

In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.

2 credits

15.0 h + 7.5 h

Q1

Teacher(s)	Feron Olivier ;
Language :	French
Place of the course	Bruxelles Woluwe
Prerequisites	<i>The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.</i>
Main themes	Comprehensive outline of the mechanisms regulating cell homeostasis (intra and extracellular buffers, mechanisms of exchange of materials and information between intracellular and intracellular compartments, intercellular communication).
Aims	<p>1 By the end of this course, the students will possess a general knowledge of fundamental concepts in cell physiology, and in particular the principles of cell homeostasis and the interaction of the cell with its environment. In this perspective, the animal cell is considered as a single biological unit participating in the formation of an integrated organism.</p> <p>-----</p> <p><i>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".</i></p>
Evaluation methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. Questions requiring short-open-responses most often involving diagrams/schemes to be built or completed.
Teaching methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. Lectures (slide projection, interactive poll). Flipped classroom for some parts of the course.
Content	The course first addresses the general mechanisms that ensure the maintenance of the internal environment and the exchange of materials with the surrounding environment. The study of intercellular communications then highlights the chemical and electrical means available to the cells for the transmission of the many information essential for the control and regulation of vital functions. Finally, a chapter is devoted to the study of contractile properties and excitation-contraction coupling mechanisms in different types of muscles. For students in the FARM section (Pharmaceutical Sciences), tutorials (in computer room) illustrate and complete the theoretical courses.
Inline resources	All the documents projected during the courses are accessible on UCL's Moodle website.
Other infos	Pré-requis : WMD1120P Biologie générale ou équivalent (WMEDE1112), WMD1006 Cytologie et histologie générales ou équivalent (WMDS1105) et WFARM1009 Elts d'anatomie générale ou équivalent (WMDS1103).
Faculty or entity in charge	FARM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Pharmacy	FARM1BA	2	WMD1102 AND WMD1120P AND WMD1006	