

2.00 credits

15.0 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).
Learning outcomes	
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.
Bibliography	Support : L'ensemble des documents présentés aux cours sont fournis aux étudiants. Ces documents sont en outre accessibles sur Internet via le site iCampus de l'UCL.
Other infos	<p>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).</p> <p>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.</p>
Faculty or entity in charge	FARM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Dentistry	DENT1BA	2	WMEDE1112 AND WMDS1105 AND WMEDE1100 AND WDENT1110 AND WMDS1109	