UCLouvain

wmd1120

2021

10 credits	75.0 h + 25.0 h	Q1

Teacher(s)	De Smet Charles ;Demoulin Jean Baptiste (coordinator) ;Kienlen-Campard Pascal ;
Language :	French
Place of the course	Bruxelles Woluwe
Main themes	In a first part of the course, the cell is studied by closely associating morphology and function. The diversity and evolution of the living is first tackled by the study of meiosis, fertilization and Mendelian genetics. The study of animal evolution from the first animals to modern Man is based on arguments of anatomy and compared embryology illustrating the principle « ontogeny recapitulates phylogeny ».
Aims	1 After this course, students should understand the basis of life on Earth and be able to answer the following key questions: what are living organisms, what do they have in common, and what differentiates them. These lectures constitute a framework that will be developed in more detailed courses in the following years, with a special focus on cellular and molecular biology, Mendelian genetics and evolution from bacteria to modern Man. Those aims try to develop qualities of intellectual curiosity, observation, reasoning, synthesis, scientific rigour, oral, written and iconographic expression, and finally of self-learning, stimulating the consultation of books, scientific reviews, and informatics materials (CD-Rom, websites). - - - - *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".*
Evaluation methods	**Due to the COVID-19 crisis, the information in this section is particularly likely to change.** Assessment: Written exam.
Teaching methods	**Due to the COVID-19 crisis, the information in this section is particularly likely to change.** The course includes lectures, practical works and tutorials.
Content	Contents: (this course is given in French) Chapter 1: The chemistry of life Chapter 2: The cell Chapter 3: Cell physiology Chapter 4: Cell communication and signaling Chapter 5: Reproduction and genetics Chapter 6: Cell differentiation and embryology Chapter 7: Evolution Chapter 8: Experimental biology (for biomedical students only).
Inline resources	See Moodle
Other infos	
Faculty or entity in charge	FASB

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Biomedicine	SBIM1BA	10		🔍