

- Faculté des sciences
- www.unine.ch/sciences

Bioinformatics tools (3BL2194)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en biologie	Cours: 3 ph	controle continu: 1	3

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

Période d'enseignement:

- Semestre Automne

Equipe enseignante:

Nikolai Ivanov, Thomas Junier, Pilar Junier (coordinator)
Assistants: Fabio Palmieri, Mathilda Hayoz

Objectifs:

To acquire an understanding of some topics in bioinformatics and to learn to use algorithms and analysis tools.

Contenu:

The content of this course includes the following topics:

- 1- Introduction to Unix
- 2- Sequencing analysis
- 3- Genome assembly
- 4- Metagenomics
- 5- Epigenetics

Forme de l'évaluation:

Exercises to be graded during each practical lecture.

If the final mark obtained is insufficient, the student has to hand in two critical essays on the topics developed, at most two weeks after the end of the class (09.12.2016).

Documentation:

Bioinformatics for Biologist. Edited by Pavel Pevzer and Ron Shamir. Cambridge University Press. 2011.

Pré-requis:

Reading of scripts before lectures and exercises.

Forme de l'enseignement:

Lectures and computer lab. Participation to the computer lab is mandatory (grading during the practical).

URLs	1) https://claroline.unine.ch/claroline/course/index.php?cid=3BL2194_001
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