



UNIVERSITY
OF SKÖVDE

COURSE SYLLABUS

Master Degree Project in Bioscience A1E

30 credits

Course code: BV702A

Version number: 9

Valid from: 1 January 2024

Ratified by: Curriculum Committee for Bioscience

Date of ratification: 25 May 2023

1. General information about the course

The course is provided by the University of Skövde and is named Master Degree Project in Bioscience A1E (Examensarbete i bioteknik A1E). It comprises 30 credits and is a second-cycle course. The level of progression is A1E.

The course is a part of the main field of study in Bioscience. The disciplinary domain of the course is Natural Sciences.

2. Entry requirements

The prerequisite for this course is a Bachelor degree in Biology and/or Medicine (containing at least 180 Higher education credits). In addition there is a requirement of 20 Higher education credits in bioscience at advanced level (or equivalent).

A further requirement is proof of skills in English equivalent of studies at upper secondary level in Sweden, known as English course 6. This is normally demonstrated by means of an internationally recognized test, e.g. IELTS or TOEFL or the equivalent.

3. Course content

In this course the student will get the opportunity to collect practical experience in research in bioscience and adjacent areas. The course gives the student an opportunity to work individually and independently with a research project at the university, in the public sector or at a company in Sweden or abroad.

The course consists of five parts:

Written assignment, 3 credits

During this part, a first literature review is written and the scientific problem and hypothesis is formulated for the project. A preliminary time plan for the project should also be established. In addition, ethical aspects of the work should be discussed. At least obtained grade G on the written assignment is required for students to be able to be examined in other examination parts which are included in this course.

Laboratory assignment, 15 credits

During this part, the hypotheses are tested.

Essay, 9 credits

The report should be written in English. The report can under certain circumstances be written in Swedish. It should always contain a brief popular scientific summary of a maximum of one page in

TRANSLATION FROM SWEDISH

English.

Oral presentation, 2 credits

The examination involves an oral presentation and a poster presentation. Criticisms and suggestions derived from the presentations should be considered and included in the final version.

Student review, 1 credit

Opposition includes critical review of another students report.

4. Objectives

After completed course the student should be able to

- assimilate practical experience in research methodology in bioscience and adjacent areas
- plan, perform and evaluate scientific experiments individually and independently
- integrate and apply acquired knowledge to solve scientific problems in bioscience and adjacent areas
- in a scientific way communicate scientific results orally and in writing,
- analyze and evaluate experimental data,
- write a popular scientific summary,
- discuss relevant ethical and gender aspects and describe the project's impact on the society, and
- critically review scientific reports.

5. Examination

The course is graded A (Excellent), B (Very good), C (Good), D (Satisfactory), E (Sufficient) or F (Fail).

The final grade is determined by a weighted mean value of the grades for the examination components Laboratory assignment and Essay. The average value is rounded to the nearest integer (half rounded up) and translated into a final grade.

Once the course is finished, access to additional supervision is limited, and determined by the school on a case-by-case basis. Access to such additional supervision cannot be granted more than one year after the course has finished.

The examinations of the course consist of the following modes of assessment:

- **Written assignment**
3 credits, grades: G/U
- **Laboratory assignment**
15 credits, grades: A/B/C/D/E/F
- **Essay**
9 credits, grades: A/B/C/D/E/F
- **Oral presentation**
2 credits, grades: G/U
- **Student review**
1 credit, grades: G/U

Students with a permanent disability who have been approved for directed educational support may be offered adapted or alternative modes of assessment.

6. Types of instruction and language of instruction

The teaching is comprised of presentations, laboratory sessions and supervision.

The teaching is conducted in English.

7. Course literature and other educational materials

Individual bibliography will be established in consultation with the respective supervisors.

8. Student influence

Student influence in the course is ensured by means of course evaluation. The students are informed about the results of the evaluation and potential measures that have been taken or are planned, based on the course evaluation.

9. Additional information

Further information about the course, as well as national and local governing documents for higher education, is available on the website of the University of Skövde.