UCLouvain

wfarm1212

2020

Due to the COVID-19 crisis, the information below is subject to change, in particular that concerning the teaching mode (presential, distance or in a comodal or hybrid format).

2 credits	15.0 h + 7.5 h	Q1

Teacher(s)	Feron Olivier ;
Language :	French
Place of the course	Bruxelles Woluwe
Prerequisites	*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.*
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	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. - - - - *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.** Questions requiring short-open-responses (QSOR) most often involving diagrams/schemes to be built or completed. The exam also includes an introductory set of multiple-choice questions (MCQ) covering basic and essential course concepts; a score of >75% on this MCQ is mandatory for the scores on the QSOR to be added into the final scoring .
Teaching methods	**Due to the COVID-19 crisis, the information in this section is particularly likely to change.** Flipped classroom. Lessons are made available as podcasts and specific live sessions (remote access, e.g. via Teams) are organized at indicated times (see Moodle) to address students' questions. For FARM (not DENT) students exercises will also be available online.
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	Podcasts and ppt files are accessible via Moodle.
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). For FARM students, participation in tutorials and practice sessions is mandatory to validate the teaching unit. Any unjustified deviation from this rule leads to a penalty in the teaching unit (TU) exam which can go as far as the cancellation of the exam mark (0/20). The teacher may also propose to the jury to oppose the registration for the TU exam in compliance with article 72 of the RGEE.
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	