WFYSL1210

2013-2014

General Physiology

8.0 credits	60.0 h + 24.0 h

Teacher(s) :	Gailly Philippe ;
Language :	Français
Place of the course	Bruxelles Woluwe
Main themes :	The animal is an open thermodynamic system : it is characterized by its ability to exchange matter and energy with its environment and to maintain itself in a steady-state by using the energy transformed in metabolic processes. If it follows basic laws of physics, it also has its own properties: in particular, it controls the thermodynamic exchanges via information transmitted between cells, organs and external milieu. Some basic functions therefore depend on cellular properties, others are due to characteristics of the whole organism.
Aims :	General physiology is taught at the beginning of a cycle of two years leading to an understanding in depth of the organization and functioning of a healthy human body. The mechanisms of elementary functions common to all living cells are analysed in terms of basic laws of physics and chemistry. The course is a prerequisite for studying human physiology of and pathology. *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 :	Evaluation& bsp;: written exam.
Content :	Lectures are oriented in a physico-chemical perspective. Solid bases in these scientific matters, acquired in BAC1, are therefore required. Besides, physiology is an experimental discipline: laws describing basic functions of living cells are deduced from experimental observations. Practicals: Two aims: - to illustrate some chapters of theoretical lessons ; - to introduce students to the experimental method, to the adequate and precise description of the results obtained with simple methods, critical analysis.
Cycle and year of study :	> Bachelor in Medecine (Bachelor + Master : 7 years)
Faculty or entity in charge:	MED