UCLouvain

Eléments de physiologie générale

2.00 credits

wfarm1212

2021

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). | | | | |
| Learning outcomes | At the end of this learning unit, the student is able to : | | | | |
| J | 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. | | | | |
| Evaluation methods | Questions requiring short-open-responses (QSOR) most often involving diagrams/schemes to be built or completed + multiple-choice questions (MCQ). | | | | |
| Teaching methods | Lecture in auditorium + flipped classroom for some parts of the course (= podcasts supplemented by sessions in auditorium to answer students' questions). | | | | |
| 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 | Learning outcomes | | |
| Bachelor in Pharmacy | FARM1BA | 2 | WMD1102 AND WMD1120P AND WMD1006 | ٩ | | |