


2.00 credits

30.0 h

Q1

Teacher(s)	Baguette Michel ;
Language :	English
Place of the course	Louvain-la-Neuve
Prerequisites	To follow this course, it is necessary to master the knowledge and skills developed in the courses LBIO1117 (Ecology I) et LBIO1223 (Molecular biology)
Main themes	In this advanced ecology course we cover aspects of individual and population ecology that are important in adaptation and evolution, such as ecophysiology, phenotypic plasticity, dispersal and life history variation.
Learning outcomes	
Evaluation methods	Combined oral and written examination with three open questions on the material covered in the course, and one question on the interpretation of experimental results taken from the literature in the field. Preparation time 30 minutes, then 15 minutes interview with the teacher on the open questions. Interpretation of experimental results will be marked on the preparation paper. Each question will be marked out of 5.
Teaching methods	Theoretical course with lectures.
Content	In this advanced ecology course, we treat aspects of individual and population ecology that are important for adaptation: fitness and trade-offs between phenotypic traits, notably life-history traits, the role of phenotypic plasticity in adaptation, the importance of behaviour, especially learning behaviour, in local adaptation. We will discuss experimental studies to illustrate the collection and analysis of data in functional ecology.
Inline resources	The contents of the course and announcements are available on Moodle: LBIO1317 on Moodle
Bibliography	Livre de référence "Ecologie, l'économie de la nature» par Ricklefs et Relyea (2019), disponible à la bibliothèque des Sciences et en ligne pour les étudiants inscrits à UCLouvain.
Other infos	The course will be taught in English, but questions can be asked in French.
Faculty or entity in charge	BIOL

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Minor in Scientific Culture	MINCULTS	2		
Bachelor in Biology	BIOL1BA	2		