



DEPARTMENT OF CHEMISTRY AND MOLECULAR BIOLOGY

BIO612 Molecular Biology: Bachelor's Degree Project, 15 credits

Molekylärbiologi: Examensarbete - kandidatexamen, 15 högskolepoäng

First Cycle

Confirmation

This course syllabus was confirmed by Department of Chemistry and Molecular Biology on 2012-10-22 and was last revised on 2022-05-24 to be valid from 2022-05-31, autumn semester of 2022.

Field of education: Science 100%

Department: Department of Chemistry and Molecular Biology

Position in the educational system

This is a degree project in Molecular Biology at ground level. The course can be included as part of a Bachelor's degree in Molecular Biology or Biology.

Main field of studies

Molecular Biology

Biology

Specialization

G2E, First cycle, has at least 60 credits in first-cycle course/s as entry requirements, contains degree project for BA/BSc

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Entry requirements

Approved basic courses in biology comprising 60 credits in the subject areas of cell biology, molecular genetics, evolution, botanical and zoological physiology, ecology and biodiversity and systematics, or equivalent.

English proficiency is required to the level of English 6/English Course B from Swedish Upper Secondary School, or be certified by an internationally recognized test, for example TOEFL, IELTS. In addition a completed depth course of 15 credits in a relevant area is also required.

Learning outcomes

The student will, with supervisor's help perform a project and at the same time, train the ability to apply the knowledge he/she gained during the studies.

After completing the course the students will be able to:

Knowledge and understanding

- demonstrate theoretical knowledge in the subject area of the chosen degree project.
- demonstrate knowledge in scientific methodology and relate this knowledge to the current degree project.

Competence and skills

- independently plan and carry out a theoretical or experimental study.
- carry out the task within given time frames.
- demonstrate the ability to present and discuss obtained results both in writing and orally.

Judgement and approach

- demonstrate the ability to search, evaluate and critically interpret relevant information for to the work.

Course content

The thesis aims to give the student contact with research in one of the fields of molecular biology. You should under supervision, perform an independent thesis work. The work can either be experimental or take the form of a critical literature review based on original works. The work should then be presented both orally and written. Within the course, students will apply their knowledge and skills in molecular biological problems.

The student is also expected to participate in seminars and group meetings.

It is the student's responsibility to search for a project at the Department of Chemistry and Molecular Biology, at another department that conducts research in the subject area or externally at a company or authority. In order to be registered on the course it is required that the project is approved by the examiner for the course.

Form of teaching

See above.

Language of instruction: Swedish and English

Assessment

The course is completed when the student has written a report and given an oral presentation of his/her research work, and demonstrated the knowledge and skills to an extent that an examiner assesses as approved after consultation with the supervisor. The student is entitled to the replacement of the examiner, if practically possible, after being tested twice by the same examination such a request shall be submitted to the institution and shall be in writing.

Grades

The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U).

Course evaluation

A written and/or oral evaluation is done at the end of the course.

Additional information

To be accepted on the course, the student must have found a supervisor and a project that can be approved by the instructor for the course.