UCLouvain

lfsm1104

2026

Biology and fundamentals in histology

5.00 credits	45.0 h	Q2

Teacher(s)	Henriet Patrick ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	• Characteristics common to all living beings • The human cell, its functioning and its division • Classical, evolutionary and molecular genetics • The cellular bases of sexual reproduction • The different cell types and their organization into tissues (epithelia, connective tissues, blood tissue, muscle tissue, nervous tissue) • The main stages of human embryonic development.
Learning outcomes	**At the end of this learning unit, the student is able to :** 1 • Demonstrate knowledge and understanding of the foundations of the uniqueness and diversity of the living world (2.1,11.1 Kiné / 9.1 EP) • Demonstrate knowledge and understanding of the structure and functioning of the cell and the human genome (2.1, 11.1 Kiné / 9.1 EP) • Describe and explain the mechanisms of cell division and the bases of embryonic development (2.1, 11.1 Physio / 9.1 EP) • Describe and explain the structure of the main types of human tissue, including particularities relating to movement. (2.1, 11.1, 11.2 Kiné/ 9.1 and 9.2 EP)
Evaluation methods	Assessment: 2-hour written exam. The distribution between the two parts of the course is as follows: 10 points for biology (P. Henriet part) and 10 points for histology (C. Behets part).
Teaching methods	Lectures, for a large audience
Content	(auteurs - titulaires actuels) : P. Henriet and C. Behets Wydemans **Biology (P. Henriet)**: 1. UNICITY IN THE LIVING WORLD 2. THE HUMAN CELL 3. DIVERSITY IN THE LIVING WORLD 4. MOLECULAR GENETICS 5. CELL DIVISION 6. GAMETOGENESIS AND FERTILIZATION 7. INTRODUCTION TO HUMAN EMBRYOLOGY **Histology (C. Behets Wydemans)**: 1. EPITHELIAL TISSUE 2. CONNECTIVE TISSUE 3. BLOOD TISSUE 4. MUSCLE TISSUE 5. NERVE TISSUE 2.6.0.0
Other infos	The Biology part is based on the LFSM1101 General Chemistry and Biomolecules course. Course materials: Syllabus and Powerpoints projected during classes. This course is reserved for FSM students. Its access is possible to other UCLouvain students on the basis of a file to be given to the course coordinator.
Faculty or entity in charge	FSM

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Motor skills : General	EDPH1BA	5		
Bachelor in Physiotherapy and Rehabilitation	KINE1BA	5		