UCLouvain

lvete1390

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).

8 credits	45.0 h + 60.0 h	Q1

Teacher(s)	Gofflot Françoise ;
Language :	French
Place of the course	Louvain-la-Neuve
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	Within the body, the different tissues are composed of specific structures and specialized cells that assemble to form organs, which will ultimately participate to the major functional systems of the animal. In this course, we will study in detail the morphological and functional characteristics of the main functional systems of the body, namely the cardiovascular, integumentary, lymphatic, digestive, respiratory, urinary, reproductive and endocrine systems. We will also tackle the central nervous system and the senses organs.
Aims	1 This course is built upon and extends the concepts acquired in the course of 'general histology' (LBIO1232A). It is aimed to provide veterinary students with a panorama of organs' histology and functions in correlation with the course of 'animal physiology'. The emphasis is put on the histology of domestic animals and on comparative aspects among different species. The histological analysis is more or less detailed according to the importance of the physiological and biochemical processes which take place in the studied tissue, and depending on the clinical and pathological significance of the system. - - - - *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.** Theoretical concepts are evaluated during an oral examination by two opened questions concerning two different systems studied in the course. The evaluation of histological sections takes place the same day and is also an oral examination. Using a light microscope, the student will have to identify and characterize cells, tissues and organs on similar histological preparations as those observed during the practical exercises. A continuous assessment is implemented during term • For the theoretical part, this evaluation is formative for the students, in order to consolidate their learning • For the practical part, it is a certificate evluation for the students, that contributes to the final grade of the exam
Teaching methods	**Due to the COVID-19 crisis, the information in this section is particularly likely to change.** **The teaching** involved ex cathedra lectures using powerpoint presentations and blackboard drawings, illustrating the different systems with pictures of histological sections and with diagrams. ***In 2020-2021:*** the interactive lecture will be given in co-modality: part of students in presential and part students at distance, with alternating groups. In addition in each chapter, some sections are studied by the students through self-learning. A continuous formative evaluation will be implemented, thanks to Test / Quiz accessible on Moodle at the end of each chapter. **During practicals ,** histological sections of the different organs studied in the main lectures are available to students for analysis on light microscope, to observe the key features of cells and tissues and their integration into organs. • Students prepare the practicals by watching an introductory podcast on Moodle (self-learning). • The practical work sessions begin with an assessment of the achievements of the previous session, assessment taken into account in the examination mark (continuous certification evaluation) Each session of practical exercises begins with an evaluation of the concepts studied in the previous session, and this evaluation is included in the final note.
Content	The course is organized into 11 chapters that review the major systems of the organism 1- Cardiovascular system 2- Integumentary system 3- Lymphatic system

	4- Digestive system 5- Respiratory system 6- Urinary system 7- Male reproductive system 8- Female reproductive system 9- Endocrine system 10- Sense organs (Eye, Ear) 11- Central nervous system
Bibliography	Atlas de référence : - Atlas d'Histologie Fonctionnelle de Weather, Eds Young, Lowe, Stevens and Heath, De Boeck 2008 (traduction 5e edition anglaise) Autres sources: - Textbook of Veterinary Histology, Ed Samuleson, Saunders Elsevier 2007 - Histologie et Biologie Cellulaire, Ed Kierszenbaum, de Boeck 2006 - Histologie, Ed Lullman-Rauch, de Boeck 2008 - Histology: a text and atlas, Eds Ross and Pawlina, Lippincott Williams and Wilkins, 2011
Other infos	The presence in practical class is compulsory. Any unjustified absence will be sanctioned.
Faculty or entity in charge	VETE

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Veterinary Medicine	VETE1BA	8	LVET1241A AND LVET1295 AND LBIO1237 AND LBIO1234	