UCLouvain

wmds1210

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).

6 credits	55.0 h + 10.0 h	Q1

Teacher(s)	Gailly Philippe ;
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.*
Aims	*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.** The student will demonstrate his/her learning outcomes in a written exam: questions with short answer (QSA) and/or multiple choice (QMC). When QMC are presented, one or more answers are proposed. The student must have all the correct answers to obtain the point. No negative points are counted. When QSA are offered, the student must answer in a structured and concise manner in the space provided for the answer. Care and precision are required (remember to give the units of the values used, etc).
Teaching methods	**Due to the COVID-19 crisis, the information in this section is particularly likely to change.** The teaching activity consists of a lecture (55 hours) in the auditorium where the different contents are explained by the teacher in charge of the course. Exercises and demonstrations are carried out in the auditorium (TD 10h).
Content	The teaching is essentially oriented in a physical and physico-chemical perspective: the knowledge acquired in the first year is therefore fundamental. Moreover, physiology is an experimental science: it is from the description of observations that the theories explaining the basic cellular functions are deduced. Finally, special emphasis will be placed on the cellular bases of certain diseases. The practical work is done in large audiences and consists of exercises and demonstrations. Their purpose is to illustrate and explain theoretical concepts. They also introduce the students to the experimental approach and the adequate and precise description of results obtained with simple methods and a critical analysis of the observations.
Inline resources	Course materials: 3 syllabi (Moodle and/or paper copies)
Bibliography	Bibliographie de référence recommandée aux étudiants Ouvrages généraux Purves et al. Neurosciences. De Boeck Blaustein, Kao & Matteson : Cellular physiology. Elsevier Mosby Sperelakis : Cell physiology. Academic Press Boron & Boulpaep : Medical physiology. Saunders Flux de matière Glaser : Biophysics. Springer Hille : Ion channels of excitable membranes. Sinauer Schultz : Basic principles of membrane transport. Cambridge University Press Flux d'information et d'énergie Aidley : The physiology of excitable membranes. Cambridge University Press Cowan, Südhof & Stevens : Synapses. Johns Hopkins Kandel, Schwarz & Jessel : Principles of neural science. Appleton & Lange Kayser : Physiologie. Livre deuxième : Système nerveux. Muscle. Flammarion Meunier & Shvaloff : Neurotransmetteurs. Masson Abrégés Tritsch, Chesnoy-Marchais & Felz : Physiologie du neurone. Doin

Faculty or entity in charge	MED

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Medecine	MD1BA	6	WMEDE1100 AND WMDS1110	🔍