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

## Models and parameter estimation (3BL2189)

| Filières concernées | Nombre d'heures | Validation | Crédits ECTS |
|---|---|---|---|
| **Master en biologie** | **Cours: 30 pg** | **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**

Jacob Koella

**Contenu**

The students will write in R theoretical models about evolutionary ecology. There will be time available to write the programs during class, but it is expected that students will finish their programs as homework. Each student must hand in homework, and I will select one or two students to present their homework to the others.

A typical class will consist of three parts. First, one of the students will present and describe his or her program and the results to the class, so that we can discuss the difficult aspects of R. Then I will discuss the theory underlying the next project. Finally, there will be time to work on the programs.
The first one or two weeks will be reserved to learn the basics of programming in R.

**Forme de l'évaluation**

At the beginning of a few classes, I will give a short (and easy) exam about a topic in R, and calculate the average grades for these exams. I will grade two randomly chosen programs for each student, and average the grade of these two assignments. I will also grade the presentation. The final grade will the average of the homework and the oral presentation.
Reexamination in case of failure must be registerd for next sessions same year and coordinated with the professor (not in Pidex)

**Documentation**

Handouts

**Pré-requis**

Basic mathematics is necessary.

**Forme de l'enseignement**

Lectures and practical