BB103X Degree Project in Biotechnology, First Cycle 15.0 credits

Examensarbete inom bioteknik, grundnivå

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 BB103X valid from Spring 2016

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

At least 120 credits completed in CBIOT program, of which the course BB1100 Biochemistry laboratory course/BB1105 Biochemistry laboratory course is included and passed, including the exam retake in January. This applies if the degree project within biotechnology, first cycle, is started during the spring semester in period 4 of the current academic year.

Language of instruction

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

Intended learning outcomes

1. Demonstrate knowledge of the chosen topic's scientific foundation and applicable methods, insight into current research and development, as well as in-depth knowledge in some part of the subject area

2. Critically search, collect and use relevant information, and identify the need for further knowledge

3. Formulate, assess and handle problems and critically discuss phenomena, issues and situations

4. Plan and with applicable methods carry out tasks within given time frames

5. Demonstrate the ability to plan and with adequate methods carry out specific assignments within given time frames

6. Demonstrate the ability to evaluate products, processes, systems, methods or technical solutions

7. Show the skills required to work independently, within some part of the field of technology

8. Present and discuss information, problems, and solutions orally or in writing

9. Demonstrate the ability to account for work, conclusions, and the underlying arguments with requirements of structure, citation, and referencing.

10. Demonstrate the ability to make assessments considering relevant scientific, engineering, and social aspects

11. Demonstrate the ability to make assessments and reflect upon, evaluate, and review own and others' results

12. Continuously plan and document a work procedure

13. Show knowledge of planning, structuring, implementing of a project, its impact and reflect on the work process.

14. Identify the ideas of commercialisation and the possibilities of funding to start a technology-based company.

Course contents

During the course the student works on a larger project within biotechnology. The work includes the planning, implementation, report of the whole progression and the final re-

sult according to a given curriculum. The project includes in-depth studies in a specific biotechnology field. As support for the project work elements that develop professional communication , entrepreneurship and reporting, are included.

The course also includes critical review of the own and others' work.

Course literature

Given during the course and includes articles, books, and other resources relevant to the project. This list is established during the course.

Examination

- XUPP - Examination Assignment, 15.0 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.

Other requirements for final grade

Passed written report and oral presentation (PR01; 15 credits), 80% attendance at scheduled lectures, seminars, and exercises.

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.