

3.0 credits	22.5 h	2q
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Teacher(s) :	Tajeddine Nicolas ;
Language :	Français
Place of the course	Louvain-la-Neuve
Prerequisites :	General and genetic biology (PSP1131, A. Moens).
Main themes :	Introductory study of the working of the human body. Emphasis on the exchange of matter, energy and information between, first, the body and its surroundings and, second, the different parts of the body. Topics include : the main systems (cardio-vascular, respiratory, urinary, digestive, blood, reproductive), then the control systems (endocrine system and autonomic nervous system), demonstrating the constraints of these systems on behaviour.
Aims :	To provide first year students with an understanding of how the human body works, based on knowledge of the life of the cell, and prepare them for study of the nervous system and psychophysiology. <i>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".</i>
Evaluation methods :	written examination in the form of a multiple choice questionnaire.
Content :	Introductory study of how the human body works : starting from knowledge of the animal cell from the general biology course, the first subject for study is the different tissues found in physiological systems (epithelia, conjunctive and derived tissues, movement tissues, nervous tissue) ; then the main systems are covered (blood, circulatory, respiratory, digestive, urinary) to show each system contributes to the life of the whole body by exchanging matter and energy with the other systems and with the surroundings. There is more in-depth study of information exchange within the body : hormonal mechanisms which regulate growth and ensure maintenance of homeostasy; nerve information mechanism (potential for action and transmission via synapses, organization of nerve cells in groups). This latter part is direct preparation for the study of the physiology of the nerve system and psychophysiology. Finally, the working of the reproductive system and its hormonal regulation in men and women is studied.
Bibliography :	Recommended readings& bsp:: -- Silverthorn, Dee Unglaub. Human physiology: an integrated approach (4th edition). Pearson Education 2010. -- Marieb, Elaine N. Human Anatomy and Physiology (6th edition). Pearson Education 2010. -- Barrett, Kim E. Ganong& squo;s Review of Medical Physiologie (23rd edition). McGraw-Hill Medical 2009.
Cycle and year of study :	> Bachelor in Psychology and Education: General > Bachelor in Psychology and Education : Speech and Language Therapy > Preparatory year for Master in Family and Sexuality Studies
Faculty or entity in charge:	PSP