

- Faculté des sciences
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## Seminars in applied ecology (3BL2223)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
<b>Master en biologie</b>	<b>Séminaire: 2 ph</b>	<b>controle continu: 1</b>	2

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

### Période d'enseignement:

- Semestre Printemps

### Equipe enseignante:

BINDSCHEDLER Saskia  
LE BAYON Claire

### Objectifs:

LE BAYON Claire - General knowledge on ecosystem engineers at different spatio-temporal scales with a strong link to ecosystem services. This course will focus more specifically on belowground biodiversity and soil ecosystem functioning.

BINDSCHEDLER Saskia - This lecture will focus on understanding the role of fungi in soil formation as well as their action as geomicrobiological agents. The latest research news in the field and research performed in our laboratory will be presented.

### Contenu:

LE BAYON Claire

1. Historical aspects of ecosystem engineering
2. Ecosystem engineers as a current ecological concept
3. Study cases
4. Soil macrofauna

BINDSCHEDLER Saskia

1. Earth colonization by fungi
2. Fungi as geomicrobiological agents
3. The role of fungi in nutrient cycling.

### Forme de l'évaluation:

Please refer to the study plan of the master.

### Documentation:

PDF files and books/papers references.

References in mycology : 1) Alexopoulos C & Mims C, 2007, Introductory Mycology ; 2) Bennet J, 2005, The fungal community ; 3) Gow N, Robson G & Gadd M, 1999, The fungal colony ; 4) Ingold C & Hudson H, 2003, The biology of fungi ; 5) Moore D, 1998, Fungal morphogenesis.

### Pré-requis:

Basic knowledge on ecology and pedology. Basic concepts in mycology of a Bachelor level.

### Forme de l'enseignement:

Ex cathedra classes.