FDD3436 Scientific Programming in Python for Computational Biology 5.0 credits

Vetenskaplig programmering i Python för beräkningsbiologi

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

Establishment

Course syllabus for FDD3436 valid from Spring 2013

Grading scale

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Education cycle

Third cycle

Specific prerequisites

DD2397 Applied Bioinformatics or the equivalent

Language of instruction

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

Intended learning outcomes

Course participants should through this course raise the level of their scientific programming. This means both theory and practice on distributed software development, sharing of code, and advanced programming in Python, always with problems in computational biology in focus.

Course contents

Distributed project management including using version control systems for source code. Important code libraries in Python. Efficient programming in Python. Parallel programming in Python. Efficient troubleshooting.

Examination

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.

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

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.