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Lectures are weekly: WED 10-12am and FRI 1-3pm

Lectures in the week 11 Feb - 16 Feb 2024 will be replaced by video-lectures (more detail will be announced)

Course examination:

- 3 home assignments (total 6 credis)
- 1 oral or written exam (1.5 credits, P/F)

You pass the course, if you have in total at least 50% of the home assignments correct and if you pass the oral exam

For those taking this course as PhD-course, additional assignment(s) are required [will be specified at homepage]
Q: How many Phd-students?

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All solutions must be provided in English

Team work to discuss the exercises is allowed and also recommended, BUT:

- everyone has to hand in an individual and independent solution of the exercies
- you must be able to explain your solutions upon request
- no copies of solutions
- never forget name + student number

The deadlines when to hand-in are specified at DA7065 web page.

When handing in programming exercises, always document how to compile and run your program (if needed). Well-commented source code is required.

Do NEVER copy source-code from WWW! NOTE algorithms as for finding genes can easily be applied to find plagiarism ;) **(Exercise!)**

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And now: “Happy Computational Biology!”

Questions?

About this course

From a general point of view, the aim of this course is to learn about:

- ... common problems in molecular biology
- ... to formalize biological problems (i.e.: how to turn a fuzzily described problem to a mathematical/computational problem)
- ... algorithmic techniques for solving common problems in molecular biology
- ... function and implementation of important bioinformatics software

All these need (some) knowledge in computer science and mathematics.

The knowledge about biology you need here, will be provided in this course.

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Putative outline:

1. Some history (Warm Up + Cracking the genetic code)
2. DNA sequencing
3. String matching (Z-Alg and Suffixtrees)
4. Comparing sequences (Alignments and Co)
5. RNA structures
6. Phylogenomics
7. Homology Relations
8. Phenotypespaces and Graph Products