

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

Bioinformatics tools (3BL2194)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en biologie	Cours: 3 ph	contrôle 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, Matthieu Bueche, Pilar Junier (coordinator)

Objectifs:

The objective of this course is to get an understanding of some topics within 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- Epigenetics
- 5- Phylogenetics
- 6- Metagenomics

Forme de l'évaluation:

Exercises to be graded during each practical lecture.

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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