

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

Bioinformatics tools (3BL2194)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en biologie	Cours: 3 ph	Voir ci-dessous	3

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

Période d'enseignement:

- Semestre Automne

Equipe enseignante:

Lecturers: Nikolai Ivanov, Thomas Junier, Daniel Croll (coordinator)

Assistants: Ursula Oggenfuss, Nikhil Kumar Singh

Objectifs:

To acquire a basic understanding of bioinformatics including important algorithms and analysis tools.

Contenu:

The content of this course includes the following topics:

- 1- Introduction to Unix and scripting
- 2- Sequencing analysis
- 3- Genome assembly
- 4- Phenotype-genotype associations
- 5- Epigenetics

Forme de l'évaluation:

Exercises to be graded during each practical lecture. If a student misses a practical, the student needs to make arrangements with the lecturers. If the final mark 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 (10.12.2017).

Documentation:

More information will be provided on Moodle.

Recommended book: 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 in 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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