



BB2440 Bioinformatics and Biostatistics 7.0 credits

Bioinformatik och biostatistik

Course syllabus for BB2440 valid from Autumn 10, edition 2.

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 main content

Disposition

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

Eligibility

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, grade scale: P, F
- TEN1 - Written Examination, 5.0 credits, grade scale: A, B, C, D, E, FX, F

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