UCL Université catholique de Louvain

LBIO1111

2016-2017

Cell biology and introduction to prokaryotes, protists and fungi

5.0 credits	37.5 h + 18.0 h	1q

Teacher(s) :	Lejeune André ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	The cell, fundamental unit of all living beings, is studied first to initiate the students to the mechanisms that rule the functioning of life and its particularities. On this basis, the course then studies the cellular diversity and the structural and functional diversity of uni- and multicellular organisms constituting the different kingdoms, their position in the evolution and the growing complexity of their organisation. The mechanisms of evolution are also envisioned, as well as the interactions between the living beings and their environment.
Aims :	Introductory course to biology. The objectives are to know and understand: - the constants in structure and function of cells that cover the large diversity that can be observed; - the relations between structures and function at the level of cells and whole organisms making use, among others, of notions of physics and chemistry; - the mechanisms of life transmission; - the diversity of living beings and the main evolutionary strategies. *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".*
Content :	B. PLANT BIOLOGY (22.5h of lectures + 17h of laboratory; 3 credits) The plant biology course aims at understanding the important stages in plant morphogenesis and plant functioning. After an overview on plant evolution and diversity, the course concentrates on flowering plants and addresses the following topics : 1) organography; 2) the formation of the seed and germination ; 3) the primary growth (in length) ; 4) the secondary growth (in width) ; 5) mineral nutrition and the circulation of water and mineral and organic solutes ; 6) the structure of the flower and reproduction. C. ANIMAL BIOLOGY
Faculty or entity in charge:	SC

Programmes / formations proposant cette unité d'enseignement (UE)

Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Bachelor in Biology	BIOL1BA	5	-	
Minor in Scientific Culture	LCUSC100I	5	-	
Bachelor in Geography : General	GEOG1BA	5	-	
Bachelor in Veterinary Medicine	VETE1BA	5	-	
Bachelor in Chemistry	CHIM1BA	5	-	