BIMK30 Bachelor Degree Project in Biomedicine

15 higher education credits  First cycle

General Information

Main field
Biomedicine

Subject
Biomedical subject area of choice

Type of course and its location in the education system
The course is mandatory in the Bachelor of Medical Science in Biomedicine programme and is taught in term 6.

Language of instruction
English or Swedish.

Learning Outcomes

On completion of the course, students shall
- be able to plan a small biomedical project (formulate a problem, choose practical and/or statistical-theoretical methods and describe them in a project plan) in cooperation with a supervisor
- be aware of relevant ethical and/or safety problems associated with the implementation of the project
- be able to carry out a project (learn the method and document the results) in cooperation with a supervisor
- be able to process and compile results achieved
- be able to evaluate own results starting from an independently compiled literature review
- be able to write a short essay with a format similar to that of a scientific publication
- orally be able to present and discuss results obtained, with a starting point in the literature
- be able to assess and evaluate the importance and limitations of the results achieved, starting from the question, the method selected and the processing method
- be able to justify the academic and/or medical value of the research, and provide an account of its use to society.
Course

Contents

Within this course, a project related to biomedical research is to be carried out experimentally and theoretically under the guidance of a supervisor. The project must have a clear and defined question.

Subjects examined

A pass on the course requires:
- a project plan approved by the course director
- an oral presentation, awarded a pass by an examiner
- a report, written in English in the format of a scientific paper and awarded a pass by the examiner and course director.

Instruction and Examination

The work is carried out under supervision at a university, company or similar operation run by local or central government, which conducts qualified biomedical research. A detailed project plan (according to a template) is to be submitted jointly by the student and supervisor, and must be approved by the course director before the work begins. The work, including essay writing and preparation for the oral presentation, must comprise studies equivalent to 15 credits. The degree project does not just comprise laboratory work, but also includes preparation, literature study, result compilation, evaluation and report writing. The project plan must therefore also have an attached schedule, which must also be approved by the course director before the work begins. The supervisor will be appointed by the course director as responsible for the student's training during the work on the degree project. The supervisor's task is to ensure that the work carried out during the project complies with the project plan and schedule, i.e. that the work is moving towards its objectives, that sufficient time has been allocated for report writing and that the final report is clear in its format. During the course of the work, the student will participate in the seminars of the research team or operation.

Students are to report their work in writing, in the format of a scientific report, and later also present it orally at an essay seminar. Students will be examined individually by an appointed examiner who will read the report beforehand and attend the oral presentation and participate by asking questions and taking part in the discussion. Grades (pass or fail) are set directly afterwards in consultation with the supervisor. Completing and passing these stages achieves the learning outcomes of the course.

Two occasions for examination are provided each term. Further occasions are planned according to a special schedule, and will be during the final days of the study periods of the term.

Grades

The grades awarded are Pass or Fail.

Admission Requirements

Courses including at least 150 credits in the Bachelor of Medical Science in Biomedicine programme.
Literature
Relevant scientific papers and textbooks in the subject field.

Further Information
The course is taught to students accepted to the Bachelor’s programme in Biomedicine.