



FCB3081 Higher Seminar in DNA/RNA Science I 3.0 credits

Högre seminarium i DNA/RNA vetenskap I

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

Establishment

Course syllabus for FCB3081 valid from Spring 2020

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Eligible for studies at the third-cycle level.

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 should be able to

- show basic knowledge, both broad and specialized, in the overall subject area of biotechnology with emphasis on the scientific subject area of the course
- show basic ability to present, critically examine and discuss scientific papers in the subjects of biotechnology with emphasis on the scientific subject area of the course
- show basic insights of academic authorship and the international scientific publishing landscape with relevance to the scientific subject area of the course
- demonstrate basic ability identify, discuss and reflect on ethics and sustainability aspects in the research that is discussed within the framework of the subject area of the course

Course contents

The course comprises approximately 80 full-time study hours and takes the form of weekly science seminars. The seminars address current trends in research focusing on nucleic acids (DNA and RNA) where doctoral students' own results, plans and ideas, as well as of postdoctoral students and other researchers, are presented, critically reviewed, discussed and given feedback. The course literature follows current trends in large-scale DNA sequencing and adjacent fields such as genomics, transcriptomics and bioinformatics. The doctoral students present their own research and provide feedback on each other's presentations. The course is the first of four courses in the seminar series.

Examination

- DEL1 - Participation, 3.0 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.

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

Grading criteria are specified in the course memo.

Other requirements for final grade

Active participation at 80% of the seminar sessions, which includes presenting, preparing and actively participating in reviewing and discussing selected scientific work.

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.