

6.00 credits

40.0 h + 25.0 h

Q1

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	Cells and living beings are thermodynamic open systems, and exchange matter and energy with their environment. General physiology study cell homeostasis, the mechanisms regulating the exchanges between cells, and the interactions between cells and their environment.
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>1 The objective is to study the basic concepts of cellular physiology and the fundamental properties of eukaryotic cell.</p>
Evaluation methods	<p>Questions requiring short-open-responses (QSOR) most often involving calculations and diagrams/ schemes to be built or completed + multiple-choice questions (MCQ).</p> <p>The number of questions will reflect the hourly volumes of each teacher. The final mark will take into account the results in each part, in the form of an arithmetic average weighted according to the hourly volumes of each teacher.</p>
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.
Inline resources	see WSBIM1201T & WSBIM1201P
Other infos	see WSBIM1201T & WSBIM1201P
Faculty or entity in charge	SBIM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Biomedicine	SBIM1BA	6	WFASB1102 AND WSBIM1103 AND WSBIM1100 AND WSBIM1101	