



BB2440 Bioinformatics and Biostatistics 7.0 credits

Bioinformatik och biostatistik

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

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

Establishment

Course syllabus for BB2440 valid from Autumn 2010

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Biotechnology

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

This is an introductory course in bioinformatics and biostatistics. After passing the course, the student should:

- know the theory behind fundamental bioinformatics analysis methods.
- be familiar with widely used bioinformatics databases.
- know basic concepts of probability and statistics.
- be able to describe statistical methods and probability distributions relevant for molecular biology data.
- know the applications and limitations of different bioinformatics and statistical methods.
- be able to perform and interpret bioinformatics and statistical analyses with real molecular biology data.

Course contents

Disposition

The course consists of lectures and computer-based laboratory exercises.

Course literature

- Zvelebil and Baum, Understanding Bioinformatics (2007), Garland Science
- M. J. Crawley, Statistics: An Introduction Using R (Wiley)

This list might be subject to change. Any changes will be announced on the course homepage at least four weeks prior to course start.

Examination

- LAB1 - Laboratory Work, 2.0 credits, grading scale: P, F
- TEN1 - Written Examination, 5.0 credits, grading scale: A, B, C, D, E, FX, 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.

Other requirements for final grade

TEN1 – Written examination, 5.0 credits, grade scale: A, B, C, D, E, FX, F

LAB1 – Laboratory work, 2.0 credits, grade scale: P, F

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.