UCL Université catholique de Louvain

LBOE2140

2015-2016

Ecologie du paysage

4.0 credits	24.0 h + 24.0 h	1q

Teacher(s) :	Van Dyck Hans ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	1) Definition and history of landscape ecology 2) Structural components of landscapes: spatial analysis 3) Habitat fragmentation: patterns and consequences 4) Movements by organisms: Structural versus functional connectivity of landscapes 5) Landscape ecology and conservation: ecological networks, corridors and de-fragmentation measures 6) Use of spatial software tools (GIS-applications) 7) Practical applications: bridging the gap between ecological science and policy making/landscape management
Aims :	Landscape ecology addresses how to describe and quantify - and in particular how to understand - ecosystems at the landscape level by analyzing biotic, abiotic and human factors. In this course we particularly focus on the ecological functioning of landscapes within the frame of habitat fragmentation and the mobility of organisms. Students need to know the key concepts of landscape ecology and need to understand in particular the difference between structural and functional landscape connectivity (in whatever application). Students should be familiar with the research methods used (empirical and modeling work). They should also be aware of the potential communication problems between ecologists and non-ecologists in practical multi-disciplinary projects. *The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".*
Faculty or entity in charge:	BIOL

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [60] in Biology	BIOL2M1	4	-	
Master [120] in Biology of Organisms and Ecology	BOE2M	4	-	
Master [120] in Geography : General	GEOG2M	4	-	
Master [120] in Forests and Natural Areas Engineering	BIRF2M	4	-	