search and reference management
- Self-reflection based on group dynamics and processes
- Report writing
- Oral presentation

Examination

- PRO1 - Project 1, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- PRO2 - Project 2, 3.0 credits, grading scale: A, B, C, D, E, FX, 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.

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.