



LUND
UNIVERSITY

Faculty of Science

BINP38, Bioinformatics: Applied Work, 15 credits

Bioinformatik: Praktik, 15 högskolepoäng

Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2017-02-13 to be valid from 2017-02-13, autumn semester 2017.

General Information

The course is an elective course for a degree of Master of Science in Bioinformatics.

Language of instruction: Swedish and English

The course is given in English, but can be given in Swedish if the student is Swedish-speaking.

Main field of studies

Bioinformatics

Depth of study relative to the degree requirements

A1F, Second cycle, has second-cycle course/s as entry requirements

Learning outcomes

The main aim of the course is that the student shall carry out bioinformatics tasks independently, but also gain a general professional experience, and develop contacts with potential future employers.

Knowledge and understanding

On completion of the course the student shall be able to:

- account for the tasks of a bioinformatician at a workplace
- give examples of applications in bioinformatics

Competence and skills

On completion of the course the student shall be able to:

- plan and carry out an internship with some independence
- work according to a time plan
- give a detailed written and oral presentation of the completed tasks

Judgement and approach

On completion of the course the student shall be able to:

- reflect on his/her education in relation to the needs and requirements of the labour market

Course content

The course includes planning, implementation, and presentation of an internship. The internship shall have a connection to a bioinformatics profession.

Course design

The student shall contact a workplace and find a supervisor. The work can be carried out at the university or at a company. The course is planned by the student in consultation with the supervisor, and must be approved by the examiner of the course before the work can start. The internship shall correspond to 45 working days á 8 hours. How the tasks are carried out shall continuously be documented in electronic form. An internship report shall be written after the internship has ended. The report shall contain a general description of the workplace, a detailed description of the performed tasks, as well as an evaluation of the internship. Documents produced during the internship can be attached to the report. In the written report, the student shall reflect on his/her education in relation to the general and subject-specific competence requirements of the workplace. The internship shall also be presented orally. Participation at the workplace during the internship, as well as the written report and the oral presentation, are compulsory.

Assessment

The examination takes place through approved participation during the internship, as well as passed compulsory components. The written report shall be delivered to the examiner no later than two weeks after the end of the internship.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, Pass.

To pass the course, approved participation in the work during at least 45 days as well as approved written internship report and approved oral presentation, are required.

Entry requirements

For admission to the course, knowledge corresponding to BINP11 Bioinformatics and Sequence Analysis 7.5 credits, BINP16 Programming in Python 7.5 credits, BIOS13 Modelling Biological Systems 7.5 credits, BIOS14 Processing and Analysis of Biological Data 7.5 credits, BINP26/BINP28 DNA Sequencing Informatics I 7.5 credits, as well as BINP27/BINP29 DNA Sequencing Informatics II 7.5 credits, is required. English B/6.

Subcourses in BINP38, Bioinformatics: Applied Work

Applies from V19

1901 Applied Work, 15,0 hp
Grading scale: Fail, Pass