

<b>Academic subject:</b> Histology and Applied Anatomy of Domestic Animals			
<b>Degree Class:</b> L-38		<b>Degree Course:</b> Animal Sciences	
		<b>Academic Year:</b> 2020/2021	
		<b>Kind of class:</b> Mandatory	
		<b>Year:</b> I	<b>Period:</b> II semester
		<b>ECTS: 8</b> divided into <b>ECTS lessons: 7</b> <b>ECTS</b> <b>exe/lab/tutor: 1</b>	
<b>Time management, hours, in-class study hours, out-of-class study hours</b> lesson: 70    exe/lab/tutor: 25    in-class study: 0    out-of-class study: 105			
<b>Language:</b> Italian		<b>Compulsory Attendance:</b> Yes	
<b>Subject Teacher:</b> Prof. Aldo Corriero		<b>Tel:</b> +390805033461; +39 3406576526 <b>e-mail:</b> aldo.corriero@uniba.it	
		<b>Office:</b> Department of Emergency and Organ Transplantation.  Room      Floor	
		<b>Office days and hours:</b> Wednesday 3:30-530 p.m. Friday 11.30 a.m.-1:30 p.m.	
<b>Prerequisites:</b> The teaching course of Structural and Metabolic Biochemistry is preparatory to the exam of Zoology, Histology and Anatomy.			
<b>Educational objectives:</b> The teaching course of Histology and Applied Anatomy of Domestic Animals provides basic elements regarding the comparative macro- and microscopic anatomy of domestic animals taught from an applicative perspective.			
<b>Expected learning outcomes (according to Dublin Descriptors)</b>		<p><b>Knowledge and understanding:</b> knowledge of the basic elements regarding animal tissues and micro and macro-anatomical structure of domestic animals and awareness of the investigation techniques used in the field of morphological sciences. Basic elements needed for the study of physiology and professional disciplines.</p> <p><b>Applying knowledge and understanding:</b> Organ recognition and anatomical description.</p> <p><b>Making judgements:</b> The knowledge of the normal anatomy will allow graduates in Animal Sciences to identify possible pathological conditions that need to be submitted to the evaluation of a veterinarian.</p> <p><b>Communication:</b> the teaching course provides a comprehensive knowledge of the anatomical terminology.</p> <p><b>Lifelong learning skills:</b> the knowledge of the anatomical terminology and of the anatomical description methods will allow graduates in Animal Sciences to address a more in-depth study of specific organs and systems as well as to autonomously study the anatomy of animals species not included in the teaching course.</p>	
<b>Course program</b> Histology: covering and lining epithelia; glandular epithelium; connective tissue proper; cartilage; bone; blood; skeletal muscle; cardiac muscle; smooth muscle; nervous muscle. Anatomical terminology. Body regions. Osteology: divisions of the skeletal system; axial skeleton; appendicular skeleton. Arthrology: classification of joints; joints of the head, spine, thorax, shoulder, thoracic limb, pelvic grid, pelvic limb. Myology: structure of skeletal muscles; muscles of the head, neck, thorax, abdomen, shoulder, thoracic limb, pelvis, pelvic limb. Integumentary apparatus: skin and cutaneous annexes. Splanchnology: body cavities and serous membranes. Digestive system: mouth; pharynx; oesophagus; stomach; intestine; liver; pancreas. Respiratory system: nasal cavities; bronchi; lungs; pleurae. Blood circulatory system: heart; arteriae; venae. Lymphatic system: haemolymph nodes; spleen; thymus; bone marrow. Urinary system: kidneys; ureters; urinary bladder; and urethra. Male reproductive system: testis; epididymis; vas deferens; spermatic cord; scrotum; accessory glands; penis. Female			

reproductive system: ovary; oviducts; uterus; vagina; vulva; clitoris. Endocrine system: hypophysis; pineal gland; thyroid gland; parathyroid glands; adrenal glands; pancreas. Central Nervous System: spinal cord; brain. Peripheral and Autonomous Nervous System. Sense organs.

**Teaching methods:** Frontal lectures will be carried out through Powerpoint presentations in classrooms provided with multimedial devices. Practical lectures will be carried out partly using video tutorial produced by the teachers or available in the web and partly through the use of original or plastic models available in the anatomy room. Organs taken from local slaughterhouse might also be used.

**Auxiliary teaching:** Lab coats, gloves, caps.

**Assessment methods:** the assessment will involve both a practical and a theoretical interview. During the practical examination, the student will be required to identify skeletal elements and/or organs. The theoretical examination will involve a discussion on one or more topics included in the study program. The correct use of the anatomical terminology will be required.

The evaluation acquired in this course, together with that of “Zoology and cellular biology”, will contribute to the determination of the final evaluation of integrated course of “Zoology, Histology and Anatomy”.

**Bibliography:**

Bortolami - Callegari - Beghelli - Anatomia e fisiologia degli animali domestici. Edagricole.

Pelagalli-Botte. Anatomia veterinaria sistematica e comparata. Edi-Ermes.

Lecture ppt files and lecture notes.