UCLouvain

lbio1114

2021

Introduction to biology

3.00 credits	30.0 h + 7.5 h	Q2

Teacher(s)	Dumont Patrick ;Nieberding Caroline ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	The cell and organelles How physics and chemistry are implicated in the structure and function of the cell. How cells are studied. The programme and the nucleus; the membranes and compartments; the energy and syntheses; the movement and cell organisation. The control of cell behaviour by extra- and intracellular signalling. The transmission of the programme. The integration of cells into a pluricellular organism. The differentiation and variety of cells ensure the diversity of organism's functions (protection, motility, inputs and outputs of metabolism, coordination, reproduction) The evolution guided the history of living things. The origin of life, the major kingdoms and their diversity, the mechanisms of evolution. The organisms are associated within the biosphere, with complex interactions. Biosphere and diversity of environment, ecosystems and communities (food networks, energy pyramid, biogeochemical cycles), populations (growth, regulation, human population).
Learning outcomes	**At the end of this learning unit, the student is able to :** 1 The course consists in an initiation to fundamental concepts in biology, with examples of applications. It features the particularities of the approach in biology, facing the complexity and diversity of its objects.
Inline resources	https://moodleucl.uclouvain.be/course/view.php?id=9471
Bibliography	Ouvrage de référence : N.A. Campbell et J. Reece, Biologie (7ème édition), De Boeck Université.
Other infos	Prerequisites: none. Teaching method: lectures with contribution of current media.
Faculty or entity in charge	SC

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Minor in Scientific Culture	MINCULTS	3		
Interdisciplinary Advanced Master in Science and Management of the Environment and Sustainable Development	ENVI2MC	3		
Master [120] in Environmental Science and Management	ENVI2M	3		