

- Faculté des sciences
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### Soil and water management (3BL2234)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
<b>Master en biologie</b>	<b>Cours: 30 pg</b>	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

P. Brunner, D. Hunkeler, P. Junier

#### Contenu

The course discusses challenges in the context of the water-soil- agriculture nexus. Specifically, the following themes are discussed:

- Quality and quantity of water resources
- Water consumption in agriculture
- Sustainable water resources management and agriculture
- Impact of fertilizer and pesticides on surface and subsurface water quality
- Introduction to sustainable management practices in agriculture
- Microbiological aspects of soil fertility and agricultural production

#### Forme de l'évaluation

CA graded : 2 forms of evaluation will take place and are weighed according to the hours thought: For the part of Pilar Junier (soil- microbiology) students present an article in groups and individually summarize one of the articles presented. For the parts on water quantity (Brunner) and quality (Hunkeler) a written open book exam on the last day (1h) will be carried out.

In case of an insufficient grade of the course, a written exam covering all aspects of the course will take place during the next exam session.

#### Documentation

PPTs on moodle

#### Pré-requis

A solid background in biology and basic chemistry

#### Forme de l'enseignement

Lectures, student presentations and an excursion