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## Applied analytical methods (3CH2017)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
<b>Master en biologie (*)</b>	<b>Cours: 3 ph</b>	<b>écrit: 2 h</b>	12

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

### Période d'enseignement:

- Semestre Printemps

### Equipe enseignante:

Philip Brunner, Daniel Hunkeler, Pilar Junier, Reinhard Neier, Ted Turlings

### Objectifs:

The revised title of this course is Soil quality and water management. Teachers from different disciplines (chemistry, hydrogeology, microbiology and ecology) will provide insights into how agricultural fields can be managed to minimize ecological risks, ensure soil health and optimize crop performance.

The main objective of this course is to offer a hands-on approach and to demonstrate the power of the interdisciplinary methods used to study and to understand the complex web of interactions between Soil quality and water management.

### Contenu:

We will discuss aspects of agricultural practices, water management, soil sampling and analyses for pesticide residues, and the application beneficial organisms. The course includes an excursion to a water management field site, as well as soil sampling in local vineyards.

### Forme de l'évaluation:

Written exam 2 hours: composed of one case study to analyse and a series of short question/short answers

### Documentation:

<https://claroline.unine.ch/>

### Pré-requis:

University introductory courses in general chemistry and geology.

### Forme de l'enseignement:

Lectures, excursions and practicals

(\*) Cette matière est combinée avec d'autres matières pour l'évaluation