

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

From genes to ecosystems (3BL2236)

| 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 Printemps

Equipe enseignante

Prof. Sergio Rasmann

Contenu

This course includes a theoretical part and excursions.

Theoretical part: After an initial introduction to theoretical concepts and examples for performing integrative research and species interaction, students will be introduced to the different ecosystems around the Canton of Neuchâtel.

Excursions: Two excursions will allow students to discover contrasted ecosystems in the region of Neuchâtel (e.g. nutrient-poor dry meadows, peatlands, forests) and apply some of the methods discussed in the theoretical part for answering ecological questions.

Forme de l'évaluation

CA graded : 2 in-class assignments, 1 presentation, and 1 excursion assignment, and 1 final report.

In case of failure, the student can provide a corrected version of the assignments and of the final report to reach sufficiency. The retake attempt must be registered at next session and coordinated with professor (not in Pidex).

Pré-requis

Participation to excursions is limited to students with good physical capacity (walking in uneven terrain, and uphill at standard speed). Students unsure of their capacity are required to contact Sergio Rasmann before the excursions.

Forme de l'enseignement

This course includes a theoretical part and excursions. Students will apply concepts discussed in the courses during the excursions and will prepare a short reports based on their observations and interpretations.

Objectifs d'apprentissage

Au terme de la formation l'étudiant-e doit être capable de :

- Tester des hypothèses
- Rédiger des rapport scientifiques
- Identifier des questions en écologie
- Communiquer des résultats scientifiques
- Développer des expériences

Compétences transférables

- Gérer des projets
- Stimuler sa créativité
- Appliquer ses connaissances à des situations concrètes
- Synthétiser des analyses basées sur des approches méthodologiques différentes
- Communiquer dans une seconde langue avec détection des risques spécifiques ("faux frères")